

# Ahmad A Jum'ah

BDS (Hons.), MSc (Dist.), MRD (Pros.) RCSEd, PhD, JB (Pros.)

A proactive and capable academic with 5+ years of experience in graduate-level restorative dentistry. Extensively published in dental research journals, with related expertise in restorative dentistry and dental educational research. A confident presenter at local and international conferences and conscientious, adaptable teacher and clinical mentor who's able to educate students of varying grade levels or different learning styles.

## Employment

- 2020-Present **Associate professor and senior consultant of restorative dentistry**
- 2019-Present **Head, restorative dentistry department**
- 2016-2020 **Assistant professor and senior consultant of restorative dentistry**
- 2016-2019 **Assistant dean for academic affairs & QA**
- 2016-Present **Clinical lead, internship and advanced clinical training programs**  
Faculty of Dentistry, Jordan University of Science & Technology
- 2019-Present **Honorary senior lecturer**  
Oral rehabilitation, University of Otago, New Zealand
- 2017-2019 **Visiting research fellow**  
School of Dentistry, University of Leeds, UK
- 2011-2015 **Part-time clinical demonstrator**  
School of dentistry, University of Leeds, UK
- 2009-2010 **Clinical dental officer and research assistant**  
Restorative dentistry department, Jordan University of Science & Technology
- 2009 **General Dental Practitioner**  
Palesta private dental centre, Jordan
- 2008-2009 **Vocational trainee**

## Education

- 2018 **Jordanian board in fixed & removable prosthodontics**  
Jordanian Medical Council
- 2015 **PhD, thesis topic: zirconia dental implants**  
University of Leeds, UK
- 2015 **MRD (Pros.)**  
Royal College of Surgeons, Edinburgh, UK
- 2012 **MSc (Distinction) in restorative dentistry**  
University of Leeds, UK
- 2008 **BDS (Hons.), distinguished, ranked first on the batch (110 students)**  
Jordan University of Science & Technology

## Personal Info

**D.O.B**  
December 2, 1985

**Address**  
Faculty of Dentistry  
Jordan University of Science & Technology  
Irbid 22110, Jordan

**Phone**  
+962 796 84 367

**E-mail**  
aajuma@just.edu.jo

## Professional Identifiers

**Website**  
<https://www.just.edu.jo/aajuma>

**ResearchGate**  
[https://www.researchgate.net/Ahmad\\_Jumah](https://www.researchgate.net/Ahmad_Jumah)

**Google Scholar**  
<https://scholar.google.com/Jumah>

**ORCID**  
<https://orcid.org/0000-0001-5628-0230>

## Languages

Arabic   
Excellent

English   
Excellent

Farsi   
Basic

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## Experiences

### Teaching:

- Teaching of several UG and PG courses in the fields of operative dentistry, endodontics, prosthodontics and dento-facial aesthetics
- Mentoring of UG and PG students performing simple to complex procedures in restorative dentistry clinic and clinical skills labs
- Extensive knowledge and experience in distance/online education

### Research:

Supervision of research projects of postgraduate students at JUST and international universities including;

- Efficacy of different solvents on re-achieving apical patency after obturation with a bioceramic root canal sealer: MCLinDent (Endo), JUST 2019
- Bond strength of a direct composite resin to resin-matrix ceramic materials with four surface treatments: DCLinDent (Pros), University of Otago 2019
- Color change and Oral Health Related Quality of Life associated with vital tooth bleaching (at-home, in-office, combined in-office & at home): DCLinDent (Pros), University of Otago 2019
- Biomechanical considerations of endocrowns used to restore endodontically treated teeth: PhD (Restorative), University of Leeds-Ongoing

Several **ongoing research projects** including;

- Color changes associated with Er:YAG laser surface treatment of milled feldspathic porcelain veneers
- Biomechanical and crystallographic characterization of contemporary translucent zirconia substrates
- Finite element analysis of endocrowns restoring premolar teeth upon long-term cyclic loading
- Clinical performance of metal-free resin bonded bridges
- Effects of delivery method of laboratory courses on students' performance
- Role of educational videos in teaching clinical restorative procedures in third year operative dentistry courses

## Research Interests

- Tooth bleaching
- Adhesive dentistry
- CAD/CAM resin composites
- Dental ceramics
- Zirconia phase transformation & aging
- Ceramic implants
- Restoration of RCT-ed teeth
- Resin bonded bridges
- Dental education

