



香 港 大 學  
**THE UNIVERSITY OF HONG KONG**

**CURRICULUM VITAE**  
**OF**  
**JASON PUI YIN CHEUNG**

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## I. PERSONAL DETAILS

### i. PERSONAL DATA

Name: CHEUNG, Jason Pui Yin (鍾培言)

Date of Birth: 29 September 1982

### ii. PRESENT POSITION

Department Chairperson (from Dec 1, 2021)

Clinical Associate Professor, Honorary Consultant

Division of Spine Surgery, Department of Orthopaedics and Traumatology, The University of Hong Kong

Office address: 5/F Professorial Block, Department of Orthopaedics and Traumatology, Queen Mary Hospital, Hong Kong

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ORCID: 000-0002-7052-0875

### iii. EDUCATION

1996-1998 Hong Kong International School, Hong Kong

1998-2001 Phillips Academy Andover, USA

2001-2002 Boston College, USA

### iv. ACADEMIC QUALIFICATIONS

2002-2007 The University of Hong Kong  
Bachelor of Medicine and Surgery (**MBBS**) (2007)

2010-2012 The University of Hong Kong  
Master of Medical Sciences (**MMedSc**) (2012)  
Thesis: Biomechanical comparative study of the JuggerKnot™ soft

Updated: Mar 9<sup>th</sup> 2022

- anchor technique with other common mallet finger fracture fixation techniques
- 2016-2017 The University of Hong Kong  
Master of Surgery (**MS**) (2017)  
Thesis: Bridging the knowledge gaps in adolescent idiopathic scoliosis: an emphasis on growth, flexibility and outcome measures
- 2016-2018 The University of Hong Kong  
Postgraduate Diploma in Molecular and Diagnostic Pathology (**PDipMDPath**)
- 2018-2019 The University of Hong Kong  
Doctor of Medicine (**MD**)  
Thesis: Developmental spinal stenosis: from bedside to bench (**Sir Patrick Manson Gold Medal 2019**)
- 2019-2021 The University of Hong Kong  
Master of Education (**MEd**)

#### v. PROFESSIONAL QUALIFICATIONS

- 2009 Hong Kong Academy of Medicine  
Member of the Hong Kong Intercollegiate Board of Surgical Colleges (**MHKICBSC**)
- 2009 The Royal College of Surgeons of Edinburgh  
Member of the Royal College of Surgeons (**MRCs(orth)**)
- 2014 Hong Kong Academy of Medicine  
Fellow of the Hong Kong Academy of Medicine (**FHKAM(orth)**)
- 2014 The Royal College of Surgeons of Edinburgh  
Fellow of the Royal College of Surgeons (**FRCS(orth)**)
- 2014 The Hong Kong College of Orthopaedic Surgeons  
Fellow of the Hong Kong College of Orthopaedic Surgeons (**FHKCOS(Edin)**)

#### vi. HONORARY APPOINTMENTS

- 2022-2024 **Adjunct Professor of Biomedical Engineering**, The Hong Kong Polytechnic University
- 2012-2014 Honorary Resident, Department of Orthopaedics and

	Traumatology, The Hong Kong West Cluster of Hospitals, Hospital Authority
2014-2018	Honorary Resident Specialist, Department of Orthopaedics and Traumatology, The Hong Kong West Cluster of Hospitals, Hospital Authority
2018-2020	Honorary Associate Consultant, Department of Orthopaedics and Traumatology, The Hong Kong West Cluster of Hospitals, Hospital Authority
2020-	Honorary Consultant, Department of Orthopaedics and Traumatology, The Hong Kong West Cluster of Hospitals, Hospital Authority

#### vii. WORKING EXPERIENCES

1998-1999	Research Assistant, Department of Microbiology, Queen Mary Hospital
1998-2000	Research Assistant, Division of Vascular Surgery, Department of Vascular Surgery, Queen Mary Hospital
2001-2002	Assistant, Department of Medicine, Beth Israel Deaconess Medical Center, Boston, USA
2005	Surrogate patient for MRCP/HKCP Clinical Examination (PACES)
2005-2007	Research Assistant, Department of Psychiatry, Queen Mary Hospital
2007	House Officer: Departments of Orthopaedics and Traumatology, Surgery, Medicine, and Paediatrics and Adolescent Medicine, Queen Mary Hospital, Hong Kong
2008-2012	Resident, Department of Orthopaedics and Traumatology, The Hong Kong West Cluster of Hospitals, Hospital Authority
2012-2018	Clinical Assistant Professor, Department of Orthopaedics and Traumatology, The University of Hong Kong
2018-	Clinical Associate Professor, Department of Orthopaedics and Traumatology, The University of Hong Kong
2020-	Digital Health Laboratory lead ( <a href="http://www.aimed.hku.hk">www.aimed.hku.hk</a> )
12/2021-	Chairperson, Department of Orthopaedics and Traumatology, The University of Hong Kong

viii. ACHIEVEMENTS AND AWARDS

- 2021 **Best Poster Award**  
41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association  
The novel Proximal Femur Maturity Index for patients with idiopathic scoliosis
- 2021 **Best Spine Paper Award**  
41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association  
Local experience with anterior vertebral body tethering for scoliosis in Hong Kong: Kenny Yat Hong Kwan, Jocelyn Ip, Giselle Li, Jason Pui Yin Cheung, Kenneth Man Chee Cheung
- 2021 **Global Spine Journal Best Paper 2020: The Impact of COVID-19 Pandemic on Spine Surgeons Worldwide (Nov 6 2021)**
- 2021 **John H. Moe Best Basic Research Poster**  
SRS Annual Meeting 2021: 207. Screw Malalignment May Explain Cord Rupture in Vertebral Body Tethering: A Finite Element Analysis. Wanis Nafo, Kenny Y. Kwan, Jason Pui Yin Cheung, Kenneth MC Cheung
- 2021 **The Best Paper in Orthopaedic Rehabilitation Award**  
**15<sup>th</sup> Rehabilitation Symposium cum 7<sup>th</sup> Sir Harry Fang Oration: Multidisciplinary Management of Musculoskeletal Pain**  
Factors affecting pain and disability in people with chronic low back pain. Pinto SM, Zheng YP, Pang MYC, Cheung JPY, Karppinen J, Samartzis D, Wong AYL.
- 2021 **APOA Spine Section Award Winner**  
Population-Based Analysis of The Clinical Implications of Lumbar Developmental Spinal Stenosis
- 2021-2023 **Spine Subspecialty Committee (SICOT)**
- 2022 **APSS Hong Kong Board Member**
- 2019 **AOSpine Asia Pacific Regional Research Chairman**
- 2018 **Asia-Pacific Representative (ISSLS)**
- 2017 **Founder and Chairman (2017-2020) of the Research Committee of the Asia Pacific Spine Society**
- 2016 **AOSpine East Asia Research Officer**
- 2016 **APOA-SICOT Spine Fellowship**  
Aarhus, Denmark
- 2016 **Young Ambassador Award**

- Asia Pacific Orthopaedic Association
- 2020 **Best Poster Award**  
40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association  
Using the ulna physis in improving decision-making for brace weaning in adolescent idiopathic scoliosis
- 2020 **People's Choice Award (3<sup>rd</sup> Annual Sydney Spinal Symposium 2020): Accurate body appearance detections and "non-radiation" X-ray synthesis using artificial intelligence and depth-sensing technologies**
- 2019 **Sir Patrick Manson Gold Medal (MD Thesis)**
- 2019 **2019 Prize for Best Original Research by Young Fellows (Hong Kong Academy of Medicine)**  
Curve progression in adolescent idiopathic scoliosis does not match skeletal growth (Clin Orthop Relat Res 2018;476:429-436)
- 2019 **Best Spine Paper Award (39<sup>th</sup> HKOA Annual Congress)**  
Predictors of flatback deformity during brace treatment for adolescent idiopathic scoliosis: influence of spinopelvic parameters
- 2019 **SOSORT Best Paper Award**  
Are lung functions related to spinal deformities in patients with adolescent idiopathic scoliosis? A systematic review and meta-analysis
- 2018 **Early Promotion and Tenure to Clinical Associate Professor (The University of Hong Kong)**
- 2018 **Outstanding English Paper Award (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society 2018)**  
EN-2-C-4 Anterior correction of the thoracolumbar or lumbar adolescent idiopathic scoliosis (AIS): report on short fusion
- 2018 **Outstanding English Paper Award (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society 2018)**  
EN-2-D-1 Predictors of postoperative shoulder imbalance in selective thoracic fusion for adolescent idiopathic scoliosis: impact of fulcrum flexibility
- 2018 **Trainee Prize Dr. Thomas Ka Chun Leung (38<sup>th</sup> HKOA Annual Congress)**  
Is cervical collar useful after laminoplasty? A randomized controlled trial
- 2018 **Ambassador**  
The 91<sup>st</sup> Annual Meeting of the Japanese Orthopaedic Association

- 2018 **Best Paper (ISSLS 2018, Banff, Canada)**  
Does lumbar disc degeneration predict facet joint changes or vice versa? A 5 year prospective MRI study
- 2017 **SICOT Young Investigator Award**  
“Predicting curve progression at skeletal maturity in adolescent idiopathic scoliosis using the distal radius and ulna classification”
- 2017 **APSS-ASJ Best Clinical Research Award**  
“Predictability of curve progression in adolescent idiopathic scoliosis using the distal radius and ulna classification”
- 2017 **AR Hodgson Award**  
“Matching curve progression with skeletal growth in adolescent idiopathic scoliosis: insight into the best period for brace treatment”
- 2017 **Paediatric Orthopaedics Award 1<sup>st</sup> prize**  
“Matching curve progression with skeletal growth in adolescent idiopathic scoliosis: insight into the best period for brace treatment”
- 2017 **Ambassador**  
Singapore Orthopaedic Association Annual Congress
- 2016 **Paediatric Orthopaedics Award 2<sup>nd</sup> prize**  
“Characterisation and predictive value of segmental curve flexibility in adolescent idiopathic scoliosis patients”
- 2016 **ISSLS Clinical Prize**  
“Clinical consensus on the clinical diagnosis of lumbar spinal stenosis: results of an international Delphi study”
- 2016 **APSS Best Paper Award First Prize Oral Presentation**  
“Predictability of peak growth spurt and growth cessation using the distal radius and ulna classification”
- 2016 **APSS Best Spine Paper Award**  
“Five year longitudinal MRI follow-up of a population based cohort of subjects with ossified yellow ligament: a natural history study”
- 2015 **Trainee Prize Dr. Chris Tang (35<sup>th</sup> HKOA Annual Congress)**  
“5-Year Longitudinal Magnetic Resonance Imaging Follow-up of a Population-based Cohort of Subjects with Ossified Yellow Ligament: A natural history study”
- 2014 **Gold Medal (2014 Prize for Best Original Research by Trainees: Hong Kong Academy of Medicine)**



- “Genetic predisposition of lumbar spinal stenosis in Chinese: A genome-wide association study”
- 2014 **Ambassador**  
British Orthopaedic Association Annual Congress
- 2013 **AR Hodgson Award**  
“Prediction of lumbar spinal stenosis in Chinese: Findings from a genome-wide association study”
- 2013 **Research Output Prize**  
“Magnetically controlled growing rods for severe spinal curvature in young children: a prospective case series”
- 2013 **Ambassador**  
New Zealand Orthopaedic Association Annual Congress
- 2013 **Gold Medal (2013 Prize for Best Original Research by Trainees: Hong Kong Academy of Medicine)**  
“Verifying and defining developmental spinal stenosis: An MRI-based study”
- 2013 **English Poster Award Finalist**  
42<sup>nd</sup> Annual Meeting of the Japanese Society for Spine Surgery and Related Research  
“Developmental spinal stenosis in the Chinese population: presence in patients and redefining critical values on MRI”
- 2012 **Gold Medal (2012 Prize for Best Original Research by Trainees: Hong Kong Academy of Medicine)**  
“Biomechanical comparative study of the JuggerKnot<sup>TM</sup> soft anchor technique with other common mallet finger fracture fixation techniques”
- 2012 **Arthur Yau Award**  
“Developmental spinal stenosis in the Chinese population: presence in patients and redefining critical values on MRI”
- 2012 **SP Chow Orthopaedic Contest Project Presentation Winner**
- 2011 **Arthur Yau Award**  
“Use of a remotely distractible, magnetic controlled growing rod for the treatment of scoliosis in young children”
- 2011 **Finalist for 2010 APOA-Pfizer Best Scientific Paper Award for Orthopaedic Infection**  
“166 cases of Mycobacterium Marinum Tenosynovitis of the Hand and Wrist: Clinical Features, Management and Results”
- 2010 **Best Paper Award (23<sup>rd</sup> Annual Congress of the Hong Kong**

**Society for Surgery of the Hand)**

“Prognostic factors of Mycobacterium Marinum infection of the hand and wrist”

2007

**Woo Kai Fun Prize in Clinical Neurology**

“Avoiding hemorrhagic transformation in stroke management”

2006

**Young Scientist Award**

13<sup>th</sup> Biennial Winter Workshop on Schizophrenia Research

2006

**Hong Kong College of Physicians Medical Student Essay Award (Champion)**

“Stroke: the incessant pursuit of optimal therapeutic strategies”

2005

**Hong Kong College of Physicians Medical Student Essay Award (Runner-up)**

“Depressive disorder: under-recognized and under-appreciated”

ix. PATENTS

Lumbar spine anatomical annotation based on magnetic resonance images using artificial intelligence

(US Provisional Application)

Docket # 04435/010072-US0

Application #63/217,157 (6/30/2021)

Inventors: Xihe Kuang, **Jason PY Cheung**, Teng Zhang

Non-contact, non-radiation device that accurately locates multiple implants in a patient’s body

(US Provisional Application)

Docket # 04435/010216-US0

Application # 63/233,526 (08/16/2021)

Inventors: Qi Weichen, Zhang Teng, **Cheung Jason Pui Yin**

Customizable wearable top to treat scoliosis in a person

Pub. No. US 2021/0059849 A1

Pub date: Mar. 4, 2021

Inventors: Yip, Yiu-Wan Joanne; Fung, Ho-Yi Olivia; Yick, Kit-Lun; Tse, Chi-Yung; Cheung, Man-Chee Kenneth; Kwan, Yat-Hong Kenny; **Cheung, Pui-Yin Jason**; Ng, Sun-Pui

## **II. RESEARCH ACTIVITIES**

**H-Index: 23 (SCI); Total citations: 2249 by 1552 articles (Scopus)**

**H-Index: 26; Total Citations: 2731; i10-index: 81 (Google Scholar)**

(Impact factor/IF by 2-year 2017 InCites (IC) or Scopus CiteScore (CS))

### **i. TOP 20 REPRESENTATIVE PUBLICATIONS**

1. Wu H, Shan Z, Zhao FD, **Cheung JPY**. Poor Bone Quality, Multilevel Surgery, and Narrow and Tall Cages Are Associated with Intraoperative Endplate Injuries and Late-onset Cage Subsidence in Lateral Lumbar Interbody Fusion : A Systematic Review. Clin Orthop Relat Res. 2021. [Epub]. Doi : 10.1097/CORR.0000000000001915.
2. Cheung PWH, **Cheung JPY**. Does the Use of Sanders Staging and Distal Radius and Ulna Classification Avoid Mismatches in Growth Assessment with Risser Staging Alone ?. Clin Orthop Relat Res. 2021. [Epub] Doi : 10.1097/CORR.0000000000001817.
3. Lai M, Cheung PWH, Samartzis D, Karppinen J, Cheung KMC, **Cheung JPY**. The profile of the spinal column in subjects with lumbar developmental spinal stenosis. Bone Joint J. 2021 ;103-B(4) :725-733. Doi : 10.1302/0301-620X.103B4.BJJ-2020-1792.R1.
4. Lai MKL, Cheung PWH, Samartzis D, Karppinen J, Cheung KMC, **Cheung JPY**. Clinical implications of lumbar developmental spinal stenosis on back pain, radicular leg pain, and disability. Bone Joint J. 2021 ;103-B(1) :131-140. Doi : 10.1302/0301-620X.103B1.BJJ-2020-1186.R2.
5. Cheung PWH, **Cheung JPY**. Sanders stage 7b : Using the appearance of the ulnar physis improves decision-making for brace weaning in patients with adolescent idiopathic scoliosis. Bone Joint J. 2021 ;103-B(1) : 141-147. Doi : 10.1302/0301-620X.103B1.BJJ-2020-1240.R1.
6. Zhang T, Sze KY, Peng ZW, Cheung KMC, Lui YF, Wong YW, Kwan KYH, **Cheung JPY**. Systematic investigation of metallosis associated with magnetically controlled growing rod implantation for early-onset scoliosis. Bone Joint J. 2020 ;102-B(10) :1375-1383. Doi : 10.1302/0301-620X.102B10.BJJ-2020-0842.R1.
7. **Cheung JPY**, Fong HK, Cheung PWH. Predicting spondylolisthesis correction with prone traction radiographs. Bone Joint J. 2020 ;102-B(8) :1062-1071. Doi : 10.1302/0301-620X.102B8.BJJ-2020-0528.R1.
8. Cheung PWH, Wong CKH, **Cheung JPY**. Comparative Study of the Use of

