

# YIJUN CAI MBBS FRCOphth PgDipCRS (Dist.) CILT AFHEA

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## Education and Qualifications

MBBS Bachelor of Medicine and Surgery, Barts and The London Medical School 2017

## CILT (Merit Award) Certificate in Learning and Teaching, Queen Mary University of London 2018

AFHEA Associate Fellowship of the Higher Education Academy, Queen Mary University of London 2018

FRCOphth Royal College of Ophthalmologists 2023

PgDipCRS (Distinction Award) Postgraduate Diploma in Cataract and Refractive Surgery 2024

## Professional Experience

Research Elective at Wilmer Eye Institute, Johns Hopkins University 2017

Co-Investigator for PETRA study 2018

ST1 Ophthalmology at King's College Hospital NHS Foundation Trust 2019-2020

Investigator for MERCURY 3 randomized controlled trial, King's College Hospital NHS Foundation Trust 2019-2020

Patient recruitment and consent, clinical examination of recruited patients and documentation of findings based on

study protocol, liaison with PI and Sponsor

ST2-ST3 Ophthalmology at Moorfields Eye Hospital NHS Foundation Trust 2020-2022

ST4-ST5 Ophthalmology at Kingston Hospital NHS Foundation Trust 2022-2024

ST6 Ophthalmology at Guy's and St Thomas` NHS Foundation Trust 2024 - 2025

ST7 Ophthalmology Cornea Fellow at Kings College Hospital NHS Foundation Trust 2025 - present

## Awards/Prizes

### MBBS Merit Awards (Parts 1 and 3) 2013, 2015

British Medical and Dental Students'(BMDST) Trust Elective Award 2017

### Certificate in Learning and Teaching (Merit Award), Queen Mary University of London 2018

North Central & East London Foundation School Certificate of Merit 2018

## Regional Audit Presentation 2nd Prize 2022

ESCRS Trainee Bursary Prize for High Scoring Poster 2023

## Moorfields Aylward QIPP Awards Nominee 2024

Moorfields Eye Charity Research Enhancement Grant Award 2024

PgDipCRS Distinction Award 2024

## Publications

En face optical coherence tomography angiography for corneal neovascularisation. Marcus Ang, Yijun Cai, Shahab Shahipasand, Dawn A Sim, Pearse A Keane, Chelvin C A Sng, Catherine A Egan, Adnan Tufail, Mark R Wilkins. British Journal of Ophthalmology 2016

Optical coherence tomography angiography and indocyanine green angiography for corneal vascularisation. Marcus Ang, Yijun Cai, Becky MacPhee, Dawn A Sim, Pearse A Keane, Chelvin C A Sng, Catherine A Egan, Adnan Tufail, Daniel F Larkin, Mark R Wilkins. British Journal of Ophthalmology 2016

Swept Source Optical Coherence Tomography Angiography for Contact Lens-Related Corneal Vascularization. Marcus Ang, Yijun Cai, Anna C S Tan. Journal of Ophthalmology 2016

Serial optical coherence tomography angiography for corneal vascularization. Yijun Cai, Jorge L Alio Del Barrio, Mark R Wilkins, Marcus Ang. Graefes Arch Clin Exp Ophthalmol. 2017

Microperimetry and swept-source optical coherence tomography in the assessment of the preferred retinal locus in a child with macular retinoblastoma in the remaining eye. Kenneth P. Johnson, Aisha McLean Rubin, Aadil M. Hussain, Vasiliou Papastefanou, Yijun Cai, Mandeep Sagoo, Ashwin Reddy. Journal of the American Association for Pediatric Ophthalmology and Strabismus 2018

Clinical Outcomes of a Hospital-based Teleophthalmology Service: What happens to patients in a virtual clinic? Christoph Kern, Karsten Kortuem, Robin Hamilton, Sandro Fasolo, Yijun Cai, Konstantinos Balaskas, Pearse Keane, Dawn Sim. Ophthalmology Retina 2019

Comment on: Nahum et al "Spontaneous Descemet Membrane Detachment After Penetrating Keratoplasty-Clinical Presentation and Outcome of Air/Gas Descemetopexy". Yijun Cai, Maria Phylactou, Alfonso Vasquez-Perez. Cornea 2022