## Research Skills

- Mechanical testing of biomaterials
- Surface characterization
- Colour analysis and spectrophotometry
- Crystallography
- CLSM
- Raman spectroscopy
- SEM imaging/FIB
- Finite element analysis
- Micro-computed Tomography
- Cell biology & gene expression
- Clinical trials
- Statistical analysis
- Building & validating questionnaires

## Publications

- **Jum'ah AA**, Brunton PA. (Editors: McConnell R, Sabbagh J). Book: Bulk Fill Resin Composites in Dentistry - A Clinical Guide. Chapter (Provisional acceptance): Bulk Fill Resin Composites: Recent Advents and Future Perspectives. 2021, Springer Nature Switzerland AG.
- Elsalem L, Al-Azzam N, **Jum'ah AA**, Obeidat N. Remote E-exams during Covid-19 pandemic: A cross-sectional study of students' preferences and academic dishonesty in faculties of medical sciences. *Ann Med Surg (Lond)*. 2021 Feb;62:326-333. doi: 10.1016/j.amsu.2021.01.054.
- Loch C, Kuan IBJ, Elsalem L, Schwass D, Brunton PA, **Jum'ah AA**. COVID-19 and dental clinical practice: Students and clinical staff perceptions of health risks and educational impact. *J Dent Educ*. 2021 Jan;85(1):44-52. doi: 10.1002/jdd.12402. Epub 2020 Sep 10. PMID: 32914437.
- Basheer H, Elsalem L, Jaber D, Ibraheem S, Alhamad H, **Jum'ah AA**. Knowledge, awareness and practices about dietary supplements in Jordan, *Tropical Journal of Pharmaceutical Research* 2021 (Accepted).
- Elsalem L, Al-Azzam N, **Jum'ah AA**, Obeidat N, Sindiani AM, Kheirallah KA. Stress and behavioral changes with remote E-exams during the Covid-19 pandemic: A cross-sectional study among undergraduates of medical sciences. *Ann Med Surg (Lond)*. 2020 Dec;60:271-279. doi: 10.1016/j.amsu.2020.10.058.
- Jum'ah AA, Elsalem L, Loch C, Schwass D, Brunton PA. Perception of health and educational risks amongst dental students and educators in the era of COVID-19. *Eur J Dent Educ*. 2020 Nov 14;10.1111/eje.12626. doi: 10.1111/eje.12626.
- **Jum'ah AA**, Brunton PA, Li KC, Waddell JN. Simulated clinical adjustment and intra-oral polishing of two translucent, monolithic zirconia dental ceramics: An in vitro investigation of surface roughness. *J Dent*. 2020 Oct;101:103447. doi: 10.1016/j.jdent.2020.103447.
- Hassouneh L, **Jum'ah AA**, Ferrari M, Wood DJ. Post-fatigue fracture resistance of premolar teeth restored with endocrowns: An in vitro investigation. *J Dent*. 2020 Sep;100:103426. doi: 10.1016/j.jdent.2020.103426.
- Elsalem L, **Jum'ah AA**, Alfaqih MA, Aloudat O. The Bacterial Microbiota of Gastrointestinal Cancers: Role in Cancer Pathogenesis and Therapeutic Perspectives. *Clin Exp Gastroenterol*. 2020 May 6;13:151-185. doi: 10.2147/CEG.S243337.
- Kothari S, **Jum'ah AA**, Gray AR, M Lyons K, Yap M, Brunton PA. A randomized clinical trial investigating three vital tooth bleaching protocols and associated efficacy, effectiveness and participants' satisfaction. *J Dent*. 2020 Apr;95:103322. doi: 10.1016/j.jdent.2020.103322