- Paediatric Quality of Life Inventory 4.0 Generic Core Scales in Paediatric Patients with Spine and Limb Pathologies. *Bone Joint J.* 2020 ;102-B(7) :890-898. Doi : 10.1302/0301-620X.102B7.BJJ-2019-1766.R2.
9. **Cheung JPY**, Cheung PWH. Supine flexibility predicts curve progression for patients with adolescent idiopathic scoliosis undergoing underarm bracing. *Bone and Joint Journal.* 2020 ;102-B(2) :254-260. Doi : 10.1302/0301-620X.102B2.BJJ-2019-0916.R1.
  10. **Cheung JPY**, Cheung PWH, Yeng WC, Chan LCK. Does curve regression occur during underarm bracing in patients with adolescent idiopathic scoliosis ? *Clin Orthop Relat Res.* 2020 ;478(2) :334-345. Doi : 10.1097/CORR.0000000000000989.
  11. **Cheung JPY**, Chong CHW, Cheung PWH. Underarm bracing for adolescent idiopathic scoliosis leads to flatback deformity : the role of sagittal spinopelvic parameters. *Bone Joint J.* 2019 ;101-B(11) :1370-1378. Doi : 10.1302/0301-620X.101B11.BJJ-2019-0515.R1.
  12. **Cheung JPY**, Cheung PWH, Luk KD. When should we wean bracing for adolescent idiopathic scoliosis ? *Clin Orthop Relat Res.* 2019 ;477(9) :2145-2157. doi : 10.1097/CORR.0000000000000781.
  13. Tsang HHL, **Cheung JPY**, Wong CKH, Cheung PWH, Lau CS, Chung HY. Psychometric validation of the EuroQol 5-dimension (EQ-5D) questionnaire in patients with spondyloarthritis. *Arthritis Res Ther.* 2019 ;21(1) :41.
  14. Cheung PWH, Fong HK, Wong CS, **Cheung JPY**. The influence of developmental spinal stenosis on the risk of re-operation on an adjacent segment after decompression-only surgery for lumbar spinal stenosis. *Bone Joint J.* 2019 ;101-B(2) : 154-161. Doi : 10.1302/0301-620X. 101B2.BJJ-2018-1136.R2.
  15. Wong AYL, Samartzis D, Cheung PWH, **Cheung JPY**. How common is back pain and what biopsychosocial factors are associated with back pain in patients with adolescent idiopathic scoliosis ? *Clin Orthop Relat Res.* 2019 ; 477(4) : 676-686. Doi : 10.1097/CORR.0000000000000569.
  16. **Cheung JPY**, Cheung PWH, Law K, Borse V, Lau YM, Mak LF, Cheng A, Samartzis D, Cheung KMC. Postoperative rigid cervical collar leads to less axial neck pain in the early stage after open-door laminoplasty – A single-blinded randomized controlled trial. *Neurosurgery.* 2019 ;85(3) : 325-334. Doi : 10.1093/neuros/nyy359.
  17. **Cheung JPY**, Yiu K, Kwan K, Cheung KMC. Mean 6-year follow-up of magnetically controlled growing rod patients with early onset scoliosis : A glimpse of what happens to graduates. *Neurosurgery.* 2019 ;84(5) : 1112-1123.

Doi : 10.1093/neuros/nyy270.

18. **Cheung JPY**, Cheung PW, Samartzis D, Luk KD. Curve progression in adolescent idiopathic scoliosis does not match skeletal growth. *Clin Orthop Relat Res.* 2018 ;476(2) : 429-436. Doi : 10.1007/s11999.0000000000000027.
19. **Cheung JPY**, Cheung PW, Samartzis D, Cheung KM, Luk KD. The use of the distal radius and ulna classification for the prediction of growth : peak growth spurt and growth cessation. *Bone Joint J.* 2016 ;98-B(12) :1689-1696.
20. Cheung KMC, **Cheung JPY**, Samartzis D, Mak KC, Wong YW, Cheung WY, Akbarnia BA, Luk KDK. Magnetically controlled growing rods for severe spinal curvature in young children : a prospective case series. *Lancet.* 2012 May 26 ;379(9830) :1967-74. Doi: 10.1016/S0140-6736(12)60112-3. Epub 2012 Apr 19.

## ii. PEER-REVIEWED JOURNAL PUBLICATIONS (n=215)

1. Weiner JA, Swiatek PR, Johnson DJ, Louie PK, Harada GK, McCarthy MH, Gernscheid N, **Cheung JPY**, Neva MH, El-Sharkawi M, Valacco M, Sciubba DM, Chutkan NB, An HS, Samartzis D. Spine Surgery and COVID-19 : The Influence of Practice Type on Preparedness, Response, and Economic Impact. *Global Spine J.* 2022 ;12(2) :249-262. Doi : 10.1177/2192568220949183.  
(IF IC: 2.683, Citation: 1, 5% contribution)
2. **Cheung JPY**, Bow C, Cheung KMC. “Law of Temporary Diminishing Gains”: The Phenomenon of Temporary Diminished Distraction Lengths with Magnetically Controlled Growing Rods that is Reverted with Rod Exchange. *Global Spine J.* 2022 ;12(2) :221-228. Doi : 10.1177/2192568220948475.  
(IF IC: 2.683, Citation: 3, first and corresponding author, 70% contribution)
3. Tamai H, Teraguchi M, Hashizume H, Oka H, **Cheung JPY**, Samartzis D, Muraki S, Akune T, Kawaguchi H, Nakamura K, Tanaka S, Yoshida M, Yoshimura N, Yamada H. A Prospective, 3-year Longitudinal Study of Modic Changes of the Lumbar Spine in a Population-based Cohort : The Wakayama Spine Study. *Spine.* 2022 ;47(6) :490-497. DOI : 10.1097/BRS.0000000000004301.  
(IF IC: 2.646, Citation: 0, 5% contribution)
4. Shea GHK, Zhang C, Suen WS, Cheung PWH, **Cheung JPY**, Maatta J, Karppinen J, Samartzis D. Oral Zoledronic acid bisphosphonate for the treatment of chronic low back pain with associated Modic changes : a pilot randomized controlled trial. *J Orthop Res.* 2022. [Epub]. Doi : 10.1002/jor.25304.

(IF IC: 2.728, Citation: 0, 10% contribution)

5. Iyer S, Bovonratwet P, Samartzis D, Schoenfeld AJ, An HS, Awwad W, Blumenthal SL, **Cheung JPY**, Derman PB, El-Sharkawi M, Freedman BA, Hartl R, Kang JD, Kim HJ, Louie PK, Ludwig SC, Neva MH, Pham MH, Phillips FM, Qureshi SA, Radcliff KE, Riew KD, Sandhu HS, Sciubba DM, Sethi RK, Valacco M, Zaidi HA, Zygorakis CC, Makhni MC. Appropriate Telemedicine Utilization in Spine SurgeryL Results From a Delphi Study. Spine. 2022.[Epub]. Doi : 10.1097/BRS.0000000000004339.

(IF IC: 2.646, Citation: 0, 2% contribution)

6. Lin J, Wong CKH, **Cheung JPY**, Cheung PWH, Luo N. Psychometric performance of proxy-reported EQ-5D youth version 5-level (EQ-5D-Y-5L) in comparison with three-level (EQ-5D-Y-3L) in children and adolescents with scoliosis. Eur J Health Econ 2022. Doi : 10.1007/s10198-022-01435-z.

(IF IC: 3.689, Citation: 0, corresponding author, 25% contribution)

7. Liang R, Yip J, Fan YL, **Cheung JPY**, To KTM. Electromyographic Analysis of Paraspinal Muscles of Scoliosis Patients Using Machine Learning Approaches. Int J Environ Res Public Health 2022 ; 19 : 1177. Doi : 10.3390/ijerph19031177.

(IF IC: 3.39, Citation: 0, 10% contribution)

8. Cheung PWH, Canavese F, Chan CYW, Wong JSH, Shigematsu H, Luk KDK, **Cheung JPY**. The Utility of a Novel Proximal Femur Maturity Index for Staging Skeletal Growth in Patients with Idiopathic Scoliosis. J Bone Joint Surg Am. 2022.[Epub]. Doi : 10.2106/JBJS.21.00747.

(IF IC: 5.284, Citation: 0, corresponding author, 40% contribution)

9. Meng N, **Cheung JPY**, Wong KK, Dokos S, Li S, Choy RW, To S, Li RJ, Zhang T. An artificial intelligence powered platform for auto-analyses of spine alignment irrespective of image quality with prospective validation. EClinicalMedicine. 2022 ;43 :101252. Doi : 10.1016/j.eclinm.2021.101.252. eCollection 2022 Jan.

(IF IC: 3.49, Citation: 0, co-first author, 25% contribution)

10. Wu H, Shan Z, Zhao FD, **Cheung JPY**. Poor Bone Quality, Multilevel Surgery, and Narrow and Tall Cages Are Associated with Intraoperative Endplate Injuries and Late-onset Cage Subsidence in Lateral Lumbar Interbody Fusion : A Systematic Review. Clin Orthop Relat Res. 2022 ;480(1) :163-188. Doi : 10.1097/CORR.0000000000001915.

(IF IC: 4.329, Citation: 3, corresponding author, 50% contribution)

11. Lin Y, **Cheung JPY**, Chan CK, Wong SWF, Cheung KMC, Wong M, Wong WC, Cheung PWH, Wong MS. A randomized controlled trial to evaluate the clinical

effectiveness of 3D-Printed Orthosis in the management of adolescent idiopathic scoliosis. *Spine*. 2022 ;47(1) :13-20. Doi : 10.1097/BRS.00000000000004202.

(IF IC: 2.646, Citation: 0, 10% contribution)

12. Zhang CM, Lee VKH, Yu JML, **Cheung JPY**, Koljonen PA, Shea GKH. Length of Cervical Stenosis, Admission ASIA Motor Scores, and BASIC Scores are Predictors of Recovery Rate Following Central Cord Syndrome. *Spine*. 2022 ;47(3) :212-219. Doi : 10.1097/BRS.00000000000004178.

(IF IC: 2.646, Citation: 0, 5% contribution)

13. Lam CLK, Tse ETY, Wong CKH, Lam JSM, Chen SS, Bedford LE, **Cheung JPY**, Or CK, Kind P. A pilot study on the validity and psychometric properties of the electronic EQ-5D-5L in routine clinical practice. *Health Qual Life Outcomes*. 2021 ;19 :266. Doi : 10.1186/s12955-021-01898-3.

(IF IC: 2.344, Citation: 0, 5% contribution)

14. Lau KKL, Law KKP, Kwan KYH, **Cheung JPY**, Cheung KMC, Wong AYL. Timely Revisit of Proprioceptive Deficits in Adolescent Idiopathic Scoliosis : A Systematic Review and Meta-Analysis. *Global Spine J*. 2021. Doi : 10.1177/21925682211066824. [Epub]

(IF IC: 2.683, Citation: 0, 10% contribution)

15. Gernscheid N, **Cheung JPY**, Neva MH, Oner FC, Kwon BK, Valacco M, Awwad W, Sciubba DM, Lewis SJ, Rhines LD, Yoon ST, Alini M, Grad S, Fisher CG, Samartzis D. Research Practices and Needs Among Spine Surgeons Worldwide. *Global Spine J*.2021. Doi : 10.1177/21925682211058158. [Epub]

(IF IC: 2.683, Citation: 0, 5% contribution)

16. Teraguchi M, Hashizume H, Oka H, **Cheung JPY**, Samartzis D, Tamai H, Muraki S, Akune T, Tanaka S, Yoshida M, Yoshimura N, Yamada H. Detailed subphenotyping of lumbar Modic changes and their association with low back pain in a large population-based study : The Wakayama Spine Study. *Pain Ther*. 2021 ;11(1) :57-71. Doi : 10.1007/s40122-021-00337-x.

(IF IC: 5.725, Citation: 0, 5% contribution)

17. Wu H, **Cheung JPY**, Zhang T, Shan Z, Zhang XY, Liu JH, Fan SW, Zhao FD. The Role of Hounsfield Unit in Intraoperative Endplate Violation and Delayed Cage Subsidence with Oblique Lateral Interbody Fusion. *Global Spine J*. [In Press]. Doi : 10.1177/21925682211052515.

(IF IC: 2.683, Citation: 0, first and corresponding author, 40% contribution)

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### iii. PUBLISHED FEEDBACK/IMPACT ON OWN PUBLICATIONS

1. Mendoza-Lattes SA. *CORR Insights®* : Poor Bone Quality, Multilevel Surgery, and Narrow and Tall Cages Are Associated with Intraoperative Endplate Injuries and Late-onset Cage Subsidence in Lateral Lumbar Interbody Fusion : A Systematic Review. *Clin Orthop Relat Res.* 2021 ;480(1) :189-90. Doi : 10.1097/CORR.0000000000002061.
2. Duren DL. *CORR Insights®* : Does the Use of Sanders Staging and Distal Radius and Ulna Classification Avoid Mismatches in Growth Assessment with Risser Staging Alone ?. *Clin Orthop Relat Res.* 2021 ;00 :1-3. Doi : 10.1097/CORR.0000000000001880.
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5. Leopold SS. Editor's Spotlight/Take 5 : How Common Is Back Pain and What Biopsychosocial Factors Are Associated With Back Pain in Patients With Adolescent Idiopathic Scoliosis ?. *Clin Orthop Relat Res.* 2019 ;477 :672-675. Doi : 10.1097/CORR.0000000000000689.
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7. Reinker KA. *CORR Insights®* : Preventing Fusion Mass Shift Avoids Postoperative Distal Curve Adding-on in Adolescent Idiopathic Scoliosis. *Clin Orthop Relat Res.* 2017 ;475 :1461-1462. Doi : 10.1007/s11999-017-5256-2.
8. Kwan K. Editorial : Advances in the treatment of early-onset scoliosis ?. *Journal of Orthopaedic Surgery.* 2015 ;23(3) :277.
9. Pang H, Chen QB, Xu JZ. Magnetically controlled growing rods for scoliosis in children. *Lancet* 2012 ;380(9849) :1228. Doi : 10.1016/S0140-6736(12)61711-5.
10. Armoiry X, Abelin-Genevois K, Charroin C, Aulagner G, Cunin V. Magnetically controlled growing rods for scoliosis in children. *Lancet.* 2012 ;380(9849) :1229. Doi : 10.1016/S0140-6736(12)61713-9.

### iv. BOOKS AND BOOK CHAPTERS

1. EDITOR IN-CHIEF (AOSpine e-book)

2. **Cheung JPY**, Cheung KMC. Magnetically Controlled Growing Rods (MCGR) 磁控生长棒. Pediatric Spine (Chinese)
3. **Cheung JPY**, Koljonen PA, Luk KDK. Chapter 41: Surgical complications with the posterior approach. Nontraumatic cervical myelopathy: pathologies, surgical techniques, and nuances. Nova publishers
4. **Cheung JPY**, Luk KDK. Lessons learnt from MRC trials. Association of Spine Surgeons of India (ASSI) monograms. Thieme publishers.
5. Aiyer, SN, **Cheung JPY**. Kummell's disease in the setting of severe osteoporosis – traditional sublaminar wiring techniques still have a role in modern instrumentation. Challenging cases in back and low back pain (2<sup>nd</sup> Ed).
6. Aiyer, SN, **Cheung JPY**. Pott's paraparesis of late onset caused by an angular kyphotic deformity. Challenging cases in back and low back pain (2<sup>nd</sup> Ed).
7. **Cheung JPY**, Nelson S, Sanders JO, El-Hawary R. Chapter 180 Early Onset Scoliosis. Evidence Based Orthopedics (EBO) Section 10: Pediatrics, p1067-1073.
8. **Cheung JPY**, Luk KDK. The modified anterior approach to the cervicothoracic junction. Textbook of Spinal Surgery.
9. **Cheung JPY**, Cheung KMC. Basic concepts in genetics and intervertebral disc degeneration and scoliosis. 7<sup>th</sup> Edition of Herkowitz-Rothman and Simeone: The Spine. Garfin SR, Eismont FJ, Bell GR, Fischgrund G, Bono C (Eds).
10. **Cheung JPY**, Luk KDK. Chapter 128: Complications of anterior and posterior cervical spine surgery. The Spine: Medical & Surgical Management, Volume 1&2. JayPee Brothers Medical Publishers. 2019.
11. **Cheung JPY**, Luk KDK. Updates on degenerative spondylolisthesis and spinal stenosis. Current Progress in Orthopedics v2. Johari A; Luk KDK; Waddell JP (Eds). TreeLife Media. 2017
12. **Cheung JPY**, Ruan DK, Luk KDK. Chapter 17: Total disc transplantation: current results and future development. Biological approaches to spinal disc repair and regeneration for clinicians. Hartl R & Bonassar LJ (Eds). New York: Thieme, 2017.
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14. Teraguchi M, **Cheung JPY**, Samartzis D. High-intensity zones. Textbook of spinal phenotypes. JayPee Brothers Publishing.
15. Cheung KMC, **Cheung JPY**. Decision Making in Adult Deformity surgery: Decompression versus short or long fusion. AOSpine Masters Series Volume 4, Adult spinal deformities. Thieme Medical Publishers, Inc. Vialle LR, Lenke LG, Cheung KMC (eds). Pages 12-27.
16. **Cheung JPY**, Karppinen J, Takatalo J, Wang H, Shen FH, Samartzis D: Cervical

degenerative disease. In Shen FH, Samartzis D, Fessler RG (eds): Textbook of the Cervical Spine. Philadelphia, Elsevier, 2014.