Retrospective analysis on the outcomes of contact lens-associated keratitis in a tertiary centre: an evidence-based management protocol to optimise resource allocation. Yijun Cai, Noah Clancy, Martin Watson, Gordon Hay, Romesh Angunawela. British Journal of Ophthalmology 2024

Establishing the ground truth for keratoconus progression: combining repeated measures and adapting precision limits to disease severity in tomography. Shafi Balal DS, Yijun Cai, Lynn Kandakji, Siyin Liu, Pdraig Mullholand, Marcello Leucci, Nikolas Pontikos, Daniel Gore, Bruce Allan. Journal of Cataract and Refractive Surgery 2025.

## Non-peer reviewed publications

The Importance of Triage in Eye Emergency Care. Yijun Cai, Sudeshna Patra. Foundation Year Journal 2015

## Journal Peer Reviewer (invited)

British Journal of Ophthalmology

BMJ Open Quality

International Ophthalmology

## Oral Presentations

International

Yijun Cai et al. Management Of Contact Lens Associated Keratitis : An 8-Month Longitudinal Study In A Tertiary Referral Centre, ESCRS 2023.

Yijun Cai et al. A Novel Virtual Cataract Clinic Protocol With Anterior And Posterior Segment Imaging - A Complimentary Solution To Meet Increasing Demand For Cataract Services, ESCRS 2024.

Yijun Cai et al. Retrospective Analysis On The Visual And Refractive Outcomes Following Combined Removal Of Silicone Oil (ROSO) And Cataract Surgery, ESCRS 2025.

National

Yijun Cai et al. Retrospective study on the effect of the Covid-19 lockdown on Vitreoretinal (VR) presentations to the Eye Casualty Clinic. BEAVRS meeting 2020.

**Yijun Cai et al. Audit on the outcomes of contact lens associated keratitis (CLAK), UKISCRS 2022.**

Regional

**Yijun Cai. Audit on the outcomes of contact lens associated keratitis (CLAK), South London Regional Audit Day 2022.**

**Yijun Cai. Retrospective analysis on the outcomes following combined removal of silicone oil (ROSO) and cataract surgery, South London Regional Audit Day 2024.**

## Poster Presentations

International

Yijun Cai et al. Anterior Segment Angiography using a Novel Spectral Domain Optical Coherence Tomography System, ARVO 2015.

Yijun Cai et al. Longitudinal analysis of the foveal avascular zone in diabetic retinopathy using optical coherence tomography angiography, ARVO 2016.

Yijun Cai et al. Evaluation of Virtual Clinic follow-up for medical retina patients in a tertiary eye care referral centre, ARVO 2018.

Yijun Cai et al. Visual Outcomes Of Immediate Sequential Bilateral Cataract Surgery With Premium Toric And Non-Toric Intraocular Lenses. ESCRS 2024.

Yijun Cai et al. A Retrospective Analysis Comparing The Outcomes Of Standard And Accelerated Crosslinking In Paediatric Patients With Keratoconus. ESCRS 2025.

National

Yijun Cai et al. A novel virtual cataract clinic protocol with anterior and posterior segment imaging: a complimentary solution to meet increasing demand for NHS cataract services, UKISCRS 2023.

## Video Presentations

International

Yijun Cai. A Case Of Traumatic Cataract With Hidden Perils, Video Competition, ESCRS 2024.

## Leadership/Management

Team Leader for Overseas Aid Mission in Cambodia (2014)

Treasurer of Barts and the London Ophthalmology Society Committee (2015-2016)

Co-President of Barts and the London Ophthalmology Society Committee (2016-2017)

F1 Trainee Representative, Newham University Hospital, Barts Health NHS Trust (2017-2018)

Lead Editor for Dr Toolbox, Barts Health NHS Trust (2017-2018)

Trust BMA Junior Doctors Representative (2017-present)

## Lead organiser for South London Regional Teaching on Paediatric Ophthalmology (2021)

BMA Representative Course (2022)

Quality Improvement Lead: Clinical outcomes of contact lens associated keratitis (CLAK), Moorfields Eye Hospital St George's (2023), with recommendations for change in clinical practice, presented at ESCRS 2023 and UKISCRS 2022, published in the BJO

