Dr. Yaser Jabbar **www.woteva.domain** **@LinkedIn/yaserjabbar**

SUMMARY

Clinician–technologist working at the intersection of surgery, imaging, AI, ClinTech architecture and data governance. Founder of an still-under-wraps AI project and co-founder of Granite XS, with expertise in 3D surgical planning, segmentation workflows, applied anatomy, biomechanics, and GDPR-compliant system design. Advises MedTech and AI companies on product strategy, imaging pipelines, validation frameworks, and clinical translation on a background of extensive deep clinical experience.

CORE COMPETENCIES

AI & Imaging	Data Architecture	Clinical Expertise	MedTech Strategy	Education
DICOM→3D pipelines	GDPR Compliance	Limb deformity	Product dev	Applied anatomy
Segmentation logic	Data governance	Paeds orthopaedics	Regulatory-aware	Biomechanics Ed
Landmark frameworks	Secure-by-design	Biomechanics	research envts	Interview training
Deformity metrics	ISO27001 logic	Surgical Simulation	Innovation advisory	FRCS mentorship

CONSULTING & ADVISORY

DETAILED EXPERIENCE & CREDENTIALS

Implant companies	UK-registered NGOs	National trials
Implant design	Business case analysis	Research strategy
Market landscape analysis	Conflict-zone equipment delivery	Trial design
New product trials	International donor relations;	Trial Monitoring
Surgical education	Conflict zone Healthcare delivery	Research governance
Orthofix, NuVasive, S & N	*Multiple*	*NETSCC, Hull University etc*

Invited speaker: International and National- Selected Experience	
Data in surgery	SICOT (Kuala Lumpur); EPOS (Oslo) BSCOS; BLRS (UK)
AI in healthcare	DisruptHR (Dubai)
Predictive models in surgical decision-making -MCMC	EFORT (Europe- Virtual)
Orthopaedics & Engineering	ISTRUCTE; IMECHE (UK)

Author and Awards	Selected Committees	Training
Book chapters FRCS (Tr&Orth)	Robotic Focus Group- GOS	Caldicott Guardian Cert– 2020
STAE Funding Award DN Fdn 2016	NWT CCG STP Tr & Paeds- UK (16-17)	Written Evidence – Bond Solon- 2016

“Consulting & Leadership Experience” “Committees & Panels” “Legal / Governance Training” “Selected Invited Talks”

TECHNICAL CAPABILITIES

CT/MRI **segmentation** (classical + AI-assisted)	Alignment **analysis**, MAD, osteotomy simulation
Surface mesh processing + computational geometry	
AI **validation**, reproducibility, bias mitigation	Secure **data exchange** architecture & governance

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AI & MEDTECH DEVELOPMENT

PROJECTS & HISTORICAL WORK

Founder | Lead Architect | Dev — XXXX.XX	Co-Founder & Governance Architect — Granite XS
Clinical translation and product development	Medical data strategy
Medical imaging pipelines	System architecture
AI-ready system architecture	Security-by-design principles
3D simulation and planning	Data governance logic
Data annotation and AI training	Risk modelling and mitigation strategies

Limb Reconstruction Patient Companion App (Concept)

Architected full-flow app | direct feedback to surgical teams | monitor progress and pt reminder tool
Current market landscape = still a viable project with the right partner

Limb Reconstruction Database Development (Concept)

Architected for supra-local research and outcome tracking | RCH, Melbourne local research tool
Most efficient design now is to graft a registry onto Granite XS secure, supra-local architecture.

Blockchain-Based Insurance and Payments Architecture (Concept)

Designed (2018) blockchain-based instant approvals and payment architecture for insurance-driven healthcare
Remains a potentially disruptive concept with suitable technical and commercial partners.

Data In Healthcare (Selected Projects)	Implementation of Tech in Health (Selected)
EOS utilisation and optimisation GOS 2020	EPIC Super user Implementation GOS 2019
Coding Accuracy C&W London 2017	EPIC user implementation GOS 2019
Coding Accuracy Costs RCH Melbourne, 2013	First E-learning module Uni of London (2001)

APPLIED ANATOMY & BIOMECHANICS LAB

SKILLS & AWARDS

Lecturer / Examiner	Specialist teaching	Mentorship
Imperial College London	Applied anatomy	FRCS Prep
University of Sydney	Biomechanics	Surgical interview coaching
St George's University London	Orthopaedic engineering (MSc)	Orthopaedic clinical reasoning

Awards and Teaching Development

Trainer of the Year (2nd place): Percivall Pott Rotation (2019)	Training the Trainers Levels 1- 3 (2014)
Teaching Excellence: University of Sydney, Australia (2013)	Teaching the Teachers, UNICON, Oxford (2009)

SELECTED EXPERIENCE HISTORY

International Lecturer and Examiner		International Course Faculty	
ACRP Panel Member	London Deanery (2016)	Paed Ortho Course, Al Nahrain Univ.	Baghdad (2024)
MSc Lecturer Orthopaedics	Imperial College (2016)	Radiology in Recon	3rd UAE Deformity Course (2023)
MBBS Finals Examiner	Imperial College (2012–2016)	Orthofix Academy	Orthofix, Italy (2017–2022)
FRCS Core Teaching Tutor	Imperial College (2012–2016)	FRCS (Tr & Orth) Course.	ORUK (2016–2019)
MBBS Orthopaedic Tutor	Imperial College (2012–2016)	Basic Femur Nailing	Imperial College (2016, 2017, 2019)
MBBS Orthopaedic Lecturer	University of Sydney (2013)	Basic External Fixation	Imperial College (2016, 2018)
MBBS Tutor, NDORMS	Oxford University (2008–2009)	FRCS Viva Course	Chertsey (2016–2018)
MBBS Tutor, SGHMS	University of London (2002–2006)	FRCS (Tr & Orth) Course	Imperial College (2014–2016)
		Ilizarov Skills for Nurse	Melbourne, Australia (2013)
		Simulation Training Programme	OSS Oxford (2011–2012)