17. **Cheung JPY**, Samartzis D, Ruan D, Luk KDK: Intervertebral disc transplantation. In Shen FH, Samartzis D, Fessler RG (eds): Textbook of the Cervical Spine. Philadelphia, Elsevier, 2014.
18. **Cheung JPY**. 2010 IFSSH Hand Surgery (11<sup>th</sup> Congress of the International Federation of Societies for Surgery of the Hand) Edited by Moon Sang Chung, Goo Hyun Baek, Hyun Sik Gong, Koonja Publishing, Inc. 2010. Authored Pages: 68-69, 78-79, 908-913, 916-917.

v. INVITED LECTURES (n=52)

1. Magnetically Controlled Growth Rods (MCGR); Session II – Surgery and Implants: Why, When, How: All India Institute of Medical Sciences (AIIMS) International Spine Deformity (April 15, 2022)
2. Conducting Research in EOS: Unsolved Problems and Shifting of Goalposts; Session IV – Current Trends and Future Directions: All India Institute of Medical Sciences (AIIMS) International Spine Deformity (April 15, 2022)
3. Magnetically Controlled Growing Rod Surgery – background, tips, and complications: AO Spine in-League Advanced Webinar – Early-onset scoliosis & solutions (Mar 25, 2022)
4. Decision Making in Management of Scoliosis – Bracing Versus Surgery; APSS Medtronic Webinar, Asia Pacific Spine Society (Feb 20, 2022)
5. Single Position of Lateral Lumbar Surgery. Fall in Love with the Lumbar Spine, 2021 Season Finale, Lumbar Spine Research Group of Spinal Cord Professional Committee of China Rehabilitation Medical Organization in China. (Dec 19 2021)
6. APSS DePuy Synthes Spine Virtual Fellowship Program 2021: Lumbar Spine Surgery – Oblique Lumbar Interbody Fusion (OLIF) (Dec 2 2021)
7. The antepsoas approach to the lumbosacral spine (Nov 27 2021; Combined 60<sup>th</sup> Anniversary Scientific Meeting and 17<sup>th</sup> Hong Kong International Orthopaedic Forum)
8. Single position surgery: treatment of degenerative conditions for L1-S1 in the lateral position (Nov 16, 18 and 20 2021; Inexus CPD, Nuvasive at University of Hong Kong)
9. International case discussion AIS (Nov 6 2021; The 55<sup>th</sup> Annual Meeting of the Japanese Scoliosis Society)

10. In patients with osteoporosis receiving TLIF in L5S1: I will go down to ilium: AOSpine Advanced Seminar – Degenerative Lumbar Deformity, Degenerative Cervical Spine. Taipei, Taiwan (October 24, 2021)
11. Population-based cohort study shows increased radicular leg pain and disability with lumbar developmental spinal stenosis: The 65<sup>th</sup> Annual Congress of the Korean Orthopaedic Association (KOA) 2021 (October 14-16, 2021)
12. C1/2 fixation techniques (APSS-HKU Spine Course: 11 Sep 2021)
13. Posterior spinal fusion/bone graft, harvesting techniques (APSS-HKU Spine Course: 11 Sep 2021)
14. Hong Kong Experience in MCGR: The Egyptian Scoliosis Society in collaboration with Saudi Spine Society (30<sup>th</sup> July 2021)
15. The importance of plain radiography in spine surgery: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (30 July 2021)
16. Clinical implications of lumbar developmental spinal stenosis: 50<sup>th</sup> Malaysia Orthopaedic Association Annual General Meeting / Annual Scientific Meeting 2021, Virtual (June 22, 2021)
17. The direction of clinical research regarding adolescent idiopathic scoliosis in Asian countries: What can we do? & What should we prepare?: 13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan (June 11, 2021)
18. Post-irradiation upper cervical spine complications: 13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan (June 10, 2021)
19. Kyphoscoliosis in neurofibromatosis 神经纤维瘤患者脊柱后凸问题; Overgrowth and tumor-like conditions: Greater Bay Area – Skeletal Dysplasia Summit from Orthopaedic Perspectives 骨骼发育不良疾病大湾区骨外科高峰论坛 (Lecture on May 8, case discussion on May 9, 2021)
20. Frontiers in Medical and Health Sciences Education 2020: Medical Education Disrupted – Negativity or Creativity (November 27-28, 2020)
21. Scoliosis Research Society Worldwide Courses: Lateral approach for ASD (November 25, 2020)
22. TB spine – Department of Paediatrics Grand Round (November 5, 2020)
23. Pontifical Catholic University – Parana State Curitiba Brazil: Webinar on scoliosis = Distal level for thoracic curves / strategies for high degree curves (Fusion level selection in AIS – Role of the fulcrum-bending radiograph: June 15 2020)
24. NuVasive MAGEC meeting 2020 (Jan 7-8 2020): Faculty (MAGEC surgical technique, live surgery, intraop and postop complications and distraction

- techniques)
25. AOSpine Webinar: From the frontline: Web-Meeting: Navigating the COVID-19 Pandemic – From Crisis to the future (Results from the AOSpine Research Initiative: May 9 2020)
  26. AOSpine Asia Pacific Advanced Webinar – Decision Making in Adolescent Idiopathic Scoliosis (November 25 2019)
  27. How to be a good reviewer? (AOSpine Advanced Level Anatomical Specimen Course in Lumbar Minimally Invasive Spine Surgery, Sept 28 2019)
  28. Growth and maturation: clinical relevance to scoliosis (Korean Spinal Deformity Symposium, Seoul, Korea, Aug 23-24 2019)
  29. Magnetically controlled growing rods: what we learned over the past decade (Korean Spinal Deformity Symposium, Seoul, Korea, Aug 23-24 2019)
  30. C1/2 fixation techniques (APSS-HKU Basic Spine Course 2019; 25 May 2019)
  31. C1-C2 screw fixation for upper cervical fracture, Symposium: Trauma – Surgical treatment of spine fractures (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea)
  32. Meet the Masters: Cervical Spine 1 (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea)
  33. International Seminar - What is the best distraction frequency for magnetically controlled growing rods? – insight from a multi-center prospective study (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society)
  34. Predicting skeletal growth potential in adolescent idiopathic scoliosis (Asia Pacific Spine Society Annual Meeting in Taiwan 2018) – 8/6/2018
  35. Developmental lumbar spinal stenosis: what we know so far (Asia Pacific Spine Society Annual Meeting in Taiwan 2018) – 9/6/2018
  36. Mismatch between peak growth and curve progression: impact upon adolescent idiopathic scoliosis management (The 91<sup>st</sup> Annual Meeting of the Japanese Orthopaedic Association) 24/5/2018
  37. Developmental lumbar spinal stenosis – from bedside to bench (The 15<sup>th</sup> Hong Kong International Orthopaedic Forum) 22/4/2018
  38. Role of conservative management in adult spinal deformity; 2018 Lumbar Spine Surgery Workshop: Lectures & Hands-on Cadaveric Course 20/1/2018
  39. Long term results in adult spinal deformity treatment; 2018 Lumbar Spine Surgery Workshop: Lectures & Hands-on Cadaveric Course 20/1/2018
  40. Assessment of skeletal maturity: Current concepts in spine deformity SRS course, Shenzhen, China 13-15/10/2017

41. Cantilever & Differential Rod Contouring (Lunch symposium: Scoliosis correction techniques in adolescent idiopathic scoliosis; 11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery) 1/9/2017
42. Clinical indications and considerations (Lunch symposium: MAGEC rods – magnetic elongation of the spine; 11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery) 2/9/2017
43. Lumbar spinal stenosis and disc herniation (Lumbar spine surgery education 2017 organized by the Hong Kong College of Perioperative Nursing) 1/5/2017
44. Spondylolysis in dancers and lifters – should we rehabilitate or operated on them? (The 14<sup>th</sup> Hong Kong International Orthopaedic Forum) 1/4/2017
45. How to obtain iliac crest bone graft and what is a proper fusion? (APSS Basic Spine Course 2017) 1/1/2017
46. Complications of cervical spine surgery – How to avoid them? (APSS Basic Spine Course 2017) 1/1/2017
47. Updates in spine infection (The 13<sup>th</sup> Hong Kong International Orthopaedic Forum) 23/4/2016
48. 3D Phenotyping (International Consortium for Scoliosis Genetics, ICSG, Spineweek 2016, Singapore) 19/5/2016
49. Magnetically controlled growing rods-The Hong Kong Experience and Panel Discussion” Panel Discussion on Early Onset Scoliosis & Answers to your MAGEC® Questions from International Experts, Ellipse Technologies Inc. (The Marquette Hotel, 50<sup>th</sup> Annual Meeting & Course of the Scoliosis Research Society, Minneapolis, Minnesota, USA) 2/10/2015
50. “Pharmacological approach to cord preservation – dream or reality?” AOSpine Program-Cervical Spine Trauma. (36<sup>th</sup> SICOT Orthopaedic World Congress, Guangzhou, China) 17/9/2015
51. Developmental spinal stenosis: GWAS study on a southern Chinese population (British Orthopaedic Association Congress 2014) 10/1/2014
52. Verifying and defining developmental spinal stenosis: An MRI based study (2013 New Zealand Orthopaedic Association Annual Scientific Meeting) 10/1/2013



vi. CONFERENCE PAPERS (n=302)

**Internationally Organized Meetings (n=217)**

1. Immediate effects of posture correction girdle on adolescents with early scoliosis. (27 July 2022; Session 109, 13<sup>th</sup> International Conference on Applied Human Factors and Ergonomics (AHFE 2022))
2. Are rigid cervical collars necessary for patients undergoing open-door laminoplasty and titanium arch plates for cervical myelopathy? – a randomized pilot clinical trial (Abstract #95, Health Research Symposium 2021 organized by the Food and Health Bureau, The Government of the Hong Kong Special Administrative Region; 23 November 2021)
3. P172: Clinical implications of lumbar developmental spinal stenosis – back pain, radicular leg pain and disability with 2206 subjects (Nov 3-6 2021; Global Spine Congress 2021)
4. P062: The components of metallosis generated by magnetically controlled growing rods and their implications (Nov 3-6 2021; Global Spine Congress 2021)
5. Subclassification of Sanders Stage 7: The use of ulna physis can improve decision-making for brace weaning in adolescent idiopathic scoliosis (Nov 4 2021; Global Spine Congress 2021)
6. Imaging profile of subjects with lumbar developmental spinal stenosis in a population-based cohort (Nov 5 2021; Global Spine Congress 2021)
7. 207. Screw Malalignment May Explain Cord Rupture in Vertebral Body Tethering: A Finite Element Analysis (**John H. Moe Best Basic Research Poster**; 2021 Scoliosis Research Society Annual Meeting)
8. 41. Sanders stage 7b: using the ulna physis improves decision-making for brace weaning in adolescent idiopathic scoliosis (**Hibbs Award-Nominated Papers for Best Basic/Translational and Clinical Research**; 2021 Scoliosis Research Society Annual Meeting; 24 Sep 2021)
9. 3A. The first MCGR in the world – lessons learned over the past 10 years from implantation to graduation (Case Discussion 3: Novel approaches to instrumentation; 2021 Scoliosis Research Society Annual Meeting; 22 Sep 2021)
10. Scoliosis in osteogenesis imperfecta – quality of life and surgical impact: SICOT Orthopaedic World Congress 2021 (September 2021)
11. Sanders 7b: Modification with the ulna physis to improve decision-making for brace weaning in idiopathic scoliosis: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (Paediatric Orthopaedics Award Session; 29-31 July 2021)

12. Brace treatment can lead to permanent curve regression in adolescent idiopathic scoliosis: importance of compliance and flexibility: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (Paediatric Orthopaedics Award Session; 29-31 July 2021)
13. Population-based analysis of the clinical implications of lumbar developmental spinal stenosis: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (**Spine Section Award Winner**; 29-31 July 2021)
14. Prediction of lumbar disc degeneration progression with specified clinical parameters using artificial intelligence: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (Spine Award Session; 29-31 July 2021)
15. Development of a novel device to predict accurate sagittal alignment despite variable and poor-quality images captured by smartphones: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (29-31 July 2021)
16. Vertical instability in spondylolisthesis: assessment by prone traction radiographs determines correction with interbody fusions: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (29-31 July 2021)
17. Predicting height at skeletal maturity for adolescent idiopathic scoliosis using standardized growth parameters and controlled for curve magnitude: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (29-31 July 2021)
18. Predicting curve progression risk in adolescent idiopathic scoliosis with supine flexibility: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (29-31 July 2021)
19. Novel fracture predictor based on micro-finite element analysis assessing ineffective bone mass with microarchitecture varying trabecular elasticity: 21<sup>st</sup> Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia (29-31 July 2021)
20. Fully-automated deep learning prediction of spinal deformity alignment irrespective of image quality obtained via smartphone photographs: 13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan (June 10-12, 2021)
21. The ipsilateral epiphyseal and central endplate Hounsfield Units accurately predicts intraoperative endplate violation and delayed cage subsidence with Oblique Lateral Interbody Fusion: 13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan (June 10-12, 2021)
22. Optimizing the brace-weaning criteria in adolescent idiopathic scoliosis: The role of utilizing the new Sanders 7b staging: 13<sup>th</sup> Combined Meeting of Asia Pacific

- Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021)  
Kobe, Japan (June 10-12, 2021)
23. Increased population risk of radicular leg pain in lumbar developmental spinal stenosis: 13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan (June 10-12, 2021)
  24. Spinal column phenotypes with lumbar developmental spinal stenosis – results from 2387 MRIs: 13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan (June 10-12, 2021)
  25. Do both morphometric and mechanical characteristics of lumbar multifidus in people with chronic low back pain differ from those of asymptomatic counterparts?: ISSLS Virtual Annual Meeting 2021 (OP, June 2-4, 2021)
  26. Influence of lumbar developmental spinal stenosis on back pain, leg pain and disability – prospective cohort of 2206 subjects: ISSLS Virtual Annual Meeting 2021 (OP Best Papers Clinical, June 2-4, 2021)
  27. Learning-based coronal spine alignment prediction using smartphone-acquired scoliosis radiograph images: ISSLS Virtual Annual Meeting 2021 (OP, June 2-4, 2021)
  28. Deficits in proprioceptive reweighting in middle-aged people with chronic low back pain and asymptomatic people: a cross-sectional study: ISSLS Virtual Annual Meeting 2021 (SP, June 2-4, 2021)
  29. Learning-based fully automated prediction of lumbar disc degeneration progression with specified clinical parameters and preliminary validation: ISSLS Virtual Annual Meeting 2021 (SP, June 2-4, 2021)
  30. A novel tool to provide predictable alignment data irrespective of source and image quality acquired on mobile phones: what engineers can offer clinicians: ISSLS Virtual Annual Meeting 2021 (SP, June 2-4, 2021)
  31. The effectiveness of motor control exercise in improving lumbar multifidus muscles morphology in patients with low back pain – a systematic review: ISSLS Virtual Annual Meeting 2021 (SP, June 2-4, 2021)
  32. The profile of the spinal column in subjects with lumbar developmental spinal stenosis: ISSLS Virtual Annual Meeting 2021 (GP, June 2-4, 2021)
  33. The role of Hounsfield Unit in intraoperative endplate violation and delayed cage subsidence with Oblique Lateral Interbody Fusion: ISSLS Virtual Annual Meeting 2021 (GP, June 2-4, 2021)
  34. A computerized analysis of the aetiology of Modic Changes associated with intervertebral disc degeneration: ISSLS Virtual Annual Meeting 2021 (GP, June