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## 📖 Publications

- Loch C, Brunton PA, Rahim ZA, Liew L, Lynch CD, Wilson N, Blum IR, **Jum'ah AA**. The teaching of removable partial dentures in dental schools in Oceania. *J Dent*. 2020 Apr;95:103309. doi: 10.1016/j.jdent.2020.
- **Jum'ah AA**, Creanor S, Wilson NHF, Burke FJT, Brunton PA. Dental practice in the UK in 2015/2016. Part 3: aspects of indirect restorations and fixed prosthodontics. *Br Dent J*. 2019 Feb 8;226(3):192-196. doi: 10.1038/sj.bdj.2019.95. PMID: 30734749.
- **Jum'ah AA**. Trending changes in the provision of indirect fixed prostheses in general dental practice in the UK. *Br Dent J* 226, 190 (2019). <https://doi.org/10.1038/sj.bdj.2019.115>.
- **Jum'ah AA**. An in vitro investigation of a novel, two-piece zirconia dental implant system (Doctoral dissertation, University of Leeds).
- Morgan S, **Jum'ah AA**, Brunton P. Assessment of efficacy and post-bleaching sensitivity of home bleaching using 10% carbamide peroxide in extended and non-extended bleaching trays. *Br Dent J*. 2015 May 22;218(10):579-82. doi: 10.1038/sj.bdj.2015.391.
- **Jum'ah AA**, Haite T, Nattress B. The Windowed Removable Partial Denture: A Treatment Option for Patients with Lone-Standing Teeth. *Eur J Prosthodont Restor Dent*. 2015 Mar;23(1):40-5.
- **Jum'ah AA**, Beekmans BM, Wood DJ, Maghaireh H. Zirconia implants: The new arrival in the armoury of successful aesthetic implant dentistry. *Smile Dent J*. 2011;7(2), 12-24.
- **Jum'ah AA**. Zirconia all Ceramic Restorations: Do they Perform Well?. *Smile Dental J*. 2011; 110(414), 1-4.
- **Jum'ah AA**, Nixon PJ. Neutral Zone in Complete Dentures: Systematic Analysis of Evidence and

## 🗣️ Conferences & talks

- August 2020: Oral presentation' Jordanian Endodontic Society. Title 'Optimising coronal seal: a key for endo-resto success'.
- January 2020: Oral presentation' Jordanian Prosthodontic Society. Title 'Immediate single tooth replacement in the aesthetic zone '.
- September 2019: 'Poster' European Association for Osseointegration Congress, Portugal-Lisbon. **Jum'ah AA**, Wood D. *In vitro* investigation of biofunctional response of fibroblasts osteoblasts toward roughened, injection-moulded zirconia implant material. *Clinical Oral Implants Research*. 2019 Sep;30:151.
- September 2019: 'Oral presentation' The 3rd Annual and 1st International Conference of the Jordanian Association of Dental Students. Title 'Adhesive aesthetic reconstructions: clinical & research perspectives'.
- June 2019: 'Poster' IADR/AADR/CADR General Session, Canada-Vancouver. Title 'Phase Transformation in An Injection-Moulded Zirconia Implant Material'.

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## Conferences & talks

- October 2018: Chief **organizer** of the 3rd International Conference of the Faculty of Dentistry at JUST
- September 2018: 'Oral presentation' Grand Conference of the Jordanian Association of Dental Students. Title 'Ethical Considerations in Aesthetic Dentistry'.
- March 2018: 'Oral presentation' Pioneering Dental Research Conference, Jordan-JUST. Title 'Immediate single tooth replacement using a novel zirconia dental implant system'.
- November 2017: 'Oral presentation' The 18th International Congress for the Egyptian Dental Association, Cairo-Egypt. Title 'Zirconia in Dental Implantology: An Update'.
- January 2017: 'Oral presentation' The 2nd Annual Conference of the Jordanian Association of Dental Students, Amman-Jordan. Title 'Advances in Restorative Dentistry'.
- February 2017: 'Oral presentation' The 2nd Annual Conference of the Jordanian Commission of Dental Aesthetics, Amman-Jordan. Title 'Zirconia in implant dentistry: current & future perspectives'.
- April 2016: 'Oral presentation' The 9th Palestinian International Dental Congress, Ramallah-Palestine. Title 'Immediate Single Tooth Replacement'. Title 'Crystallographic-mechanical characterization of aging phenomenon in injection-moulded zirconia implant material'.
- June 2015: 'Invited oral presentation' International Congress for the Jordanian Commission of Dental Implantology. Title 'A novel, hybrid zirconia dental implant system for single tooth replacement in the aesthetic zone'.
- March 2015: 'Oral presentation' IADR/AADR/CADR General Session, Boston-USA. Title 'Crystallographic-mechanical characterization of ageing phenomenon in injection-moulded zirconia implant material'.
- September 2014: 'Poster' European Association of Osseointegration Conference, Italy-Rome. **Jum'ah AA**, Wood D, Bubb N. Effects of artificial ageing on ultrastructure, mechanical properties and reliability of injection-moulded zirconia dental implant material and system. *Clinical Oral Implants Research*. 2014 Sep;25:238-9.
- October 2014: 'Oral presentation' BSRD-BATCD Annual Conference, UK-London. Title 'A novel zirconia dental implant system for immediate tooth replacement in the aesthetic zone'.
- July 2014: : 'Oral presentation' School of Dentistry Research Symposium, UK-Leeds. Title 'Low temperature degradation of injection-moulded zirconia dental implant material'.
- June 2014: 'Poster' IADR General Session, South Africa-Cape Town. Title 'Effects of artificial ageing on acid-etched, injection-moulded zirconia dental implants'.
- May 2014: Attending the BSRD scientific meeting, UK-Cambridge.