Quality Improvement Lead: Lead for novel virtual cataract clinic at Moorfields with anterior segment imaging (2022 – present) – service pathway design, authored protocols, implementation, audit, presented at ESCRS 2024, UKISCRS 2023 demonstrating positive outcomes

## Teaching Lead for Royal Eye Unit, Kingston Hospital NHS Foundation Trust (2022-2023)

Business Case lead for MS39 Acquisition, Royal Eye Unit, Kingston Hospital NHS Foundation Trust (2023-2024)

Author of Trust Cataract Service SOP for Royal Eye Unit, Kingston Hospital NHS Foundation Trust (2024)

## 2-day Medical Leadership & Management Course (Oxford Medical) (2024)

## Edward Jenner Leadership Programme: Courses 0 to 3 completed (2024)

Shadowing Trust Management (2024)

Business case draft to New Procedures Committee to introduce Mitomycin Intravascular Chemoembolisation (MICE), Kings College Hospital NHS Foundation Trust (2025)

## Audit/Quality Improvement

Audit Lead: Retinoblastoma Patient Satisfaction Audit at Royal London Hospital, Barts Health NHS Trust, completed re-audit cycle (2016)

Audit Lead: Inferior Oblique Recession and Myectomy Squint Surgery Audit, Queens Hospital Romford (2018)

Audit Lead: Audit on Compliance with NICE guidelines in the assessment of new patients in the Glaucoma Clinic, Newham University Hospital (2019)

Member of Serious Incident (SI) panel (2021)

Audit Lead: Patient Notification of Appointment in the Adnexal Service, Moorfields Eye Hospital (2021)

Audit/Quality Improvement Lead: Audit on clinical outcomes of contact lens associated keratitis (CLAK) at Moorfields Eye Hospital St George's (2023), with recommendations for change in clinical practice (presented at ESCRS 2023 and UKISCRS 2022, published in the BJO)

Audit/Quality Improvement Lead: Evaluation of pilot virtual cataract service model at St George's Hospital (2021-2024), positive outcomes demonstrated (presented at ESCRS 2024, UKISCRS 2023)

Audit on Risk of Intraocular Pressure Rise and Steroid Induced Glaucoma in Patients with Fuchs' Endothelial Dystrophy Undergoing Descemet's Membrane Endothelial Keratoplasty (DMEK) (2023) (presented at EuCornea 2023)

QI Lead: Cornea Clinic Nurse Assessment Tool (2023)

Author of Trust Cataract SOP at Royal Eye Unit, Kingston Hospital (2024)

**Audit Lead: Visual Outcomes Of Immediate Sequential Bilateral Cataract Surgery With Premium Toric And Non-Toric Intraocular Lenses (2024) (presented at ESCRS 2024)**

**Audit Lead: Outcomes following combined removal of silicone oil (ROSO) and cataract surgery (2024)**

**Audit/QI project on Improving Precision in Corneal Optical Coherence Tomography in Keratoconus (2024)**

Author of Mitomycin Intravascular Chemoembolisation (MICE) patient information leaflet

## Teaching

**Developed And Delivered A Customised Teaching Project For 3rd Year Undergraduate Medical Students 2017**

**Delivery of local/regional teaching in preferred subspecialty - Conjunctival Lymphoma 2024, Capsular Block Syndrome 2020**

Documented supervision of junior trainees in surgery: supervised cataract surgery (including ST1) - 52, other procedures (aqueous and vitreous tap/inject, abscess drainage, lid laceration repair, corneal gluing, retinopexy, PRP, eyelid botox) - 17

**Delivery of dry/wet lab to peers: Moorfields Microsurgical Skills Course faculty teaching cornea suturing skills (2022-present)**

**Delivery of dry/wet lab to peers: Ophthalmology Suturing Skills Teaching Lead for Royal Free Hospital medical students in the Ophthalmology module - practical dry lab session on suturing (2023)**

**Formal teaching of medical students/other medical staff/allied staff: Proliferative Vitreoretinopathy, Ectropion, Pseudoexfoliation, Hyphaema, Chalazion, Coats Disease, Brolucizumab, Retinal Vein Occlusion**