- 2-4, 2021
35. Predicting spondylolisthesis correction with prone traction radiographs: ISSLS Virtual Annual Meeting 2021 (GP, June 2-4, 2021)
  36. Deep learning based fully automated pathology classification of lumbar spine: ISSLS Virtual Annual Meeting 2021 (GP, June 2-4, 2021)
  37. MRI-SegFlow V2.0: a novel unsupervised deep learning pipeline enabling accurate semantic segmentation of lumbar MR images with preliminary validation: ISSLS Virtual Annual Meeting 2021 (GP, June 2-4, 2021)
  38. Importance of the Epiphyseal Ring in OLIF Stand-alone Surgery: A Biomechanical Study on Cadaveric Spines: ISSLS Virtual Annual Meeting 2021 (GP, June 2-4, 2021)
  39. Performance of Proxy-reported EQ-5D Youth Version 5-level (EQ-5D-Y-5L) in Comparison with Three-level (EQ-5D-Y-3L) in Children and Adolescents with Scoliosis – Jiaer Lin - Virtual ISPOR 2021: May 17-20, 2021
  40. Analysis of early-onset scoliosis instrumentation using growing-rod and growth guidance systems – Xiaoyu Wang, JPY Cheung - 26<sup>th</sup> Congress of the European Society of Biomechanics: July 11-14, 2021 (Milan, Italy)
  41. The relationship between electromyographic amplitude of paravertebral muscles and curve progression in Chinese adolescents with idiopathic scoliosis: a prospective cohort study: eSOSORT (shortlisted for award) 2021 Virtual Meeting (April 29-May 1 2021)
  42. Real-time 3D reconstruction of the scoliotic ribcage of adolescents with major thoracic curves during angular breathing exercises: a proof of concept study: eSOSORT 2021 Virtual Meeting (April 29-May 1 2021)
  43. Screening for scoliosis using computer vision and machine learning allows high throughput screening: a proof of concept study: eSOSORT 2021 Virtual Meeting (April 29-May 1 2021)
  44. Pre-lecture reading and assessment improves retention of knowledge in final year MBBS students - Frontiers in Medical and Health Sciences Education 2020: Medical Education Disrupted – Negativity or Creativity (November 27-28, 2020)
  45. Systematic investigation of metallosis associated with magnetically controlled growing rod implantation for early onset scoliosis (2020 ICEOS Virtual Meeting)
  46. Accurate body appearance detections and “non-radiation” X-ray synthesis using artificial intelligence and depth-sensing technologies (The 3<sup>rd</sup> Sydney Spinal VIRTUAL Symposium, 10-11 Sept 2020)
  47. Performance of proxy-reported EQ-5D Youth version 5-level (EQ-5D-5L-Y) in comparison with three-level (EQ-5D-3L-Y) in Chinese patients with adolescent idiopathic scoliosis (4<sup>th</sup> EuroQol Scientific Academy Meeting 2020 Prague, Czech

Republic, 2-4 March 2020)

48. Test-retest reliability of proxy-reported and self-reported EQ-5D-Y in patients with adolescent idiopathic scoliosis (4<sup>th</sup> EuroQol Scientific Academy Meeting 2020 Prague, Czech Republic, 2-4 March 2020)
49. Larson AN, Pahys J, Woon R, St. Hilaire T, El-Hawary R, Fitzgerald R, Cheung J. High inter-rater reliability for arm span and ulnar length measurements (13<sup>th</sup> International Congress on Early Onset Scoliosis (ICEOS), Atlanta, Georgia, November 2019)
50. Agreement between self-reported and proxy-reported EQ-5D-3L-Y health outcomes in patients with adolescent idiopathic scoliosis (36<sup>th</sup> EuroQol Scientific Plenary Meeting 2019 Brussels, Belgium, 18-21 September 2019)
51. Paper #239. Insight into how to use multiple skeletal maturity indices for growth assessment: correlation between olecranon, Sanders and DRU classification systems (54<sup>th</sup> Annual Meeting of the Scoliosis Research Society, September 18-21, 2019, Montreal, Canada)
52. Paper #156. Law of temporary diminishing distraction gains: the phenomenon of temporary diminished distraction lengths with magnetically controlled growing rods that is reverted with rod exchange (54<sup>th</sup> Annual Meeting of the Scoliosis Research Society, September 18-21, 2019, Montreal, Canada)
53. Paper #107. 3D-Printed spinal orthosis in management of adolescent idiopathic scoliosis: a randomized controlled trial (54<sup>th</sup> Annual Meeting of the Scoliosis Research Society, September 18-21, 2019, Montreal, Canada)
54. Establishment of a standard positioning method for scoliosis study in mouse models (International Consortium for Spinal Genetics Development and Disease, Stockholm, Sweden, September 5-7, 2019)
55. Genetic studies of Congenital Scoliosis in a Southern China cohort (International Consortium for Spinal Genetics Development and Disease, Stockholm, Sweden, September 5-7, 2019)
56. Compound heterozygosity of TBX6 in patients with congenital scoliosis in South China (International Consortium for Spinal Genetics Development and Disease, Stockholm, Sweden, September 5-7, 2019)
57. Case Report: Characterization of a novel adolescent idiopathic scoliosis patient family (International Consortium for Spinal Genetics Development and Disease, Stockholm, Sweden, September 5-7, 2019)
58. A Novel Superelastic Shape-Memory Rod Provides More Options for Optimal AIS Correction: Biomechanical Analysis of A Clinical Trial with 5-Year Follow-Up (26<sup>th</sup> International Meeting on Advanced Spine Techniques (IMAST), July 17-20, 2019 in Amsterdam, the Netherlands)

59. Insight into how to use multiple skeletal maturity indices for growth assessment: correlation between olecranon, digital and wrist classification systems (16<sup>th</sup> International Phillip Zorab Symposium, Dublin, Ireland: 20-21 June 2019)
60. How do we decide when to wean brace treatment in adolescent idiopathic scoliosis? Reducing curve progression risk by use of standardized skeletal maturity parameters (16<sup>th</sup> International Phillip Zorab Symposium, Dublin, Ireland: 20-21 June 2019)
61. A novel method to capture the sagittal profile in spinal deformities: the reliability and feasibility of three-dimensional ultrasound imaging (16<sup>th</sup> International Phillip Zorab Symposium, Dublin, Ireland: 20-21 June 2019)
62. Detection of coronal scoliotic curve profile alternation of patients with adolescent idiopathic scoliosis from upright sitting to forward bending (16<sup>th</sup> International Phillip Zorab Symposium, Dublin, Ireland: 20-21 June 2019)
63. 14: Male gender and initial job demand predicts successful re-integration and return to work: results from 20-years of experience with a multidisciplinary programme for rehabilitation of chronic low back pain (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
64. 69: The influence of developmental spinal stenosis on reoperation risk at the adjacent segment after decompression surgery for lumbar spinal stenosis (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
65. GP215: Relationship between spinopelvic parameters and chronic neck, back and multiregional pain (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
66. GP232: Is spinal deformity related to the aerobic capacity of patients with adolescent idiopathic scoliosis? A systematic review (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
67. GP233: An accepting attitude and lack of negative cognition leads to less pain and disability related to chronic low back pain (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
68. GP247: The associations between spinal deformities and pulmonary functions in conservatively treated patients with adolescent idiopathic scoliosis – a systematic review and meta-analysis (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
69. GP261: Changes in sagittal alignment in upslope or downslope: An insight into dynamic spinal stenosis symptomatology (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
70. GP318: Biomechanical stability of pedicle versus cortical screws in the lumbar spine (46<sup>th</sup> ISSLS Annual Meeting: Kyoto, Japan, June 3-7 2019)
71. S017 Defining standardized guidelines for brace-weaning in adolescent idiopathic

- scoliosis (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea)
72. S077 Over 20-years of experience of a multidisciplinary programme for rehabilitation of chronic low back pain – factors predicting successful re-integration and return to work (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea)
  73. S109 A computational comparison of lumbar interbody fusion utilizing different interbody cages with unilateral and bilateral fixation (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea) (Best Paper Award Session: Basic Science)
  74. S184 The influence of developmental spinal stenosis on reoperation risk at the adjacent segment after decompression surgery for lumbar spinal stenosis (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea)
  75. S194 Changes in sagittal alignment in upslope or downslope: an insight into dynamic spinal stenosis symptomatology (12<sup>th</sup> Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, April 4-6 2019, Incheon, Korea)
  76. XLIF Interbody Cage Reduces Stress and Strain of Fixation in Spinal Reconstructive Surgery in Comparison with TLIF Cage with Bilateral or Unilateral Fixation: A Computational Analysis (2019 41st Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC))
  77. Predicting curve progression in adolescent idiopathic scoliosis using support vector machine approach (The 9th WACBE World Congress on Bioengineering (WACBE 2019), Taipei, Taiwan, August 16-19, 2019)
  78. Are lung functions related to spinal deformities in patients with adolescent idiopathic scoliosis? A systematic review and meta-analysis (14<sup>th</sup> International Meeting of SOSORT 2019) **Best Paper Award**
  79. The association between aerobic capacity and spinal deformity in patients with adolescent idiopathic scoliosis – a systematic review (14<sup>th</sup> International Meeting of SOSORT 2019)
  80. Insights into the cellular basis of intervertebral disc disease gained from the transcriptomes of single cells (Gordon Research Conference on Cartilage Biology and Pathology)
  81. Feasibility of proxy-reported EQ-5D-3L-Y and its agreement in health outcomes with patient version for patients with adolescent idiopathic scoliosis (EuroQol 1<sup>st</sup> Asia Academy Meeting, Guangzhou, China)

82. EN-1-A-5 Long term and end of treatment results of magnetically controlled growing rods for early onset scoliosis (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan)
83. EN-2-C-2 Curve magnitude, sleep, depression and brace treatment are significant risk factors for developing back pain in adolescent idiopathic scoliosis (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan)
84. EN-2-C-4 Anterior correction of the thoracolumbar or lumbar adolescent idiopathic scoliosis (AIS): report on short fusion (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan) **Outstanding English Paper Award**
85. EN-2-D-1 Predictors of postoperative shoulder imbalance in selective thoracic fusion for adolescent idiopathic scoliosis: impact of fulcrum flexibility (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan) **Outstanding English Paper Award**
86. EN-2-D-3 Predicting postoperative curve correction in adolescent idiopathic scoliosis using curve flexibility and the sagittal profile (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan)
87. EN-2-D-5 Are we weaning braces too early for adolescent idiopathic scoliosis: the problem with current bracing guidelines (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan)
88. EN-2-D-6 An insight into the health-related quality of life of adolescent idiopathic scoliosis patients undergoing bracing, observation and previously braced (The 52<sup>nd</sup> Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan)
89. Fulcrum flexibility of the main curve predicts postoperative shoulder imbalance in selective thoracic fusion of adolescent idiopathic scoliosis (Danish Orthopedic Society Congress, October 24-26, 2018)
90. Paper 164: Redefining guidelines for brace-weaning in adolescent idiopathic scoliosis based on standardized skeletal maturity parameters (53<sup>rd</sup> Annual Meeting & Course, Bologna, Italy, October 10-13, 2018)
91. Paper 273: Radiation-free 3D ultrasound can provide sagittal profile of adolescent idiopathic scoliosis (53<sup>rd</sup> Annual Meeting & Course, Bologna, Italy, October 10-13, 2018)
92. 2C: preoperative traction, Riluzole, and 3D modeling optimizes the safety of correction of a stiff 150-degree kyphoscoliosis deformity (53<sup>rd</sup> Annual Meeting & Course, Bologna, Italy, October 10-13, 2018)
93. Topographical sagittal profile in 620 patients measured by a novel handheld device (25<sup>th</sup> International Meeting on Advanced Spine Techniques, 2018)
94. Sustainable fashion textiles research on innovative 3D spacer fabrics comprising shape memory alloy wire for pressure reduction and redistribution (Textile



institute world conference 2018, Leeds, UK, 24-26 July 2018)

95. The biomechanical origins of Modic changes as mediated by disc stiffness: a finite-element analysis (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
96. Predictability of coronal curve flexibility in postoperative curve correction in adolescent idiopathic scoliosis: the effect of the sagittal profile (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)

**Finalist for Best Clinical Paper**

97. Risk of spring-back closure in skipped-level plating for open-door laminoplasty: insight into its cost-saving potential (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
98. Are rigid cervical collars necessary for patients undergoing open-door laminoplasty and titanium arch plates for cervical myelopathy? – a randomized clinical trial (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
99. The influence of developmental spinal stenosis on reoperation risk at adjacent levels after lumbar spinal stenosis surgery (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
100. Reliability of spino-pelvic, thoracic and magnetically controlled growing rod distractions using biplanar stereoradiography (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
101. Fulcrum flexibility of the main curve predicts postoperative shoulder imbalance in selective thoracic fusion of adolescent idiopathic scoliosis (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
102. Mean 6-year follow-up of magnetically controlled growing rod patients with early onset scoliosis (Asia Pacific Spine Society Annual Meeting in Taiwan 2018)
103. Spinopelvic alignment and the development of vertebral endplate abnormalities: The “Missing Link” (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2018, Banff, Canada)
104. Spinopelvic alignment predicts disc stiffness, herniation, and Modic changes: Evidence of an evolutionary etiology for clinically-relevant spinal phenotypes (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2018, Banff, Canada)
105. The prevalence and risk factors of back pain in patients with adolescent idiopathic scoliosis – a large-scale cross-sectional study (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2018, Banff, Canada)
106. Does lumbar disc degeneration predict facet joint changes or vice versa? A 5 year prospective MRI study (Annual meeting of the International Society for the

Study of the Lumbar Spine (ISSLS) 2018, Banff, Canada)

**Best paper prize**

107. Developmental spinal stenosis: a novel rat model with circumferential compression (Global Spine Congress 2018, Singapore)
108. Differential psychometric properties of EQ-5D-5L and SF-6D utility measures in patients with low back pain (Global Spine Congress 2018, Singapore)
109. Curve progression matching with skeletal growth in adolescent idiopathic scoliosis using the distal radius and ulna (DRU) classification (Global Spine Congress 2018, Singapore)
110. Performance characteristics of a novel handheld web-based device for 3D topographical detection and assessment of scoliosis (Global Spine Congress 2018, Singapore)
111. Predicting the risk of curve progression by the distal radius and ulna classification (DRU) for patients with adolescent idiopathic scoliosis (Global Spine Congress 2018, Singapore)
112. Lumbar spinal stenosis treated by conventional microsurgical laminotomy or endoscopic interlaminar decompression: cost-analysis to decision-making (Global Spine Congress 2018, Singapore)
113. Risk of spring-back closure in skipped-level plating for open-door laminoplasty: an insight of its cost-saving potential (Global Spine Congress 2018, Singapore)
114. Responsiveness of the 3-level and 5-level EQ-5D Youth Versions in patients with idiopathic scoliosis (35<sup>th</sup> EuroQol Plenary meeting 2018, Lisbon, Portugal)
115. A computational comparison of the lateral lumbar interbody fusion with unilateral and bilateral fixation (40<sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2018, Honolulu, USA)
116. A novel approach to sagittal profiling of adolescent idiopathic scoliosis using 3D ultrasound (The International Research Society of Spinal Deformities, IRSSD 2018 meeting)
117. A novel scoliosis instrumentation using special super elastic nickel-titanium shape memory alloy spinal rods can result in equivalent correction as conventional rods but with less stress at bone-implant interface: A biomechanical evaluation through simulations (The International Research Society of Spinal Deformities, IRSSD 2018 meeting)
118. Paper #26: Analysis of sagittal profile of spine using ultrasound imaging in adolescent idiopathic scoliosis with the assistance of radiograph (13<sup>th</sup> International Meeting of SOSORT 2018)
119. Paper #40: The prevalence and risk factors of back pain in patients with

- adolescent idiopathic scoliosis: a large-scale cross-sectional study (13<sup>th</sup> International Meeting of SOSORT 2018)
120. Paper #60: Patterns of coronal curve changes in forward bending posture: a 3D ultrasound study of adolescent idiopathic scoliosis patients (13<sup>th</sup> International Meeting of SOSORT 2018)
  121. Measurement properties of five-level and three-level EQ-5D-Y in paediatric patients in Hong Kong (The third EuroQoL Academy Meeting, Budapest, Hungary, 6-8 March 2018)
  122. Predicting curve progression at skeletal maturity in adolescent idiopathic scoliosis using the distal radius and ulna classification (SICOT Annual Meeting 2017): **SICOT Young Investigator Award**
  123. P19: Spinal deformities in osteogenesis imperfecta Chinese patients – analysis of 106 cases (11<sup>th</sup> International Congress on early onset scoliosis, ICEOS)
  124. The best distraction frequency for optimizing spine and rod length gains with magnetically controlled growing rods (11<sup>th</sup> International Congress on early onset scoliosis, ICEOS)
  125. Rod lengthening with the magnetically controlled growing rod: factors influencing rod slippage and reduced gains during distractions (11<sup>th</sup> International Congress on early onset scoliosis, ICEOS)
  126. Reliability of spino-pelvic and thoracic measurements with the EOS in patients with magnetically controlled growing rods in-situ (11<sup>th</sup> International Congress on early onset scoliosis, ICEOS)
  127. Slow and gradual preoperative halo traction provides safe correction of severe scoliosis in patients with osteogenesis imperfecta (11<sup>th</sup> International Congress on early onset scoliosis, ICEOS)
  128. Early onset scoliosis treated by magnetically controlled growing rods: mid-to long-term follow-up and analysis of 5 graduates (11<sup>th</sup> International Congress on early onset scoliosis, ICEOS)
  129. Fusion mass shift: role in prediction of postoperative distal curve adding-on in adolescent idiopathic scoliosis (40<sup>th</sup> Annual Scientific Meeting of the Singapore Orthopaedic Association 2017)
  130. The significance of clunking in magnetically controlled growing rod distractions: a prospective analysis of 22 patients” (52<sup>nd</sup> Annual Meeting & Course of the Scoliosis Research Society 2017)
  131. 1B: The role of magnetically-controlled growing rods as a temporary internal brace for treatment of adolescent idiopathic scoliosis with failed bracing (52<sup>nd</sup> Annual Meeting & Course of the Scoliosis Research Society 2017)
  132. 2D: Ten-year follow-up of Jarcho-Levin Syndrome with thoracic