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## Conferences & talks

- May 2014: Attending the 2nd International Scientific Conference of Faculty of Dentistry at Jordan University of Science and Technology.
- August 2013: 'Poster' The 22nd European Dental Materials Conference, UK-Birmingham. Title 'In vitro investigation of surface roughness and low temperature degradation of zirconia dental implant material'.
- July 2013: 'Oral presentation' School of Dentistry Research Symposium, UK-Leeds. Title 'Hydrothermal aging of acid-etched, injection-moulded zirconia dental implant material.
- May 2013: 'Poster' British Society for Restorative Dentistry Spring Scientific Meeting, UK-Manchester. Title 'Windowed removable partial dentures for patients with lone standing teeth, a case series'.
- March 2013: Attending the Dentistry Show Conference, UK-Birmingham
- October 2012: '**Organizer**/Oral presentation' Dental implants research-clinical symposium in the Jordan University of Science & Technology. Title 'Zirconia, the new arrival in the armory of aesthetic implant dentistry'.
- October 2012: Invited speaker at the Jordanian International Dental Congress. Title 'Zirconia, the new arrival in the armory of aesthetic implant dentistry'.
- July 2012: 'Oral presentation' School of Dentistry Research Symposium, UK-Leeds. Title 'X-ray diffraction and Raman spectroscopy for characterization of t→m transformation in zirconia, a critical appraisal'.
- May 2012: Attending the BSRD Scientific Meeting, UK-Cambridge
- April 2012: Organizer/Oral presentation in research symposium about zirconia dental implants held in the Leeds Dental Institute, UK-Leeds. Title 'Zirconia, the new arrival in the armory of aesthetic implant dentistry'.
- March 2012: Attending the Dentistry Show, UK-Birmingham
- December 2011: Attending the Showcase Conference at University of Leeds, UK-Leeds
- October 2011: Attending the successful management of private dental practice symposium, UK-Leeds
- July 2011: Attending the School of Dentistry Research Symposium, UK-Leeds
- July 2011: Attending the 2nd WUN Symposium for Oral Health Sciences, UK-Leeds
- May 2011: Attending the British Dental Association Conference & Exhibition, UK-Manchester
- December 2010: Attending the Showcase Conference at University of Leeds, UK-Leeds
- November 2010: Attending the School of Dentistry Research Symposium, UK-Leeds
- May 2010: **Co-organizer**/presenter at 'Shining in Dental School' Conference, Jordan-JUST
- May 2008: Attending the 1st International Scientific Conference of Faculty of Dentistry/JUST and 5th annual scientific Meeting of IADR-JOR, Jordan-Amman

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## Honours, awards and grants

- 2018: Grant no. 231/2018 (25,000 USD) awarded by the Deanship of Scientific Research at JUST to fund a long-term clinical trial investigating the performance of metal-free resin bonded bridges.
- January 2014: Garry Pollock Prize, Best research/clinical presentation at the BSRD scientific meeting with BATCD and FDS. Title 'Zirconia, the new arrival in the armory of aesthetic implant dentistry'.
- March 2013: British Society for Restorative Dentistry, Best clinical poster prize. Title 'Windowed removable partial dentures for patients with lone standing teeth, a case series'.
- 2010: Secured a full scholarship to complete MSc/PhD degrees at the University of Leeds funded by JUST.
- 2008: Completed BDS degree with highest honors and ranked first on the batch (110 students).

## Memberships and professional affiliations

- Active member at the Jordanian Dental Association (JDA) and its subcommittees.
- Member of the founding committee of the Jordanian Commission of Orofacial Pain & Dysfunction
- Vice-President of the Jordanian Commission of Orofacial Pain & Dysfunction
- Former Faculty of Dentistry representative in the CPD committee at the JDA
- Active member (lecturer and trainer) in the Jordanian Society of Prosthodontics
- Member in the European Association of Osseointegration (EAO)
- Member in the British Society for Restorative Dentistry (BSRD) Member in the
- British Society of Prosthodontics (BSSPD)
- Member in the International Association of Dental Research (IADR)
- Member in the IADR Implantology Research Group (IRG), IADR Prosthodontics Research Group (PRG) and IADR Dental Materials Research Group.
- Member in the European Society for Dental Materials
- Member in the British Society for Oral and Dental Research (BSODR)
- Member in the Academy of Dental Materials
- Member in the International Team of Implantology (ITI)

