

Contact

www.linkedin.com/in/vaikunthanrajaratnam (LinkedIn)
handsurgery.activemoodle.com/
(Personal)
scholar.google.com/citations
(Portfolio)
www.ktph.com.sg/services/medical-specialties/orthopaedic-surgery (Company)

Top Skills

Educational Content Creation
Learning Design
Generative AI Tools

Languages

English (Native or Bilingual)
Malay (Native or Bilingual)
Tamil (Elementary)
Cantonese (Limited Working)

Certifications

Medical Specialist Panel, Workmen's Compensation Medical Board
AI and Robotics (Beginners)
Fellow of the Academy of Medical Educators
National Medical Ethics Committee

Honors-Awards

Winner Alexandra Health Systems Quality Convention 2016

Publications

Understanding Hand Surgery
Artificial Intelligence for Health Professionals: Transforming Practice, Teaching, and Research
Instructional Design - Science of Effective Teaching: FOR HEALTHCARE PROFESSIONALS

Vaikunthan Rajaratnam

Hand Surgeon, Medical Educator, and Instructional Designer -
Passion-Driven, Compassion-Founded: Where Work and Life Unite
Singapore

Summary

Vaikunthan Rajaratnam is an internationally accredited and passionate hand surgeon, medical educator, and instructional designer with four decades of clinical practice, teaching, and faculty development. He is a key player in developing public and health professional education through leadership while enabling and empowering learners and teachers through technology. Vaikunthan is an active and practicing medical ethicist and researcher in clinical and educational domains and mentors teams in authentic and real-world action research. He is a committed humanitarian and activist with extensive experience in clinical and health professional education across borders. Vaikunthan advocates democratizing learners with a blended approach enhanced with open-access platforms and educational technology. He is a lifelong learner with effective communication and global collaboration assets through extensive networks.

Vaikunthan is a Senior Consultant Hand Surgeon at KTPH National Healthcare Group and a Clinical Senior Lecturer at the School of Medicine, National University of Singapore. He is also the Program Director of Instructional Design and Artificial Intelligence for Healthcare Professionals at NHG College, Singapore. Additionally, he is an APU-UNESCO Chair Partner & Adjunct Professor at the Asia Pacific University of Technology & Innovation (APU) Malaysia.

He is a Fellow of the Academy of Medical Educators (UK), the Faculty of Surgical Trainers, the Royal College of Surgeons, Edinburgh, and the Higher Education Academy (UK). Vaikunthan also examines various prestigious institutions, including the Royal College of Surgeons Edinburgh and the National University of Singapore.

Vaikunthan's research interests include hand surgery, orthopaedic surgery, microsurgery, medical education, instructional design,

The Future of Words: AI's Transformative Role in Academic Writing

Echoes of the Mind: Unravelling the Mysteries of Cognition and Consciousness

technology, Generative AI in education and research, and surgical volunteerism. He has designed and developed an online teaching program for health professional research and has mentored surgeons in Europe, US and Asia.

He has extensive experience in teaching and training, curriculum development, research, and administration. Vaikunthan has also designed and developed ambulatory surgical centres and is familiar with modern healthcare management.

Vaikunthan is a prolific author who has published several books and journal articles and is an academic journal reviewer.

Publications:

<https://tinyurl.com/VAIKUNTHANSCHOLAR>

ORCID iD <https://orcid.org/0000-0001-7498-4995> and Generative AI in teaching research and practice.

Experience

RCSI & UCD Malaysia Campus

Honorary Professor

October 2024 - Present (5 months)

Penang, Malaysia

Binary University

Research Fellow at The Centre for Artificial Intelligence and Data Analytics (CAIDA)

September 2024 - Present (6 months)

Greater Kuala Lumpur

De Montfort University

Honorary/Invited Professor, Faculty of Computing Engineering and Media

July 2024 - Present (8 months)

Leicester, England, United Kingdom

National Healthcare Group

5 years

Program Director AI FOR HEALTH PROFESSIONALS

May 2024 - Present (10 months)

Singapore

AI FOR HEALTH PROFESSIONALS: TRANSFORMING PRACTICE, TEACHING, AND RESEARCH

- Formulate and set the strategic learning direction for the Programme;
- Provide advisory guidance on the programme structure, learning content and pedagogical approaches, nomination and selection of faculty, so as to maintain a high standard of learning and programme delivery;
- Identify and provide advice on current issues related to the programme; promoting and adopting best development practices and benchmarks, so as to ensure a high quality, integrated and relevant learning curricula;
- Conduct training or coaching in areas of the programme;
- Assist to promote close synergies between the programme and other healthcare institutions and help solicit support for the programme in line with NHG's vision and strategic priorities;
- Advise on twinning or collaborative learning initiatives between the programme and local/ international/ governmental health care agencies, academic institutions of higher learning, industry-led organisations and associations, where necessary;