- insufficiency treated by prosthetic rib/rib based construct-magnetically controlled growing rod hybrid (52<sup>nd</sup> Annual Meeting & Course of the Scoliosis Research Society 2017)
133. 3A: Management of the most severe dystrophic cervical kyphosis (140 degrees) in neurofibromatosis type 1 (52<sup>nd</sup> Annual Meeting & Course of the Scoliosis Research Society 2017)
134. Novel outlook on curve progression prediction in adolescent idiopathic scoliosis: patterns for those who require observation only, bracing or surgery (11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017)
135. Traditional growing rod and magnetically controlled growing rod treatment of early onset scoliosis: cost analysis from implantation till maturity (11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017)
136. UTE MRI disc sign: a novel imaging biomarker associated with spine degeneration, pain and disability (11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017)
137. Predictability of curve progression in adolescent idiopathic scoliosis using the distal radius and ulna classification (11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017) **Best Clinical Paper Award**
138. The first collaborative APSS study: variations in practice for cervical myelopathy (11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017) **Best Clinical Paper Award Nominee**
139. The effect of clunking on spine lengthening with magnetically controlled growing rod distractions (11th Combined meeting of Asia Pacific Spine Society &

Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017) **Best Clinical Paper Award**

140. Lumbar “high-intensity zones” on MRI: imaging biomarkers significantly associated with severe, prolonged low back pain and sciatica in a population-based cohort (11th Combined meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of the international federation of paediatric orthopaedic societies (IFPOS) Pre-meeting course of international society for the advancement of spine surgery 2017)
141. Vertebral endplate abnormalities are highly associated with thoracic disc herniations in symptomatic patients (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2017)
142. Lumbar high-intensity zones on MRI: imaging biomarkers for severe, prolonged low back pain and sciatica in a population-based cohort (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2017)
143. Multi-dimensional assessment of vertebral endplate breaks on MRI: implications in spine degeneration and pain/disability (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2017)
144. Radiographic indices for lumbar developmental spinal stenosis (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2017)
145. Creating a developmental spinal stenosis rat model and utility of somatosensory evoked potential for testing (Annual meeting of the International Society for the Study of the Lumbar Spine (ISSLS) 2017)
146. Predicting peak growth spurt and cessation of growth with the distal radius and ulna classification (Annual Meeting & Course of the Scoliosis Research Society, SRS 2016)
147. Data-driven modeling for scoliosis prediction (IEEE International conference on system science & engineering, ICSSE 2016)
148. A machine learning based prognostic prediction of cervical myelopathy using diffusion tensor imaging (IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, CIVEMSA 2016)
149. Characterization and predictive value of “segmental curve flexibility” in adolescent idiopathic scoliosis patients (APSS session, 2016 Spineweek, Singapore)

150. Predictability of peak growth spurt and growth cessation using the distal radius and ulna classification (APSS session, 2016 Spineweek, Singapore): **APSS best oral presentation 1<sup>st</sup> prize**
151. Incidence of DJK after selective thoracic fusion with low implant density in AIS (APSS session, 2016 Spineweek, Singapore)
152. The UTE MRI Disc Sign (UDS): A novel imaging biomarker associated with spine degeneration, pain and disability (APSS session, 2016 Spineweek, Singapore)
153. Are magnetically controlled growing rods useful as an internal splint in idiopathic scoliosis? (APSS session, 2016 Spineweek, Singapore)
154. Cervical spinal canal stenosis first presenting after spinal cord injury due to minor trauma: An insight into the value of preventive decompression (APSS session, 2016 Spineweek, Singapore)
155. Effect of an imbalanced fusion block with residual shift on distal adding-on segments after adolescent idiopathic scoliosis surgical correction (APSS session, 2016 Spineweek, Singapore)
156. Consensus on the clinical diagnosis of lumbar spinal stenosis: Results of an International Delphi Study (ISSLS session, 2016 Spineweek, Singapore): **ISSLS prize – Clinical**
157. SP4: Novel classification and risk factors of high intensity zones of the lumbar spine: The Wakayama Spine Study (ISSLS session, 2016 Spineweek, Singapore)
158. Matched comparative study between ACDF and laminoplasty for 2-3 levels cervical myelopathy, neurological outcome and late kyphosis (APSS session, 2016 Spineweek, Singapore)
159. Natural history study of ossification of the yellow ligament: Five-year longitudinal MRI follow-up (ISSLS session, 2016 Spineweek, Singapore)
160. Natural history of lumbar disc degeneration and other spinal phenotypes on MRI: A prospective, comparative five-year longitudinal study (ISSLS session, 2016 Spineweek, Singapore)
161. Lumbar paravertebral muscle fatty infiltration: Spatial distribution and association with disc degeneration in an Asian population (AOSpine session, 2016 Spineweek, Singapore)
162. Prediction of peak growth and growth cessation using the distal radius and ulna classification (19<sup>th</sup> Asia Pacific Orthopaedic Association Congress 2016, Melbourne, Australia)
163. Poster 14: The relationship of ligamentum flavum hypertrophy and developmental spinal stenosis (19<sup>th</sup> Asia Pacific Orthopaedic Association Congress

- 2016, Melbourne, Australia)
164. Five year longitudinal MRI follow-up of a population based cohort of subjects with ossified yellow ligament: a natural history study (19<sup>th</sup> Asia Pacific Orthopaedic Association Congress 2016, Melbourne, Australia): **APSS best spine paper award**
  165. Gender and age-related changes of diffusion tensor imaging parameters of cervical spinal cord (North American Spine Society 29<sup>th</sup> Annual Meeting Podium Presentation 2015, Chicago, USA)
  166. P37 The clunking phenomenon in magnetically-controlled growing rods: possible risk factors (ICEOS 2015: 9<sup>th</sup> International Congress on Early Onset Scoliosis, Boston, MA, USA)
  167. P48 Magnetically-controlled growing rods: Does the law of diminishing returns apply? (ICEOS 2015: 9<sup>th</sup> International Congress on Early Onset Scoliosis, Boston, MA, USA)
  168. Magnetically-controlled growing rods for managing scoliosis: does the law of diminishing returns apply? (Hong Kong 2015 The combined congress of 12<sup>th</sup> Hong Kong International orthopaedic forum (HKIOF) & 10<sup>th</sup> Combined congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China)
  169. An international multi-center study assessing the role of ethnicity upon variation of lumbar facet joint orientation and the occurrence of degenerative spondylolisthesis in Asia Pacific: a study from the AOSAP Research Collaboration Consortium (Hong Kong 2015 The combined congress of 12<sup>th</sup> Hong Kong International orthopaedic forum (HKIOF) & 10<sup>th</sup> Combined congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China)
  170. Efficacy of postoperative pain management of the iliac crest bone graft harvesting site in adolescent idiopathic scoliosis patients: a parallel, double-blinded, randomized controlled trial (Hong Kong 2015 The combined congress of 12<sup>th</sup> Hong Kong International orthopaedic forum (HKIOF) & 10<sup>th</sup> Combined congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China)
  171. Distraction failure in magnetically-controlled growing rods: prevalence and risk factors (Hong Kong 2015 The combined congress of 12<sup>th</sup> Hong Kong International orthopaedic forum (HKIOF) & 10<sup>th</sup> Combined congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China)
  172. UTE MRI disc sign (UDS): a novel imaging biomarker associated with spine

- degeneration, pain and disability (42<sup>nd</sup> Annual Meeting of the International Society for the Study of the Lumbar Spine 2015, San Francisco, USA)
173. Proteoglycan profile and level-specific imaging biomarkers of lumbar disc displacement (42<sup>nd</sup> Annual Meeting of the International Society for the Study of the Lumbar Spine 2015, San Francisco, USA)
174. Free paper #3: Prospective correlation study between ultrasound and radiographs for monitoring distractions in magnetically-controlled growing rods (ICEOS 2015: 9<sup>th</sup> International Congress on Early Onset Scoliosis, Boston, MA, USA)
175. Paper 74: Magnetically-Controlled Growing Rods: Does the Law of Diminishing Returns Apply? (50<sup>th</sup> Annual Meeting & Course of the Scoliosis Research Society 2015, Minneapolis, Minnesota, USA)
176. Paper 115: A randomized double-blinded clinical trial to evaluate the safety and efficacy of super-elastic memory alloy spinal rod versus a standard titanium spinal rod in patients with adolescent idiopathic scoliosis: five-year follow-up (50<sup>th</sup> Annual Meeting & Course of the Scoliosis Research Society 2015, Minneapolis, Minnesota, USA)
177. Paper 40426: Significance of Ligamentum Flavum Hypertrophy in Developmental Spinal Stenosis (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
178. Distraction failure in magnetically-controlled growing rods: prevalence and risk factors (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
179. Paper 39189: Managing Early Onset Scoliosis With Magnetically-Controlled Growing Rods For Managing Scoliosis: Does the Law of Diminishing Returns Apply? (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
180. Paper 39188: Randomized Double-Blinded Clinical Trial to Evaluate the Safety and Efficacy of Super-elastic Memory Alloy Spinal Rod Versus Standard Titanium Spinal Rod in Patients with Adolescent Idiopathic Scoliosis: Five-Year Follow-up Results (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
181. An international, large-scale multi-center study assessing the role of facet joint angulation and tropism with the development of lumbar degenerative spondylolisthesis – A study from the AOSAP Research Collaboration Consortium (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
182. Is lumbar facet tropism developmental or secondary to remodeling changes? An international, large-scale multi-centre study by the AOSAP collaboration consortium (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
183. Efficacy of postoperative pain management of the iliac crest bone graft



- harvesting site in adolescent idiopathic scoliosis patients: a parallel, double-blinded, randomized controlled trial (36<sup>th</sup> SICOT Orthopaedic World Congress 2015, Guangzhou, China)
184. Paper 23: Use of ultrasound to monitor distractions by magnetically-controlled growing rods: A longitudinal correlation study (IMAST 2015: 22<sup>nd</sup> International Meeting on Advanced Spine Techniques: Kuala Lumpur, Malaysia)
185. Paper 91: “Distraction failure” in magnetically-controlled growing rods: Prevalence and risk factors (IMAST 2015: 22<sup>nd</sup> International Meeting on Advanced Spine Techniques: Kuala Lumpur, Malaysia)
186. Spinal deformity-The distal radius and ulna (DRU) classification in assessing skeletal maturity: a simplified scheme and reliability analysis (Hong Kong 2015 The combined congress of 12<sup>th</sup> Hong Kong International orthopaedic forum (HKIOF) & 10<sup>th</sup> Combined congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China)
187. The 5-year follow-up of a randomized double-blinded clinical trial to evaluate the safety and efficacy of super-elastic memory alloy spinal rod versus a standard titanium spinal rod in patients with adolescent idiopathic scoliosis (Hong Kong 2015 The combined congress of 12<sup>th</sup> Hong Kong International orthopaedic forum (HKIOF) & 10<sup>th</sup> Combined congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China)
188. Developmental Spinal Stenosis: GWAS Study on a Southern Chinese Population (HKOA Ambassador at the British Orthopaedic Association Annual Congress 2014: Brighton, UK)
189. Defining Clinically-relevant values for developmental spinal stenosis: a large scale MRI study (41<sup>st</sup> Annual Meeting of the International Society for the Study of the Lumbar Spine 2014, Seoul, Korea)
190. Developmental lumbar spinal stenosis in Southern Chinese: findings from a genome-wide association study (Combined Academic Conference of the 18<sup>th</sup> Biennial Congress of the Asia Pacific Orthopaedic Association and the 36<sup>th</sup> Annual Meeting of the Royal College of Orthopaedic Surgeons of Thailand 2014)
191. The safety and efficacy of a remotely distractible, magnetic controlled growing rod (MCGR) for the treatment of early-onset scoliosis: A prospective case series with minimum 2 year follow-up (The 42<sup>nd</sup> Annual Meeting of the Japanese Society for Spine Surgery and Related Research 2013)
192. Developmental Spinal Stenosis in the Chinese Population: Presence in Patients and Redefining Critical Values on MRI” (The 42<sup>nd</sup> Annual Meeting of the

Japanese Society for Spine Surgery and Related Research; Okinawa, Japan):

**English Poster Award Finalist**

193. Verifying and Defining Developmental Spinal Stenosis: An MRI based Study (HKOA Ambassador at 2013 NZOA Annual Scientific Meeting; Rutherford Hotel, Nelson, New Zealand)
194. Biomechanical comparative study of the JuggerKnot™ soft anchor technique with other common mallet finger fracture fixation techniques (Tetra Hand 2013 11th International Meeting on Surgical Rehabilitation of the Tetraplegic Upper Limb cum 26th HKSSH Annual Congress and 6th Annual Therapist Symposium of the Hong Kong Society for Hand Therapy: Hong Kong)
195. The safety and efficacy of a remotely distractible, magnetic controlled growing rod (MCGR) for the treatment of scoliosis in children (50<sup>th</sup> Anniversary International Philip Zorab Symposium 2013)
196. Developmental spinal stenosis in Chinese population: presence in patients and redefining critical values on MRI (The 42<sup>nd</sup> Annual Meeting of the Japanese Society for Spine Surgery and Related Research 2013): **Best Paper Finalist**
197. Antimicrobial prophylaxis to prevent surgical site infection in adolescent idiopathic scoliosis patients undergoing posterior spinal fusion – 2 doses vs antibiotics till drain removal (34<sup>th</sup> SICOT Orthopaedic World Congress 2013, Hyderabad, India)
198. Strategies to decrease perioperative blood loss in adolescent idiopathic scoliosis patients undergoing posterior spinal fusion – judicious use of drains, planned surgical procedure, factors influencing intraoperative blood loss (34<sup>th</sup> SICOT Orthopaedic World Congress 2013, Hyderabad, India)
199. The safety and efficacy of a remotely distractible, magnetic controlled growing rod (MCGR) for the treatment of early-onset scoliosis: a prospective case series with minimum 2 year follow-up (Global Spine Congress 2013: Hong Kong)
200. Developmental Spinal Stenosis in the Chinese Population: Presence in Patients and Redefining Critical Values on MRI (Global Spine Congress 2013: Hong Kong): **Best Paper Session**
201. Could Both T1 and T2-weighted MRI be Used for Spinal Stenosis Analysis (The 7<sup>th</sup> International Congress of Chinese Orthopaedic Association; Beijing, China 2012)
202. 166 Cases of Mycobacterium Marinum Tenosynovitis of the Hand and Wrist: Clinical Features, Management and Results (eCM XII & APOA Infection Section Annual Scientific Meeting 2011; Congress Centre, Davos, Switzerland): **Finalist for 2010 APOA-Pfizer Best Scientific Paper Award for Orthopaedic Infection**
203. 166 Cases of Mycobacterium Marinum Tenosynovitis of the Hand and Wrist:

- Clinical Features, Management and Results (11<sup>th</sup> Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010; Seoul, Korea)
204. Multiple Triggering in a Girl with Ehlers-Danlos Syndrome: A Case Report (11<sup>th</sup> Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010; Seoul, Korea)
205. Mycobacterium Marinum Infection of the Deep Structures of the Hand and Wrist: 25 Years of Experience (11<sup>th</sup> Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010; Seoul, Korea)
206. Mycobacterium Marinum Infection of the Hand and Wrist: A Review of Antibiotic Regimens (11<sup>th</sup> Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010; Seoul, Korea)
207. A Review of Necrotizing Fasciitis in the Extremities (11<sup>th</sup> Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010; Seoul, Korea)
208. Occupational Repetitive Strain Injuries in Hong Kong (11<sup>th</sup> Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010; Seoul, Korea)
209. Mycobacterium Marinum Infection of the Hand and Wrist: A Review of Antibiotic Treatment Regimens (7<sup>th</sup> SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden)
210. Occupational Repetitive Strain Injuries in Hong Kong (7<sup>th</sup> SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden)
211. Prognostic Factors of Mycobacterium Marinum Infection of the Hand and Wrist (7<sup>th</sup> SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden)
212. A Review of Necrotizing Fasciitis in the Extremities (7<sup>th</sup> SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden)
213. Occupational Repetitive Strain Injuries in Hong Kong (The 4<sup>th</sup> International Congress of Chinese Orthopaedic Association 2009; Xiamen, China)
214. Mycobacterium Marinum Infection of the Hand and Wrist (The 4<sup>th</sup> International Congress of Chinese Orthopaedic Association 2009; Xiamen, China)
215. Treatment of Mycobacterium Marinum Infection of the Hand and Wrist in 166 Patients (The 4<sup>th</sup> International Congress of Chinese Orthopaedic Association 2009; Xiamen, China)
216. A Review of Necrotizing Fasciitis in the Extremities (The 3<sup>rd</sup> International Congress of Chinese Orthopaedic Association 2008; Suzhou, China)
217. Early Striatal & Extrastriatal Cerebral Grey Matter Excess Within 3 Weeks of Anti-Psychotic Treatment in Schizophrenia (13<sup>th</sup> Biennial Winter Workshop on