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## Continuous professional development

### Clinical dentistry

- 2015-current: Conducting short term CPD courses for intern dentists, GPs and young specialists in the following subjects:
  - Posterior Resin Composite Restorations: State of the Art & Science: 8 Credit Hours
  - Understanding Anterior Aesthetic Restorations: 16 Credit Hours
  - Current Concepts in Restoration of Root-Treated Teeth: 8 Credit Hours
  - Digital Dentistry 101: 8 Credit Hours
  - Fundamentals of Fixed Prosthodontics: 32 Credit Hours
  - Evidence based dental practice: What's relevant?
- September 2019: 2-day course on using 3-shape oral scanner and associated acquisition/design software, Amman-Jordan
- September 2017: 1-week training for trainers at Tokyo Medical and Dental University on current adhesive dentistry protocols, Tokyo-Japan
- November 2014: Workshop on bulk fill resin composite restorations, Leeds-UK
- November 2014: Medical emergency training, Leeds-UK
- May 2014: Workshop on Valplast dentures, Leeds-UK
- May 2013: Master class and hands-on workshop on surgical techniques for Restorative Dentistry, BSRD, Manchester, UK
- March 2013: Medical emergencies training, Leeds-UK
- March 2013: A practical, hands-on workshop on atraumatic tooth extraction and socket preservation techniques, Leeds-UK
- December 2012: Pulp regeneration for management of immature tooth: Professor Monty Dougal, Leeds-UK
- July 2012: Hands-on workshop on layering of resin composite restorations and veneers, Leeds-UK
- May 2012: Hands-on training on Endowave rotary files system, Leeds-UK
- April 2012: Presenter at the multi-system dental implant course held at Genix healthcare centre. 'Title' Impression making in fixed and removable prosthodontics, Leeds-UK
- January-February 2011: Multi-system dental implant training focused on implant supported prosthesis organized by Genix healthcare and group of specialists in implant and restorative dentistry at University of Manchester
- May 2008: Hands-on workshop on Astra Tech dental implants, JUST-Jordan



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## Continuous professional development

### Career development, education and generic skills

- January 2021: Raising Students' Engagement in Remote E-learning Environment
- January 2021: Evaluating Online Teaching
- April 2020: Basics of Distance Education
- January 2020: Research Excellence: From Application to Publication
- March 2018: Transition to ISO 9001:2015- Performance Indicators
- March 2018: ISO 9001:2015- Exploring the New Standard
- March 2018: Transition to ISO 9001:2015- Internal Auditing
- February 2018: Transition to ISO 9001:2015- Process Approach
- February 2018: Transition to ISO 9001:2015- Risk Management
- July 2017: Development of Curriculum & Study Plans
- October 2017: Designing Massive Open Online Courses
- October 2014-February 2015: Setting up a specialist dental practice course, School of Dentistry, University of Leeds, Leeds-UK
- November 2012: Training grade group workshop: How to publish research and clinical papers? Leeds, UK
- May 2011: Networking essentials workshop organized by staff and student development unit at University of Leeds, Leeds-UK
- March 2011: Time management workshop organized by staff and student development unit at University of Leeds, Leeds-UK
- February 2011: Microsoft Word for long documents workshop held by ISS in University of Leeds, Leeds-UK
- February 2011: Microsoft Excel for complex data analyses workshop held by ISS in University of Leeds, Leeds-UK
- November 2010: Building academic career workshop at Careers Center, University of Leeds, Leeds-UK
- November 2010: Research ethics workshop in Faculty of Medicine and Health at University of Leeds
- November 2010: Leading skills workshop at Careers Center, University of Leeds, Leeds-UK
- November 2010: Interview skills workshop at Careers Center, University of Leeds, Leeds-UK
- October 2010-February 2011: Statistics and research methodologies course, Faculty of Medicine and Health, University of Leeds, Leeds-UK

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## References

1- Prof. Paul Brunton

Pro-Vice-Chancellor, Division of Health Sciences, University of Otago, Dunedin, NZ,

[paul.brunton@otago.ac.nz](mailto:paul.brunton@otago.ac.nz)

2- Prof. Brian Nattress

Head of Adult Integrated Care Department, Leeds Dental Institute, University of Leeds, LS2

9UL, UK.

[b.r.nattress@leeds.ac.uk](mailto:b.r.nattress@leeds.ac.uk)