Program Director for Instructional Design for Healthcare Professionals

March 2020 - Present (5 years)

Singapore

Instructional Design for Healthcare Professionals

Asia Pacific University of Technology and Innovation (APU / APIIT)

Adjunct Professor, Innovative Digital Learning,

September 2023 - Present (1 year 6 months)

Kuala Lumpur, Federal Territory of Kuala Lumpur, Malaysia

Designing, Developing and Delivering AI competencies among teachers and learners

Advising on policy and frameworks on the use of AI in education and Healthcare

Designing research on the use of AI in education and healthcare

Khoo Teck Puat Hospital

Senior Consultant

August 2011 - Present (13 years 7 months)

Singapore

Hand and Reconstructive Microsurgery Service at the Department of
Orthopaedic Surgery

Open University Malaysia

ADVISORY BOARD MEMBER for MASTER OF INSTRUCTIONAL
DESIGN AND TECHNOLOGY (MIDT)

October 2020 - Present (4 years 5 months)

Kuala Lumpur, Federal Territory of Kuala Lumpur, Malaysia

Perdana University

9 years 7 months

Adjunct Faculty, School of Occupational Therapy

April 2014 - October 2023 (9 years 7 months)

Assist in academic activities of the School

Director for Online Courses

April 2014 - March 2020 (6 years)

Develop and Manage Online courses

Tan Tock Seng Hospital

Visiting Consultant Hand and Reconstructive Microsurgery

October 2011 - September 2012 (1 year)

Singapore

Visiting Consultant in Hand and Reconstructive Microsurgery

New Queen Elizabeth Hospital Birmingham

Consultant Hand Surgeon

November 2003 - August 2011 (7 years 10 months)

New Queen Elizabeth

Hospital Birmingham

UHB NHS FT,

Mindelsohn Way

Edgbaston, Birmingham

B15 2WB

Tel: 0121 627 2000

The Royal Orthopaedic Hospital

Consultant Hand Surgeon

April 2002 - August 2011 (9 years 5 months)

Elective hand surgery practice consisting of peripheral nerve entrapment, arthritis of the hand, tumours of the hand and deformity correction of the hand.

Subang Jaya Medical Centre

Consultant Orthopaedic Hand and Microsurgeon

April 1989 - February 2002 (12 years 11 months)

General Orthopaedic and reconstructive microsurgery private practice

University of Malaya

3 years 3 months

Lecturer

March 1986 - March 1989 (3 years 1 month)

Lecturer in Orthopaedic Surgery

Lecturer and Clinical Specialist

January 1986 - January 1989 (3 years 1 month)

Lecturer in Orthopaedic Surgery for University of Malaya Faculty of Medicine

the Clinical Research Centre

Orthopaedic Registrar

September 1985 - February 1986 (6 months)

Stanley Johnson Fellow in experimental microsurgery and General Orthopaedic registrar

Northwick Park Hospital

1 year 7 months

Stanley Johnson Research Fellow

September 1985 - February 1986 (6 months)

Conceptualised and developed experimental model to study the effects of revascularization of avascular bone using a AV shunt in the rabbit using micro vascular techniques. Presented at the Third Congress of International Federation of Societies for Surgery of the Hand

Senior House Officer and Registrar

August 1984 - September 1985 (1 year 2 months)

Basic orthopaedic training

Mount Vernon Regional Centre
Senior House Officer and Registrar
September 1984 - June 1985 (10 months)
Basic Plastic Surgery training

University Hospital
Medical Officer Training
January 1981 - January 1984 (3 years 1 month)
Basic Orthopaedic training

Education

Royal College Of Surgeons Edinburgh
Fellow of Faculty of Surgical Trainers (FFSTEd), Surgery · (1984 - 2013)

Academy of Medical Educators UK
FAcadMEd, Medical Education

The University of Dundee
Diploma MedEd, Medical Education · (2009 - 2013)

Federation of European Societies for Surgery of the Hand
Diploma Hand Surgery, Hand Surgery · (2004 - 2006)

University of Rushmore
MBA, Business Adminsitration · (2001 - 2002)