Schizophrenia Research 2006; Davos, Switzerland): **Young Scientist Award**

### **Locally Organized Meetings (n=85)**

1. The use of alternate in-brace and out-of-brace radiographs to avoid masking of curve progression in adolescent idiopathic scoliosis follow-up (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021) *Best Poster Nominee*
2. The novel Proximal Femur Maturity Index for patients with idiopathic scoliosis (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021) **Best Poster**
3. Is spinal proprioception altered in adolescent idiopathic scoliosis? (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021)
4. The “asymmetric screw sign” for magnetically controlled growing rods: a novel predictive factor for success of distraction (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021)
5. Distribution of proprioceptive deficit in adolescent idiopathic scoliosis in Hong Kong: a preliminary analysis (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021)
6. Deep learning-based fully automated vertebral endplates irregularity prediction using lumbar magnetic resonance imaging (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021)
7. Long-term outcomes of early-onset scoliosis with neurofibromatosis treated by magnetically controlled growing rod: retrospective case series long-term outcomes (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021)
8. Local experience with anterior vertebral body tethering for scoliosis in Hong Kong (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021) **Best Spine Paper Award**
9. Osteogenesis imperfecta patients with scoliosis – quality of life and surgical impact (41<sup>st</sup> Annual Congress of the Hong Kong Orthopaedic Association 2021)
10. Factors affecting pain and disability in people with chronic low back pain (The Hong Kong College of Orthopaedic Surgeons 15<sup>th</sup> Rehabilitation Symposium cum the 7<sup>th</sup> Sir Harry Fang Oration) (**Best Paper Award**)
11. Objective changes in physical activity among patients with lumbar spinal stenosis following prehabilitation before surgery – a pilot randomized controlled trial (The Hong Kong College of Orthopaedic Surgeons 15<sup>th</sup> Rehabilitation Symposium cum the 7<sup>th</sup> Sir Harry Fang Oration)
12. Prediction of final body height for female patients with adolescent idiopathic scoliosis (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association)

2020)-Award session

13. AlignPro: a robust deep learning-based prediction of spinal alignments irrespective of image qualities acquired from smartphone photographs of radiographs displayed on PACS (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)-Award session
14. Using the ulna physis in improving decision-making for brace weaning in adolescent idiopathic scoliosis (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020) (**Best Poster Award**)
15. A novel mechanical parameter to quantify the microarchitecture effect on apparent modulus of trabecular bone: a computational analysis of ineffective bone mass (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)-Award poster session
16. Systematic investigation of metallosis associated with magnetically controlled growing rod implantation for early onset scoliosis (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
17. What imaging profile exists for subjects with lumbar developmental spinal stenosis? (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
18. Pedigree analysis of lumbar developmental spinal stenosis: determination of potential inheritance patterns (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
19. Population-based prevalence of multilevel lumbar developmental spinal stenosis (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
20. Clinical implications of lumbar developmental spinal stenosis on back pain, leg pain, and disability – results from a cohort of 2206 subjects (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
21. MRI-SegFlow: a deep learning-based unsupervised pipeline for vertebral segmentation of spinal MRI image (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
22. Prediction of standing radiographic lumbar lordosis by using supine MRI (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
23. Enhanced recovery after surgery (ERAS) protocol for scoliosis leads to improved postoperative outcome and earlier discharge from hospital (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
24. Comparison of proprioceptive reweighting in middle-aged patients with chronic low back pain and healthy people: a cross-sectional study (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
25. Patients' perspective regarding surgical management for lumbar spinal stenosis: a qualitative study (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic

- Association 2020)
26. Mismatch of the Risser staging, the distal radius and ulna classification and Sanders staging for peak growth in patients with adolescent idiopathic scoliosis (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
  27. The relationship between electromyographic amplitude of paravertebral muscles and curve progression in Chinese adolescents with idiopathic scoliosis: a preliminary study (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
  28. A systematic review on the effectiveness of motor control exercise in improving morphology of lumbar multifidus muscles in patients with low back pain (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
  29. A systematic review on lumbar developmental spinal stenosis (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
  30. The crooked rod sign: a new radiological sign to detect deformed threads in the distraction mechanism of magnetically controlled growing rods and a mode of distraction failure (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
  31. Establishing an easily accessible testing system for bone hardness (40<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2020)
  32. Impaired lung function and relationship to spinal deformities in patients with adolescent idiopathic scoliosis: a systematic review and meta-analysis (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
  33. Multiple skeletal maturity indices for maturity assessment: relationship between the simplified olecranon, simplified digital, and distal radius, and ulna classifications (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
  34. Responsiveness property of the traditional Chinese version of the 24-item Early-onset scoliosis questionnaires (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
  35. Effect of magnetically controlled growing rods on three-dimensional changes in deformity correction (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
  36. Validation of paediatric quality of life inventory<sup>TM</sup> (PedsQL<sup>TM</sup>) generic core scales 4.0 in Chinese patients with idiopathic scoliosis (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
  37. Curve regression timing with underarm bracing for adolescent idiopathic scoliosis: predictive factors and clinical implications (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)

38. Temporary reductions in distraction lengthening occurs in magnetically controlled growing rods: a phenomenon that defies the law of diminishing gains (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
39. Anterior cervical discectomy and fusion for cervical myelopathy using standalone tricortical iliac crest autograft: predictive factors for neurological and fusion outcomes (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
40. Patterns of coronal and sagittal deformities in adolescent idiopathic scoliosis (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019)
41. Predictors of flatback deformity during brace treatment for adolescent idiopathic scoliosis: influence of spinopelvic parameters (39<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2019) (**Best Spine Paper Award**)
42. Hong Kong Spine Surgery Registry Cervical Myelopathy (Hospital Authority Convention 2019: 21 May 2019)
43. Single cell analyses of human intervertebral discs implicate HOPX as a regulator of homeostasis (SBMS Research Day, School of Biomedical Sciences, The University of Hong Kong)
44. A study of injury mechanism: traumatic bilateral L4-5 facet dislocation – case report and literature review (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)
45. Changes in sagittal alignment in upslope or downslope: an insight into dynamic spinal stenosis symptomatology (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)
46. The influence of developmental spinal stenosis on reoperation risk at the adjacent segment after decompression surgery for lumbar spinal stenosis (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)
47. The prevalence and impact of cervical spine pathologies in patients with nasopharyngeal carcinoma (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)
48. Is cervical collar useful after laminoplasty? A randomized controlled trial (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018): Award session-**Trainee Prize** (Dr. Thomas Leung Ka Chun)
49. Psychological factors significantly influences pain perception and function in individuals with low back pain (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)
50. Over 20-years of experience of a multidisciplinary programme for rehabilitation of chronic low back pain – factors predicting successful re-integration and return to work (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)

51. The epidemiology and risk factors of back pain in adolescent idiopathic scoliosis – a large-scale study (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018)
52. Redefining guidelines for brace weaning in adolescent idiopathic scoliosis based on standardized skeletal maturity parameters (38<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2018): Award session
53. 1A.4 Psychological factors significantly influences pain perception and function in individuals with low back pain (14<sup>th</sup> Rehabilitation Symposium cum 6<sup>th</sup> Sir Harry Fang Oration: Orthopaedic Rehabilitation – Challenges and outlooks)
54. 1A.5 Over 20-years of experience of a multidisciplinary programme for rehabilitation of chronic low back pain – factors predicting successful re-integration and return to work (14<sup>th</sup> Rehabilitation Symposium cum 6<sup>th</sup> Sir Harry Fang Oration: Orthopaedic Rehabilitation – Challenges and outlooks)
55. Matching curve progression with skeletal growth in adolescent idiopathic scoliosis: insight into the best period for brace treatment (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017): **Paediatric Orthopaedics Award**
56. Novel compression rat model for developmental spinal stenosis (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017)
57. Significance of clunking with magnetically controlled growing rod distractions (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017): **Paediatric Orthopaedics Award Finalist**
58. The patterns of distractions in magnetically controlled growing rod distractions: any effect of law of diminishing returns? (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017)
59. Matching curve progression with skeletal growth in adolescent idiopathic scoliosis: insight into the best period for brace treatment (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017): **AR Hodgson Award**
60. Predictability of curve progression in adolescent idiopathic scoliosis using the distal radius and ulna classification: utility tool for initiating brace treatment (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017)
61. Outcomes and cost-saving potential of using alternate-level plating in single-door laminoplasty for cervical spondylotic myelopathy (37<sup>th</sup> Annual Congress of the Hong Kong Orthopaedic Association 2017)
62. Preliminary results of the effectiveness of a clinical pathway for adolescent idiopathic scoliosis in the Duchess of Kent Children’s Hospital at Sandy Bay (F-P8.20) (Hospital Authority Convention 2017)
63. Surgical management of scoliosis in patients with osteogenesis imperfecta – how to maximize outcome? (36<sup>th</sup> Hong Kong Orthopaedic Association Annual



- Congress 2016; Hong Kong, China)
64. The relationship of ligamentum flavum changes and developmental spinal stenosis (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China)
  65. A novel approach in the management of thoracic insufficiency syndrome in Jarcho-Levin Syndrome using a magnetic controlled growing rod – vertical expandable prosthetic titanium rib hybrid construct (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China)
  66. 5-year longitudinal magnetic resonance imaging follow-up of a population-based cohort of subjects with ossified yellow ligament: a natural history study (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China): **Trainee Prize** (Dr. Chris Tang)
  67. Proteoglycan profiling of lumbar disc displacement in humans: novel imaging biomarkers utilizing T1rho magnetic resonance imaging (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China)
  68. Ultra-short time-to-echo magnetic resonance imaging disc sign: a novel imaging biomarker associated with spine degeneration, pain, and disability (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China)
  69. The relationship of ligamentum flavum changes and developmental spinal stenosis (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China)
  70. Predictability of peak growth spurt and growth cessation using the distal radius and ulna classification (35<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2015; Hong Kong, China)
  71. Prediction of Lumbar Spinal Stenosis in Chinese: Findings from a Genome-wide Association Study (33<sup>rd</sup> Hong Kong Orthopaedic Association Annual Congress 2013; Hong Kong, China): **AR Hodgson Award**
  72. Developmental Spinal Stenosis in the Chinese Population: Presence in Patients and Redefining Critical Values on MRI (32<sup>nd</sup> Hong Kong Orthopaedic Association Annual Congress 2012; Hong Kong, China): **Arthur Yau Award**
  73. Could Both T1 and T2-weighted MRI be Used for Spinal Stenosis Analysis (32<sup>nd</sup> Hong Kong Orthopaedic Association Annual Congress 2012; Hong Kong, China)
  74. Use of a remotely distractible, magnetic controlled growing rod for the treatment of scoliosis in young children (31<sup>st</sup> Hong Kong Orthopaedic Association Annual Congress 2011; Hong Kong, China): **Arthur Yau Award**
  75. Cervical spine complications after radiotherapy for Nasopharyngeal carcinoma (31<sup>st</sup> Hong Kong Orthopaedic Association Annual Congress 2011; Hong Kong, China)

76. Long term results of distal radio-ulnar joint arthroplasty in rheumatoid patients (The 24<sup>th</sup> Annual Congress of the Hong Kong Society for Surgery of the Hand 2011; Pamela Youde Nethersole Eastern Hospital)
77. Multiple triggering in a girl with ehlers-danlos syndrome: a case report (The 30<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2010; Hong Kong, China)
78. Prevalence of post-traumatic stress disorder after orthopaedic trauma (The 30<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2010; Hong Kong, China)
79. Prognostic Factors of Mycobacterium Marinum Infection of the Hand and Wrist” (The 23<sup>rd</sup> Annual Congress of the Hong Kong Society for Surgery of the Hand 2010; Pamela Youde Nethersole Eastern Hospital): **Best Paper Award**
80. Treatment of Mycobacterium Marinum Infection of the Hand and Wrist in 166 Patients” (The 29<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2009; Hong Kong, China)
81. A Review of Necrotizing Fasciitis in the Extremities” (The 28<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2008; Hong Kong, China)
82. Depressive Disorder: Under-recognized and Under-appreciated” (Hong Kong College of Physicians 2005 Annual Scientific Meeting)
83. Mycobacterium Marinum Infection of the Hand and Wrist” (The 29<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2009; Hong Kong, China)
84. Occupational Repetitive Strain Injuries in Hong Kong” (The 29<sup>th</sup> Hong Kong Orthopaedic Association Annual Congress 2009; Hong Kong, China)
85. Stroke: The Incessant Pursuit of Optimal Therapeutic Strategies” (Hong Kong College of Physicians 2006 Annual Scientific Meeting)

## vii. RESEARCH PROJECTS & GRANTS

Competitive Grant total: **HK\$40,052,000.23**

Principal investigator: **HK\$25,030,492.5**

Additional funds (awards/donations/clinical trials): **HK\$1,073,043.73**

### **External competitive grants (Principal Investigator) (HK\$24,280,942.5)**

1. Health and Medical Research Fund (HMRF) 1/1/2022-31/12/2024: Randomized, Controlled, Single-blinded Trial to Evaluate the Efficacy and Safety of Intra-wound Vancomycin Powder as Add-on Prophylactic Intraoperative Antibiotic for High-risk Open Posterior Spinal Surgery (Ref# 08192016) (**HK\$1492928.00**)
2. 2021 Guangdong Natural Science Fund – General Programme 2021 年度廣東

- 省自然科學基金 - 面上項目: 具有临床指导意义的可量化微结构对松质骨力学性能影响的全新力学参数研究:有限元分析及其生物力学试验验证(#2114050001506) (RMB 100000/**HKD\$120668.00**)
3. Midstream Research Programme for Universities (MRP) by the Innovation and Technology Fund 8/2021-07/2024: A Non-radiation Artificial Intelligence Spine Deformity Diagnosis System (MRP/038/20X) (**HK\$7,640,738.00**)
  4. Innovation and technology fund (ITF Tier 3) 9/2019-3/2021: A novel mobile application enabling automated body contour comparison and spine alignment examination using artificial intelligence (ITS/404/18) (**HK\$1,374,774.40**)
  5. RGC Research Impact Fund 2019-2024: Early Detection of Progressive Adolescent Idiopathic Scoliosis and Optimization for Non-surgical Treatments using Novel 3D Ultrasound Imaging (Ref# R5017-18F) (**HK\$8,400,000**)
  6. Health and Medical Research Fund (HMRF) 2018-2021: A randomized controlled trial comparing gradual and immediate brace weaning for clinical management of adolescent idiopathic scoliosis (ref#: 05161356) (**HK\$947,024**)
  7. S.K.Yee Medical Foundation Grant 2018-2020: Teriparatide for improving lumbar spinal instrumented fusion outcomes in the elderly (ref#: 2171223) (**HK\$1,772,480**)
  8. AOSpine Asia Pacific Regional Research Project Grant 2018-2020: Predictive factors for successful conservative management to avoid surgery in adult deformity (CHF 30000/**HK\$240,272.1**)
  9. General Research Fund (GRF) 2016-2021: Defining indications for managing scoliosis using comparative outcomes and cost analysis (ref#:17156416) (**HK\$831,585**)
  10. General Research Fund (GRF) 2014-2019: Modic changes of the lumbar spine (ref#17117814) (**HK\$970,875**)
  11. Scoliosis Research Society (SRS) Grant 2016-2019: 3D modeling for magnetically controlled growing rods (**HK\$117,000**)
  12. Health and Medical Research Fund (HMRF) 2016-2018: Are rigid cervical collars necessary for patients undergoing open-door laminoplasty and titanium arch plates for cervical myelopathy? – a randomized pilot clinical trial (ref#:13142371) (**HK\$100,000**)
  13. Health and Medical Research Fund (HMRF) 2016-2017: Prediction classifier model for management of adolescent idiopathic scoliosis (ref#:03142306) (**HK\$100,000**)
  14. AOSpine East Asia Grant 2017-2019: A quantitative study of gait and stance characteristics for patients with cervical spondylotic myelopathy (**HK\$57,050**)
  15. AOSpine East Asia Grant 2017-2019: The pathogenesis of ligamentum flavum

hypertrophy in developmental spinal stenosis (**HK\$54,053**)

16. AOSpine East Asia Grant 2014-2016: Characteristics of ligamentum flavum hypertrophy in developmental spinal stenosis (**HK\$61,495**)

**External competitive grants (Co-investigator) (HK\$13,462,833)**

1. Health and Medical Research Fund (HMRF) 2020-2022: Use of SpineScan3D in scoliosis clinics to enhance clinic efficiency, reduce radiation risks and health care costs (ref#: 07182466) (**HK\$1,253,712**)
2. General Research Fund (GRF) 2020-2021: Inflammation induced cell dedifferentiation program in vertebral joint degeneration (ref#:17121619) (**HK\$919,972**)
3. General Research Fund (GRF) 2020-2022: Genetic study of adolescent idiopathic scoliosis in Chinese and functional analysis of a disease variant (ref#:17114519) (**HK\$892,915**)
4. General Research Fund (GRF) 2020-2022: Effectiveness of routine measurement of health-related quality of life in improving the outcomes of patients with musculoskeletal problems – a randomized controlled trial (ref #: 17100119) (**HK\$1,069,198**)
5. Health and Medical Research Fund (HMRF) 2019-2021: Identifying the genetic factors underlying congenital scoliosis in Hong Kong (ref#06171406) (**HK\$1,499,752**)
6. General Research Fund (GRF) 2019-2020: Elicitation of health state utilities for paediatric populations from the general public (ref#:17119518) (**HK\$968,347**)
7. Health and Medical Research Fund (HMRF) 2018-2020: The clinical safety and efficacy of Zoledronic acid for treatment of chronic low back pain due to Modic changes: a parallel, double-blinded, randomized controlled trial (ref #05162286) (**HK\$1,195,092**)
8. Health and Medical Research Fund (HMRF) 2018-2020: The effectiveness of prehabilitation for patients undergoing lumbar spinal stenosis surgery – a randomized controlled trial (ref#05160996) (**HK\$636,568**)
9. RGC direct allocation 2017 for 1/2018-12/2019 (Code: G-YBV3): Development of 3D spacer fabrics to prevent surgical pressure ulcers (**HK\$210,000**)
10. Innovation and technology fund (ITF Tier 3) 7/2017-12/2018: Ergonomic brace wear for adolescent idiopathic scoliosis (ITS/297/16) (**HK\$1,399,999**)
11. Innovation and technology support programme (ITF Tier 3) 2017-2019: A

novel measurement system of hand function (ITS/148/17) **(HK\$1,397,574)**

12. S.K. Yee Medical Foundation 2016-2019: Provision of diffusion tensor imaging for cervical spondylotic myelopathy diagnosis in elderly (ref#:2161216) **(HK\$770,800)**
13. Innovation and technology support programme (ITF Tier 3) 2015-2017: Development of a wearable transcranial dc-stimulator for chronic pain management (ITS/157/15) **(HK\$1,248,904)**