## St George's Medical Student Virtual Teaching for Surgical Society (2021)

## St George's Medical Student Teaching for Ophthalmology Module – Practical skills on Fundoscopy (2021)

## Designed, organised and delivered South London Regional Teaching Programme on Paediatric Ophthalmology (2021)

## Teaching Lead for Royal Eye Unit, Kingston Kingston Hospital NHS Foundation Trust (2022-2023)

Attendance at TTT course: Teach the Teacher course 2019 ((2-day face-to-face)

Attendance at TTT course: RCOphth TTT for supervisors (2023)

## Informal teaching for ophthalmology technicians on Tear Film Break Up Time (TBUT) (2025)

Designed, organised and delivered a Phacoemulsification Complications Simulation dry-lab for South London trainees (2025)

Organiser of Endoart wet lab for KCH (2025)

Examiner for medical student final year OSCE at King's College London School of Medicine (2026)

## Courses attended

UKISCRS YOP Home Simulation - Corneal lacerations 18/3/21 using model eye and phone camera for virtual supervision

LOTN/HEE Advanced Surgical Simulation Course (AC-IOL, globe rupture repair, PK, ECCE) 11/03/23

RCOphth Cornea Curriculum Course (2 days) by Prof Harminder Dua with wet lab on PK, DALK and AMT (5-6th October 2023)

UKISCRS Anterior Segment Course (dry-lab corneal trauma suturing, iris trauma suturing) 01/11/23

London Eye Course (DMEK wet-lab with human eyes, Western Eye Hospital) 15/06/24

Moorfields DALK Course (wet-lab with human eyes) 12/07/24

Moorfields Refractive Course 12/04/24

London Laser Refractive Surgery Course 2024

Forefront Refractive Surgery Course (London Vision Clinic) 8-11th May 2025

Forefront Therapeutic Refractive Surgery Course (London Vision Clinic) 7-8th November 2025

## Meetings/Webinars attended

Moorfields International Cornea and Cataract Symposium 2019, 2021-2025

Scope Webinar 18/11/20 - Dry Eye Management in Primary Care

Thea Webinar 28/1/21 - "Preparing the patient for Cataract Surgery: Optimising the Pathway"

Birmingham Corneal Meeting 2021

Moorfields Academy Patient-as-Teacher symposium 03/03/21: Ocular Chemical Injury: Sight Loss, Emergency and Surgery Management

RSM Webinar 11/03/21: Hot topics in cornea and ocular surface disease

Thea Webinar 29/04/21 - Streamlining Cataract Lists: How Are You Managing It?

Refractive Surgery Alliance Webinar 11/10/2022 - Topography and Tomography: Step by Step

Moorfields Cornea Focus Meeting 2022: Viral keratitis: from science to therapy

Haag-Streit Webinar 28/11/22 - Congenital Aniridia: More Confidence in a Complex Case

RSM Webinar 15/12/22 Cataract surgery: Past, present and future

Haag-Streit Focus Event - Biometry Focus Month 10/11/22 - "How Topography and Vision Simulation Improve your Refractive Outcomes and Patient Satisfaction"

ZEISS UK Refractive & Cataract User Meeting 23-24th September 2023

RSM Webinar Refractive and Cataract Surgery 12/10/23: Implementing modern technology in your practice

Moorfields Cornea Focus Meeting 2023 Stevens Johnson Syndrome: from science to therapy

OSI Dry Eye Masterclass & Symposium 18-19th April 2024

Thea Webinar 25/04/24 Taming the flames: Exploring the relationship between ocular surface inflammation & dry eye disease

## Attendance at weekly Thursday Moorfields Cornea Teaching

State of the Art Refractive and Cataract Surgery Symposium 2024-2025

United Kingdom and Ireland Society of Cataract and Refractive Surgeons (UKISCRS) Annual Congress 2022-2025

European Society of Cataract and Refractive Surgery (ESCRS) Congress 2023-2025

BSRS 32nd Annual Scientific Congress 21-22nd June 2025

Moorfields KPro Study Group Symposium 10/11/25

KeraNatural® Case Studies Webinar 03/03/26