Surgeon Technologist | MedTech & AI Surgical Planning Founder | Imaging & Data Architecture | Orthopaedic Surgeon | Applied Anatomy & Biomechanics Educator

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ARTICLES

PUBLICATIONS & BOOK CHAPTERS

Peer-Reviewed Publications

Wharton R, Trowbridge S, Simpson A, Sarraf K, Jabbar Y. *Anatomic, diagnostic and management challenges in paediatric pelvic injuries: a review*. JPOB 28(5):476–486, Sep 2019.

Burns S, Majed A, Jabbar Y, Emery R, Reilly P. *Assessing surgical decision-making – the application of Markov Chain Monte Carlo analysis to Codman-Hertel proximal humeral fractures using 3D models*. Submitted to *Shoulder and Elbow*.

Pananwala H, Jabbar Y, Mills L, Dao Q. *Tibial tunnel defect size as a risk factor in growth arrest following paediatric trans-physeal ACL reconstruction*. ANZ J Surg. 2016 Sep;86(9):691–5.

Jabbar Y, Khaleel A. *Controlling shear using the Ilizarov frame*. Clinical Biomechanics 30 (2015), 995–1001.

Jabbar Y, Majed A, Hsu A, Fairhurst P, Reilly P, Emery RJH. *Decision making in proximal humeral fractures using the Markov Chain Monte Carlo modelling algorithm*. Shoulder & Elbow 5(2), 2013, 78–83.

Jabbar Y, Jeyaseelan L, Khaleel A. *Staged complete dynamisation of the Ilizarov fixator – the Chertsey experience*. Eur J Orthop Surg Traumatol 21(7), 2011, 521–526.

Jabbar Y, Ruiz A. *Patellar reconstruction using posterior femoral condyle: a 5-year follow-up*. Ann R Coll Surg Engl. 2009;91(2):W7–8.

Book Chapters

Paediatrics for the FRCS (Tr&Orth) Examination. Daly K, Eastwood D, Gelfer Y (eds). Oxford University Press, 2018.

Chapters: Fractures in children (physis); Multiple trauma management; Open fractures in children; Perthes disease; Flexible flat foot; Cavus foot; Genu valgum (physiological & acquired).

RESEARCH

INTERESTS

AI-assisted deformity analysis | **Digital twins & predictive modelling** | **Clinical data architecture**

RESEARCH- PROJECTS, PRESENTATIONS & AWARDS

Prizes & Awards (Research)	Interdisciplinary Presentations
Best Research Presentation (3rd), RSM (2019)	Orthopaedics and Engineering – IStructE (2008)
Best Research Proposal (MCMC), ICH (2012)	Orthopaedics and Engineering – IMechE (2008)

NOVEL & DATA DRIVEN PROJECTS

Vascular anomaly Single-stage radiology-guided resection Intra-articular radiofrequency ablation	**Paeds Orth** EOS imaging in paediatric patients Risk of growth arrest in paediatric ACL reconstruction
Decision Making Markov Chain Monte Carlo modelling in humeral fractures	**Applied Mechanics** Ilizarov construct mechanics in shear fractures

TRAINING

Good Clinical Practice in Research | Informed Consent in Paediatric Research | NIHR UK (2014)

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CLINICAL BACKGROUND

Consultant Orthopaedic Surgeon *2014 – 2024*
Consultant orthopaedic surgeon specialising in limb deformity, reconstruction and paediatric orthopaedics across the UK and UAE. Extensive experience in complex correction planning, growth modulation, circular-frame biomechanics and clinical outcomes research.

CONTACT

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Keywords: Data architecture; secure-by-design; surgeon-in-the-loop AI; DICOM→3D→analysis pipelines; segmentation and landmarking architecture; AI validation and clinical safety; product strategy for surgical planning tools; orthopaedic research / clinical advisory; imaging workflow optimisation; data security in technology; data governance in AI models; GDPR and DPA 2018 in clinical and technology development; GCC healthcare innovation strategy; GCC healthcare market landscape analysis; surgeon engagement with technology; deep-tech/system thinking; MedTech in the real world; 3D analysis; surgical simulation; AI landmarking; biomechanical modelling; mechanical alignment; deformity analysis; medical education; FRCS; clinical reasoning; Markov Chain Monte Carlo; Decision Making; Surgical Decisions; Trauma; Paediatric Trauma; Paediatric Pelvic Injury; Proximal Humerus; Paediatric ACL; Shear; Ilizarov; Ilizarov Frame; Frame Mechanics; Orthopaedic Engineering; Ilizarov Fixator Dynamisation; Novel reconstruction methods; Physis Fractures; Open Fracture; Perthes; Genu Valgum FRCS**;** 3D imaging segmentation logic; Medical landmarking; Deformity analysis; Robotics and AR / VR output; AI model training; Clinical workflow → technical architecture translation; AI ethics; Enhancing surgical safety; Regulatory awareness and sensitivity; GDPR-compliant communication; ISO 27001 infrastructure; NHS DSP Toolkit & CyberEssentials compliance; Audit trails and traceability; Compliance logic and documentation; Cross-platform data ingestion and interoperability

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