**Internal competitive grants (Principal Investigator) (HK\$749,550)**

1. Seed fund for basic research 2020-2022: defining indications and outcomes of brace treatment for adolescent idiopathic scoliosis (ref#201910159031) **(HK\$83200)**
2. Seed fund for translational and applied research 2020-2021: a novel and fully automated system of Cobb angle detection using deep learning: improving diagnosis and monitoring of adolescent idiopathic scoliosis (ref#201910160007) **(HK\$150000)**
3. Seed fund for basic research 2018-2019: Differential psychometric properties of EQ-5D-5L and SF-6D utility measures in low back pain (ref#201711159003) **(HK\$79320)**
4. Seed fund for translational and applied research 2018-2019: Development of an automated image processing tool for spinal canal measurements (ref#201711160001) **(HK\$138980)**
5. Seed fund for basic research 2017-2019: Biomechanical stability of cortical versus pedicle screws in the lumbar spine with relevance of bone density (ref#:201611159073) **(HK\$55,400)**
6. Seed fund for basic research 2016-2018: Microarray analysis for ligamentum flavum in lumbar developmental spinal stenosis (ref#:201511159171) **(HK\$34,490)**
7. Seed fund for basic research 2015-2017: Rat model for developmental lumbar spinal stenosis (ref#:201411159078) **(HK\$35,400)**
8. Small project funding 2014-2016: Genetic predisposition for MRI diagnosed developmental spinal stenosis (ref#:201309176137) **(HK\$72,760)**
9. Seed fund for translational and applied research 2013-2015: Low cost antimicrobial surface (ref#:201209160012) **(HK\$100,000)**

**Internal competitive grants (Co-investigator) (HK\$485,631)**

1. Seed fund for basic research 29/6/2018-28/6/2020: Functional analysis of a human familial adolescent idiopathic scoliosis (AIS) mutation in a mouse model (ref#:201711159121) (**HK\$47,590**)
2. Seed fund for basic research 2017-2019: Use of EuroQol 5-dimension youth version (EQ-5D-Y) questionnaire in a patient population in Hong Kong (ref#201711159001) (**HK\$63,460**)
3. Seed fund for basic research 2017-2019: The role of the UTE Disc Sign (UDS) on MRI in spine degeneration and low back pain: a new imaging biomarker (**HK\$39,901**)
4. Seed fund for basic research 2017-2019: Genetic studies of congenital scoliosis (ref#:201611159090) (**HK\$44,320**)
5. Seed fund for basic research 2017-2019: Intraoperative electrophysiological signals for localization and for determining the pathogenesis of iatrogenic spinal cord injuries (ref#:201611159084) (**HK\$55,400**)
6. Seed fund for basic research 2016-2018: The safety and efficacy of Zoledronic acid for the treatment of chronic low back pain due to Modic changes: a parallel, double-blinded, randomized controlled trial (ref#:201511159304) (**HK\$57,480**)
7. Seed fund for basic research 2016-2018: A prediction model based on diffusion tensor imaging for the prognosis of surgical treatment of cervical spondylotic myelopathy (ref#201511159037) (**HK\$57,480**)
8. Research Output Prize (**HK\$120,000**)

**Source from awards, donations and clinical trials (HK\$1,073,043.73)**

1. Three-dimensional analysis of scoliosis for curve prediction and identification of the genetic origins of abnormal spinal morphology (The Society for the Relief of Disabled Children: **HK\$1,043,074.00**)
2. Funding support from pharmaceutical industry: QUINTILES Asia and Latin America Fracture Observational Study (ALAFOS) (ref#200003620.065325.21000.400.01): **HK\$17,390.70**
3. From research awards: **HK\$12,579.03**
4. Funding support from pharmaceutical industry: Amgen

viii. INTERNATIONAL ORGANIZATION & EDITORIAL BOARD

1. AOSpine Asia Pacific Board Officers Nomination Committee (2022-)

2. Deputy Editor for Spine Deformity (30 Nov 2021-)
3. Senior Board Member of BMC Musculoskeletal disorders (2020-)
4. Hong Kong Medical Journal Editor (2019-)
5. Member of Genetics of Osteoarthritis Consortium  
<https://www.genetics-osteoarthritis.com/people/people/index.html>
6. Asia-Pacific Representative of ISSLS (2019-2021)
7. Associate editor for Acta Orthopaedica et Traumatologica Turcica (2017-)
8. Editor for Asian Spine Journal (2017-)
9. Associate editor for BMC Musculoskeletal disorders (2017-2020)
10. Corresponding editor for Journal of Orthopaedic surgery (2016-)
11. Associate editor for Spine Deformity (2018-30 Nov 2021)

#### ix. GRANT REVIEW BOARD

1. Research Council of KU Leuven: C24M/22/060 (2022)
2. Swiss National Science Foundation: Project funding in biology and medicine division III (2021)
3. Medical Research Council (UK) Research Boards Jan 2020 Submissions: Population & Systems Medicine Board Musculoskeletal (2020)
4. AOSpine International Grant Reviewer (2017-2021)
5. Scoliosis Research Society Research Grants Committee and grant reviewer (1/2016-12/2017)
6. AOSpine Asia Pacific Research Committee and grant reviewer (01/2016-)

#### x. MEDICAL JOURNAL REVIEWER

1. Regular reviewer for the following journals:
  - a. Clinical Orthopaedics and Related Research
  - b. Bone and Joint Journal
  - c. European Spine Journal
  - d. Spine
  - e. The Spine Journal
  - f. Global Spine Journal
  - g. PLoS One
  - h. World Neurosurgery
  - i. Spine Deformity

- j. Journal of Pediatric Orthopaedics b
- k. Hong Kong Medical Journal
- l. Neurospine
- m. Journal of Orthopaedic surgery
- n. BMC Musculoskeletal Disorders
- o. Acta Orthopaedica et Traumatologica Turcica
- p. Asian Spine Journal
- q. Journal of Orthopaedic Translation
- r. Journal of Orthopaedic surgery and research
- s. BMC Surgery
- t. BMJ open
- u. Scoliosis and Spinal Disorders
- v. Orthopedic Surgery
- w. BMJ Case Reports



### **III. KNOWLEDGE EXCHANGE ACTIVITIES**

#### **i. COMPETITIVE FUNDING (Total HK\$252,650)**

1. KE impact project funding (KE-IP-2020/21-56): Implementation of fully-automated spinal measurements into patient care (HK\$90000)
2. KE impact project funding (KE-IP-2019/20-42): Scoliosis fun day 2020 (HK\$38000)
3. KE impact project funding (KE-IP-2017/18-42): Enriching patients' knowledge of cervical spondylotic myelopathy (HK\$40,000)
4. KE impact project funding (KE-IP-2015/16-42): Enhancing scoliosis knowledge (HK\$84,650)

#### **ii. PUBLICATIONS, WEBSITE AND MOBILE DEVICE**

1. 句句有骨 - 香港大學骨科專家與你破解 37 個骨科迷思 (p20-24)
2. Public Lectures Booklet VI\_P.110-113: 兒童脊柱側彎 (2020)
3. Distal radius and ulna classification mobile app (DRUapp) since Jan 1 2017
4. Scoliosis brochure/pamphlet: information to patients and families: Jan 28 2016
5. Scoliosis knowledge website and online forum since Mar 7 2015:  
<http://skeletalmaturity.hku.hk/en/home/>
6. am730: The most common type of scoliosis – adolescent idiopathic scoliosis  
July 20 2015
7. am730: 香港大學李嘉誠醫學院矯型及創傷外科系列 (July 13 2015)

#### **iii. NEWS & PRESS RELEASES**

1. APSS Newsletter – 2<sup>nd</sup> APSS-HKU Basic Spine Course 2021 (Page 3; Issue 12/ Jan - Dec 2021)
2. <https://hkmb.hktdc.com/en/1X0AM29L/inside-china/Spine-flexing-start-up>
3. 情系腰椎大家谈 时空连线谱华章 | 腰椎外科学组系列空中学术讲堂圆满收官(21-12-2021): [https://mp.weixin.qq.com/s/dtM-kqmd5kXiTE\\_v7BW8Gg](https://mp.weixin.qq.com/s/dtM-kqmd5kXiTE_v7BW8Gg)
4. 醫健寶庫：正視脊柱側彎 及早治療免惡化 Oriental Daily News A10 (2021-07-10)

5. 正視脊柱側彎及早治療免惡化  
<https://www.med.hku.hk/en/about-hkumed/knowledge-exchange/~link.aspx?id=90EFCF0753D544BA86C02A3F9D8D261A&z=z> (10 July 2021)
6. 6<sup>th</sup> Scoliosis Patient Forum hosted by The University of Hong Kong – Shenzhen Hospital, 25/6/2020: 19:45-21:30
7. [https://aospine.aofoundation.org/about-ao-spine/news/2020/2020\\_04-study-impact-covid-19](https://aospine.aofoundation.org/about-ao-spine/news/2020/2020_04-study-impact-covid-19) (April 9 2020)
8. <https://youtu.be/7ORbKe3qbQE> (HKU MEd Health Professions Education Specialism)
9. am730: 下腰背痛腳痺乏力或成人脊柱側彎病徵 (Nov 04 2019)
10. am730: 兒童脊柱側彎 磁力生長棒助矯正 (Oct 28 2019)
11. “Explore the World of Medicine” Public lecture series 2019: Knowing more about spinal deformity: spine deformities in children (June 15 2019)
12. 談腰,天下文章尽挹京都;论脊,华夏英豪震宇内——*Chinese Keep Coming!* (June 7 2019)
13. 醫健寶庫:女童易患脊柱側彎 宜及早篩查 (May 18 2019)
14. Spinal Surgery News: Genetic clues to spinal stenosis (Dec 12 2017)  
[http://www.spinalsurgerynews.com/2017/12/genetic-clues-spinal-stenosis/25009?dm\\_i=FOB,5CHD8,KHQG0R,KNKST,1](http://www.spinalsurgerynews.com/2017/12/genetic-clues-spinal-stenosis/25009?dm_i=FOB,5CHD8,KHQG0R,KNKST,1)
15. Science Daily: Genetic Clues to Spinal Stenosis (Oct 13 2017)  
<https://www.sciencedaily.com/releases/2017/10/171013132143.htm>
16. MIMS Doctor: New MRI technology a leap forward for diagnosing degenerative disc disease (Sept 1 2017)
17. Spinal News International e-newsletter: New MRI Tool offers improved method of imaging degeneration (Aug 18 2017)  
<https://spinalnewsinternational.com/uds-linked-low-back-pain/>
18. 晴報: 磁力共振新技術 腰椎退化無所遁形 (Aug 17 2017)
19. Sing Pao: 港大發現椎間盤病徵 助評估腰椎退化 (Aug 17 2017)
20. MIMS Today: HKU scientists discover novel imaging biomarker to diagnose low back pain (Aug 17 2017)  
<https://today.mims.com/topic/hku-scientists-discover-novel-imaging-biomarker-to-diagnose-low-back-pain?country=hongkong>
21. The Standard: HKU researchers find new sign of low back pain (Aug 17 2017)
22. Hong Kong Economic Journal: 港大研究解腰椎退化之謎 (Aug 17 2017)
23. 深圳商报数字报: 港大深圳医院骨科“三名工程”揭牌 (Jun 5 2017)

24. 深圳晚报 数字报: 香港玛丽医院骨科团队入驻港大深圳医院 “三名工程”  
(Jun 5 2017)
25. 深视新闻 - 城市联合网络电视台: 脊柱外科名医团队落地港大深圳医院  
(Jun 5 2017)
26. 香港商报: 馬化騰出席港大深圳醫院三名工程揭牌 (Jun 5 2017)
27. 深圳骨科携手世界顶尖团队打造国内 脊柱病变诊疗中心 (Jun 5 2017)  
[http://news.cnr.cn/native/city/20170605/t20170605\\_523786832.shtml?from=singlemessage&isappinstalled=0](http://news.cnr.cn/native/city/20170605/t20170605_523786832.shtml?from=singlemessage&isappinstalled=0)
28. 深圳特区报: 打造顶尖脊柱病变诊疗中心 (Jun 5 2017)
29. HKU and international collaborative research team successfully develop a new predictive model for the progression of adolescent idiopathic scoliosis (Oct 1 2015)
30. 東方日報, 大公報, 文匯報, 成報, 太陽報, 香港經濟日報, 星島日報, 南華早報: 港島西醫院聯網 2015/16 新服務: 使用新電腦儀器 減低支架治療等候時間 (Sept 16 2015)
31. Teenage Orthopod Scheme (July 13-24 2015)
32. Pearl Report TVB – Spared from surgery (Mar 25 2015)
33. **Cheung JPY**, Samartzis D, Cheung KMC. Focus On : Management of early-onset scoliosis. Bone and Joint Journal. 2013.  
<http://www.boneandjoint.org.uk/content/focus/management-early-onset-scoliosis>

## **IV. TEACHING ACTIVITIES AND COMMITMENTS**

### **i. TEACHING ACHIEVEMENTS AND APPOINTMENTS**

#### *Within University*

1. Teaching Development Grant (TDG) 2022: Enhancement of Musculoskeletal Clinical Skills Through Formative Assessment in an e-Classroom (Project no. 875): \$200000 (12 months)
2. Chief Examiner (May-July 2022) MBBS Fourth Summative Assessment and Supplementary/Re-Assessment
3. MBBS Curriculum Committee (MBCC) Representative for Orthopaedics and Traumatology (Sept 1 2021-Aug 31 2023)
4. PBL Sub-committee Chairman (Sept 1 2021-Aug 31 2023)
5. HKU Disciplinary Committee (2021-present)
6. HKU Senate and Court member (2021-present)
7. Early Academic Career Development Mentorship Scheme mentor (2020-present)
8. Preceptorship Programme for MBBS Year 1 Students mentor (2020-present)
9. Master of Education (2019-2021): Completed
10. CPDG Grant (2019-2021: #00007484; #00007544) for Master of Education Health Professions Education
11. Teaching Development Grant (TDG) 2021: Advanced 3D Printed Models for Multidisciplinary Undergraduate Clinical Teaching (Project no. 842): \$298932 (12 months)
12. Chief Examiner (Research Attachment of Enrichment Year) 2021-present
13. Research convener for Enrichment year (Oct 2020-present)
14. Overseer of NMPA accreditation in Clinical Trials Centre, HKU: 2021-present
15. Department representative for the Hong Kong Genome Project: 2021-present
16. PBL Sub-committee Co-Chairman (Sept 1 2019-Aug 31 2021)
17. The Mace Bearer (9/2018 till present)
18. Health care project supervisor (2016 till present): 2016-2017 group won Professor Michael Colbourne Prize
19. MBBS II Musculoskeletal System Block Planning Committee: department representative and created new sessions including lectures and dissection sessions (2017-)
20. Enrichment year programme and elective sub-committee (2017-)
21. Enrichment year research committee member and student supervisor (2017-)

22. Faculty library committee (2014-2019)
23. Clinical skills sub-committee – musculoskeletal clinical skills coordinator
24. Special study modules (SSM) sub-committee member
25. Elective sub-committee member
26. Problem-based learning sub-committee – clinical PBL coordinator
27. PBL case writer, trainer and educator
28. MBBS2 and final MBBS minicase writer (2019-2021) and question bank (2019-2021)
29. Faculty member of China projects (HKU/QMH fellow)
30. Board of examiners for MBBS II/IV 2020, MBBS III EY 2019-2021
31. Coordinator of overseas elective studies
32. Francis Lau Scholarships for Medical Students Selection Committee (7/2017-)
33. Organizing committee for the Hong Kong International Orthopaedic Forum (2019-)
34. Organizing committee for the Hong Kong Distinguished Lecture Series (2014-)
35. Organizing committee chair for the Hong Kong Distinguished Lecture Series (2015-)

### *External*

1. **Fellow representative and committee member of the China Consortium of Elite Teaching Hospitals for Residency Education**
2. The Medical Council of Hong Kong – Internship Sub-Committee (2021-2023)
3. Member of Working Group for HKCOS Training Curriculum Review: (2020-)
4. AOSpine Trained Faculty (2017-)
5. Trainer certified by the Hong Kong College of Orthopaedic Surgeons
6. Program Committee of the Global Spine Congress 2021 (Paris, France, November 3-6 2021)
7. Scientific Committee of the 2021 Asia Pacific Spine Society Annual Meeting (13<sup>th</sup> Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, Hybrid meeting, Kobe, Japan, 9-12 June 2021)
8. Program committee of the ISSLS Virtual Annual Meeting 2021 (May 31-June 4 2021)
9. Scientific Committee of the 2020 Asia Pacific Spine Society Annual Meeting (Shanghai, China, June 5-7 2020)
10. Non-Operative Committee of Scoliosis Research Society (2019-)
11. Program committee of the ISSLS Annual Meeting 2019 (Kyoto, Japan, June 3-7 2019)
12. Scientific Committee of the 12<sup>th</sup> Combined Meeting of the Asia Pacific Spine

- Society & Asia Pacific Paediatric orthopaedic Society (Incheon, Korea, April 4-6 2019)
13. Program committee of the ISSLS Annual Meeting 2018 (Banff, Canada, May 14-18 2018)
  14. Program committee of the 53<sup>rd</sup> Annual Meeting & Course of the Scoliosis Research Society (Bologna, Italy, October 10-13, 2018)
  15. Scientific Committee of the 2018 Asia Pacific Spine Society Annual Meeting (Taipei, Taiwan, June 7-10 2018)
  16. Program committee of the ISSLS Annual Meeting 2017 (Athens, Greece, May 29 – June 2 2017)
  17. Organizing committee for the 2015 combined meeting of Hong Kong International Orthopaedic Forum with the Asia Pacific Spine Society and Asia Pacific Paediatric Orthopaedic Society in Hong Kong
  18. Asia Pacific Spine Society Anterior Column Reconstruction Focus Group Chairman (2021-)
  19. Asia Pacific Spine Society Scoliosis Focus Group (2020-)
  20. Membership Committee for Asia Pacific Spine Society (01/2016-)
  21. Basic Surgical Course Committee for Asia Pacific Spine Society (12/2017-)
  22. Research Committee Chairman for Asia Pacific Spine Society (01/2016-06/2021), member since 01/2016
  23. Research Officer for AOSpine East Asia Council (01/2016-)
  24. Research Grant Committee for Scoliosis Research Society (01/2016-12/2017)
  25. Scientific Program Committee for Scoliosis Research Society (01/2017-)
  26. Scoliosis Research Society candidate member (2015-)
  27. Asia Pacific Spine Society Active Member (2015-)
  28. Asia Pacific Orthopaedic Association Life Member
  29. The International Society for the Study of the Lumbar Spine Member (2015-)
  30. SICOT Member (2014-)
  31. Hong Kong Orthopaedic Association Member
  32. Involvement in the AO Spine Subaxial Injury Classification System Validation Group. Publication : Karamian BA, Schroeder GD, Holas M, Joaquim AF, Canseco JA, Rajasekaran S, Benneker LM, Kandziora F, Schnake KJ, Oner FC, Kepler CK, Vaccaro AR, **AO Spine Subaxial Injury Classification System Validation Group**. Eur Spine J. 2021 . doi : 10.1007/s00586-021-06818-z.[Epub]

## ii. REGULAR TEACHING

*Within University*

Approximately 58 contact hours each year for practical sessions and bedside teaching Initiator of e-learning platform for the Department of Orthopaedics and Traumatology and member of teaching committee. Additional work includes creating online learning material in form of lectures, examination videos for medical students, MCQ testing and e-logbook.

Lectures/teaching sessions include:

1. Seminar (Specialty Clerkship) – Cervical Spine Disorder
2. Lecture (Senior Clerkship) – Spine related Pain
3. Seminar (Junior Clerkship) – Spinal infections
4. Lectures (Clinical Foundation Block – Clinical Skills) – Clinical Skills Practice/Workshop – Spine
5. Lecture (MSSII) – Introduction to spinal cord/nerve compression disorders
6. PBL – Musculoskeletal System Block
7. MSSII – Anatomy practicals and dissections

*External*

1. Single position surgery: Treatment of degenerative conditions for L1-S1 in the lateral position: 20 Nov 2021 (cadaveric workshop) Inexus/Nuvasive
2. APSS-HKU Basic Spine Course: 11 Sep 2021 (lectures and sawbone workshop)
3. Higher Orthopaedic Trainee Tutorial (H4): Spondyloarthropathies, failed back and idiopathic scoliosis (Aug 22 2020)
4. Higher Orthopaedic Trainee Tutorial (H4): Spondyloarthropathies, failed back and idiopathic scoliosis (Feb 15 2020)
5. Higher Orthopaedic Trainee Tutorial (H3): Spondylolisthesis and spinal tumors (April 27 2019)
6. APSS-HKU Basic Spine Course: 25 May 2019 (lectures and sawbone workshop)
7. 2018 Lumbar Spine Surgery Workshop: Lectures & Hands-on Cadaveric Course 20-21/1/2018: lecturer and table instructor
8. Assessment of skeletal maturity: Current concepts in spine deformity SRS course, Shenzhen, China 13-15/10/2017
9. Lumbar Spine Surgery Education 2017 for Hong Kong College of Perioperative Nursing May 27 2017: Prolapsed intervertebral disc and lumbar spinal stenosis lecture, sawbone instructor

10. APSS Basic Spine Course 2017 Kuala Lumpur, Malaysia Jan 2017: Invited international lecturer: Bone grafting, complications of cervical surgeries, sawbone instructor
11. 7<sup>th</sup> Spine Deformity Solutions: a hands-on course (Scoliosis Research Society and Asia Pacific Spine Society) Oct 28-30 2016: Fireside chats and cadaveric course instructor

### iii. STUDENTS

#### PhD

1. Zuo Zeyuan (**HKU Presidential PhD Scholar**) since 2022
2. Cheung Wing Ki (Full-time PhD) since 2021: Musculoskeletal ultrasound
3. Zhao Moxin (Full-time PhD) since 2020: Medical Imaging processing
4. Lau Ki Lee (Full-time PhD) (Co-supervisor) since 2020: Spine Surgery
5. Kuang Xihe (Full-time PhD) since 2019: Biomedical Engineering
6. Fan Yunli (Part-time PhD) since 2019: Scoliosis pathology and conservative management
7. Yue Ming (Full-time PhD) (Co-supervisor) since 2018: bioinformatics
8. Jin Yongqiang (Full-time PhD) since 2017: Osteoporotic bone and relation of activation neurons regulate PTH
9. Wang Xiaolu (Full-time PhD) since 2017: Functional studies of adolescent idiopathic scoliosis (Graduated) Thesis: Molecular basis of adolescent idiopathic scoliosis
10. Cheung Wing Hang Prudence (Part-time MPhil) since 2017 switched to (Part-time PhD) since 2019: Skeletal maturity (Graduated) Thesis: Spinal growth: deciphering the rosetta stone
11. Li Xiaodong (Full-time PhD) (Co-supervisor) since 2015: studies on biomedical engineering (Graduated) Thesis: New measurement and treatment technologies for hand function rehabilitation
12. Li Guangsheng (Part-time PhD) (Co-supervisor) since 2015: biomedical engineering (Graduated) Thesis: Neurovascular unit remodeling in cervical spondylotic myelopathy
13. Cora Bow (Part-time PhD) since 2015: degenerative disc disease (Self-withdrawn)

#### MPhil

1. Chai Yuanjun (Full-time MPhil) (Co-supervisor) since 2022: Biomechanical



### Engineering

2. Wu Hao (Full-time MPhil) since 2019: Spine Biomechanics (Graduated) Thesis: Radiographic evaluation of the effectiveness, complication, and limits of oblique lateral interbody fusion (OLIF)
3. Cheung Wing Ki (Full-time MPhil) since 2018: musculoskeletal ultrasound (Graduated) Thesis: use of ultrasound shear wave imaging in understanding low back pain
4. Chen Zheyi (Full-time MPhil) since 2017: studies on scoliosis genetics (Graduated) Thesis: impact of postures on Cobb angle measurements in scoliosis new mouse models
5. Chan Tin Yan (Part-time MPhil) since 2015: studies on biomedical engineering (Graduated) Thesis: An automated region of interest (ROI) segmentation tool on diffusion tensor imaging of the cervical spinal cord

### MRes

1. Marcus Kin Hong Lai 2019-2020: Prevalence, radiological and clinical spinal phenotypes associated with lumbar developmental spinal stenosis
2. Justin Ho Ming Leung 2020-2021: Cervical spine phenotypes
3. Lester Po Kwan Wong 2020-2021: Prediction of brace outcome in adolescent idiopathic scoliosis

### Enrichment Year Research Attachment

1. Cheung Tin Yan Samuel (Full-year) 2021-2022
2. Choi Hing Chung (S1) 2021-2022
3. Tai Tsz Ching (S1) 2021-2022
4. Tong Ling Yin Marvin (S1) 2021-2022
5. Wan Hiu Tung (S1) 2021-2022
6. Wu Cheuk Him (S1) 2021-2022
7. Wong Hei Lung (Full-year) 2020-2021
8. Tam Hei Lam (S2) 2020-2021
9. Chan Ming Hei Holy (S2) 2020-2021
10. Lam Wai Yi (S1) 2020-2021
11. Lam Chak Hei Jack (S1) 2020-2021
12. Yeung Matthew Hei-yu (S2) 2019-2020
13. To Ka Ho (S2) 2019-2020
14. Lee Chun Hei (S2) 2018-2019
15. Mak Trixie (S2) 2018-2019
16. Yeung Kam Leung Kenneth (S1) 2018-2019

17. Siu Pak Ying Pansy (S1) 2018-2019
18. Chung Austin (S1) 2018-2019
19. Chong Christopher Hiu-wo (S1) 2018-2019

### Research Internship Scheme/Elective Research Attachment

- Clinical research on spine deformity and degenerative disease
1. Leung Chun Hin Henry (FT) MBBS1 (July 1 2021-Aug 31 2021)
  2. Yeung Alexis Nok Ming (PT) MBBS1 (Sep 2 2021-Apr 17 2022)
- Orthopaedic biomechanics and implant design
3. So Chun Kiu Ryan (FT) MBBS1 (July 1 2021-Aug 31 2021)
- Radiation-free Auto-Diagnosis of Spine Pathologies Using Machine Learning
4. Liu Hoi Ying Alicia (PT) MBBS1 (Sep 1 2021-Jun 30 2022)
- Artificial Intelligence in Spinal Deformity Assessment
5. Khoo Jun Ren Isaac (FT) MBBS4 (July 1 2021-Aug 31 2021)
  6. Tung Gim Wai Eddie (PT) MBBS5 (2021)
  7. Lam Tin Chung Adrian (PT) MBBS5 (2021)
  8. Yeung Cheuk Hin Anson (PT) MBBS5 (2021)
- AI and machine learning with spine imaging
9. Wong Li Liang Darren (PT) MBBS4 (Sep 1 2021-Jun 30 2022)
  10. Lee Pui Yu Joyce (PT) MBBS4 (Sep 1 2021-Apr 10 2022)
- AI image processing of the spine
11. Khor Joyce E Lyn (FT) BBiomedSc2 (July 6 2020-Aug 28 2020)
  12. Chu Kenneth (FT) MBBS1 (July 2 2020-Aug 28 2020)
  13. Lau Hui En (FT) MBBS1 (July 2 2020-Aug 28 2020)
  14. Lee Wai Yan (FT) MBBS2 (July 2 2020-Aug 28 2020)
  15. Chan Pui Kiu (FT) MBBS4 (July 6 2020-Aug 28 2020)
  16. Yeung Matthew Hei Yu (PT) MBBS3 (July 2020-June 2021)
  17. Wong Darren Li Liang (PT) MBBS3 (Sep 1 2020-Apr 30 2021)
- AI screening of scoliosis
18. Choy Wai Chak (FT) MBBS3 (July 2 2020-Aug 28 2020)
- Factors affecting curve progression in scoliosis patients undergoing underarm bracing
19. Chin Ching Tung (PT) MBBS1 (Sep 1 2020-Jan 29 2021)
- Discussing the use of convolutional neural network in anteroposterior X-ray Cobb angle measurement
20. Lau Yat Fan (PT) MBBS1 (Sep 1 2020-May 31 2021)

### Thesis Examiner

1. Tsang Ho Yin (PhD) Supervisor: Brian Hon-Yin Chung (Department of Paediatrics and Adolescent Medicine, The University of Hong Kong): Exome sequencing in paediatric neurogenetic diseases (2022)
2. Chung Kai Lun (EngD) Supervisor: Zheng, Yongping (Department of Biomedical Engineering, The Hong Kong Polytechnic University): Cloud-based Wearable Plantar Force Sensing and Feedback System (2020)
3. Dong Jinping (PhD) Supervisor: Wei-Ning Lee (Department of Electrical and Electronic Engineering, The University of Hong Kong): Noninvasive assessment of muscle mechanics using biomedical ultrasound and acoustoelastic theory: from simulation to phantom fabrication and *in vivo* studies (2020)
4. Li Chentian (PhD) Supervisor: Wing Yuk Ip/William W Lu (Department of Orthopaedics and Traumatology, The University of Hong Kong): Investigation of localized bone density and microarchitecture changes in osteoporotic vertebral fracture from routine-CT scans (2020)
5. Ni Wang (PhD) Supervisor: Bo Gao (School of Biomedical Sciences, The University of Hong Kong): Molecular basis of carpal tunnel syndrome (2019)
6. Li Ning (PhD) Supervisor: Gilberto KK Leung (Department of Surgery, The University of Hong Kong): Vitamin D3 promotes locomotor recovery by enhancing myelin integrity after experimental traumatic spinal cord injuries (2019)
7. Koh Hui Yu (MPhil) Supervisor: Kenny Yat Hong Kwan (Department of Orthopaedics and Traumatology, The University of Hong Kong): Development of a rhBMP-2-binding peptide amphiphile carrier for spinal fusion: a porcine model (2019)
8. Wong Ka Wai (PhD) Supervisor: Michael Kai Tsun To (Department of Orthopaedics and Traumatology, The University of Hong Kong): Role of IFITM5 c.-14C>T Mutation in Type V Osteogenesis Imperfecta (2017)
9. Wang Yazhou (PhD) Supervisor: Yong Hu (Department of Orthopaedics and Traumatology, The University of Hong Kong): Time-frequency components of somatosensory evoked potentials in relation to the location of the spinal cord injury (2017)
10. Li Xiang (PhD) Supervisor: Keith Dip Kei Luk/Yong Hu (Department of Orthopaedics and Traumatology, The University of Hong Kong): Application of diffusion tensor imaging in precise assessment of cervical myelopathy (2016)
11. Shen Wei (MPhil) Supervisor: Michael Kai Tsun To (Department of Orthopaedics and Traumatology, The University of Hong Kong): Study on cell type dependent effects of silver nanoparticles reveals a differential toxicity towards M1 and M2 macrophages: implications on cartilage (2015)

iv. OTHER COMMITMENTS

1. Host of Multiple Mini Interviews (MMI): King's College Mock Interview Session (Feb 20, 2019)
2. Elective student supervisor (2014-) for Department of Orthopaedics and Traumatology
3. Author of e-video for medical students: lumbar spine physical examination 5/2017
4. Internal examiner for MPhil, PhD and MBBS programs including Clinical Competency Tests and Final Summative Assessments
5. Trained PBL tutor and educator, Institute of Medical and Health Science Education, Faculty of Medicine
6. Interviewer for JUPAS and non-JUPAS applicants to the university
7. Organizer of department journal club

## **V. CLINICAL SERVICE**

### **i. SPINE SURGERY**

1. Introduced the preoperative and postoperative pathway for general spine surgery at Queen Mary Hospital
2. Introduced the Adolescent Idiopathic Scoliosis clinical pathway at Duchess of Kent Children's Hospital
3. Introduced the Spinal Cord Injury clinical pathway at Queen Mary Hospital
4. Supervision of patient care in division of spine surgery at Queen Mary Hospital and Duchess of Kent Children's Hospital
5. Specialist on-call for spine surgery
6. Trainer to residents and overseas fellows
7. Division of Spine Surgery liaison for medical records administration
8. Co-applicant for Hospital Authority annual plan program-16-076HKW: "Enhance rehabilitation of back and neck pain patients in HKWC"

### **ii. HONG KONG CHILDREN'S HOSPITAL**

1. Development of scoliosis service
2. Provides consultation services for spine-related patients
3. Development of a teaching/training hub

### **iii. GENERAL ORTHOPAEDICS**

1. Provides consultation services for spine-related patients
2. 4<sup>th</sup> call and provides on-call supervision to 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> call colleagues
3. Provides inter-department consultation

### **iv. HKU-SHENZHEN HOSPITAL**

1. Co-investigator of three famous project/三名工程 (Obtained funding of RMB 18,000,000)
2. 助理学科带头人: 深圳市医学重点学科 (2020-2024 年) (重点专病)
3. 广东省医学科研基金 (范云丽)
4. Clinical Associate Professor and Honorary Consultant (2018-)

v. GLENEAGLES HONG KONG

1. Chief of Service for Orthopaedics and Traumatology (1/1/2022-)
2. Clinical Associate Professor and part of the scoliosis excellence unit
3. Provides spine consultation and surgery