

## **Noor Abdullah Abdullah Al Mortadi, Ph.D.**

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[https://www.researchgate.net/profile/Noor\\_Mortadi2](https://www.researchgate.net/profile/Noor_Mortadi2)

[https://scholar.google.com/citations?hl=en&user=Yxo\\_IWwAAAAJ&view\\_op=list\\_works&gmla=AJsN-F4UudzrXZ1sTvTmCPUaljiQNIgl8TPJfjCXaDJIWGE0i7FWdYBUvhKBy8c9CEzGx-LZmhU-](https://scholar.google.com/citations?hl=en&user=Yxo_IWwAAAAJ&view_op=list_works&gmla=AJsN-F4UudzrXZ1sTvTmCPUaljiQNIgl8TPJfjCXaDJIWGE0i7FWdYBUvhKBy8c9CEzGx-LZmhU-WBD9OpVzkfog8Zm6rLeSXu1j_4YvnlFA9k5uR1cvbX8)

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### **PERSONAL PROFILE**

**Dr. Noor A. Al Mortadi** has a breadth of academic, research, and industrial experiences.

She is currently working as Assistant Professor at Applied Dental Sciences Department. She received BSc degree in Dental Technology from Jordan University of Science and Technology (JUST), Irbid, Jordan, in 2005 and an MSc in Dental Science from University of Dundee, with Research on Accuracy of Dental impressions upon Disinfection, in October 2009. She earned a Ph.D. Degree in Digital Dental Technology from Cardiff Metropolitan University (CMU), Cardiff, UK in September 2014.

She has served as Assistant Dean of Research and Assistant Dean of Faculty of Applied Medical Sciences, Currently, she serves as Assistant Director of the Academic Development and Quality Assurance Centre and the Manager for the Academic Development Department.

She has undertaken practical modules in Implant and Complex Myofunctional Appliances, where the construction of the appliances is considered complex. She has taught over ten undergraduate courses in the Applied Dental Sciences Department. She has authored over ten articles published in professional journals. She completed several funded projects from inside the University and from external resources. Her current group's research focuses on manufacturing digital dental appliances, dental technology, dental health and education, and evaluation and ethics in dental administration.

She is well known in Digital Dentistry and Dental Technology Modeling and Manufacturing. She has participated in over 20 global scientific conferences. She has attended over 20 workshops in dental technology, oral health, quality assurance, and higher education. She participates annually in two international scientific conferences. Moreover, Dr. Al Mortadi has been co-organizing several local and international conferences. She is a member of numerous professional societies.

### **EDUCATION**

- **Ph.D., Dental Technology, 2010-2014**

Cardiff Metropolitan University (CMU); Cardiff, Wales, UK, 2014

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- **M.D.Sc., Dental Science, 2009**

University of Dundee; Dundee, Scotland, UK, 2009

- **B.Sc., Dental Technology, 2005**

Jordan University of Science and Technology; Irbid, Jordan, 2005

## WORK EXPERIENCE

- **Assistant Manager of Center and Acting as Manager of Academic Development Department**, September 2019 – Present  
Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, Jordan
- **Assistant Dean**, September 2018 – September 2019  
Faculty of Applied Medical Sciences, Jordan University of Science and Technology, Irbid, Jordan
- **Assistant Dean**, September 2017 – September 2018  
Deanship of Research, Jordan University of Science and Technology, Irbid, Jordan
- **Assistant Professor**, October 2014 - Present  
Applied Dental Sciences Department, Jordan University of Science and Technology, Irbid, Jordan
- **Academic Associate and Demonstrator**, October 2012 - October 2014  
Dental Laboratory, Microbiology Lab and Biochemistry Lab, Cardiff Metropolitan University, Cardiff, Wales, UK
- **International Student Helper/Ambassador of CMU at International Office**, October 2012 - October 2014  
International Office, Cardiff Metropolitan University, Cardiff, UK
- **Honorary Trainer at Hospital**, October 2010-October 2012  
Production Dental Lab, Removable Orthodontics and Removable Prosthodontics, card. Cardiff, Wales, UK
- **Full Time Lecturer**, October 2009 – September 2010  
Applied Dental Sciences, Jordan University of Science and Technology, Irbid, Jordan
- **Postgraduate Trainer at Hospital**, October 2008-October 2009  
Dundee Dental Hospital, Orthodontic Lab, Dundee, Scotland, UK
- **Dental Laboratory Technician**, June 2005- 30 September 2008  
Applied Dental Sciences Department, Jordan University of Science and Technology, Irbid, Jordan
- **Undergraduate Dental Lab Trainer**, June 2004-June 2005  
Irbid Teaching Dental Centre, Irbid & Al Fadi Dental lab, Zarqa, Jordan

## TEACHING EXPERIENCE

- **Assistant Professor**, 20 November, 2014 – Present

**TEACHING COURSES, # of students 100-150:**

Oral and Dental Health (4 times)  
Orthodontics (1) (14 times)  
Orthodontics (1) Practical (14 times)  
Orthodontics (2) (14 times)  
Orthodontics (2) Practical (14 times)  
Applied Orthodontics (6 times)  
Dental Morphology and Occlusion (2 times)  
Dental Morphology and Occlusion Practical (2 times)  
Prosthodontics (1) Practical Removable Partial (2 times)  
Applied Partial Removable Prosthodontics (1 time)  
Maintenance of Equipment's and General Safety in the Dental Technology Laboratory (14 times)

**Senior Project Advisors:** Supervised as many students as 20 per academic year to perform senior graduate projects (7 times).

**Teaching loads:** 12 credit hours per semester.

## GRADUATE STUDENTS

Co-advisor for the thesis *in progress* entitled: The effect of the application of Information Technology System on improving the communication process between dental laboratories and dental clinics in Jordan, Jordan University of Science and Technology, Student Name: Salam Shoqran

## JOURNAL PUBLICATIONS

1. **N Al Mortadi**, S Al-Houry, K.H Alzoubi, OF Khabour. The Effectiveness of Peer Evaluation in Learning Process: A case from Dental Technology Students. *The Open Dentistry Journal*. (in press)
2. **Al Mortadi N**, Bataineh K, Al Janaideh M. Fatigue Failure Load of Molars with Thin-Walled Prosthetic Crowns Made of Various Materials: A 3D-FEA Theoretical Study. *Clinical, Cosmetic and Investigational Dentistry*, 18 December 2020; 2020:581-593
3. **N Al Mortadi**, K.H Alzoubi, R.J Williams. A Scoping Review on the Accuracy of Fit of Removable Partial Dentures in a Developing Digital Context. *Clinical, Cosmetic and Investigational Dentistry*, 2020; 12, 551–562
4. T Rababah, M Al-U'datt, M Al-Mahasneh, S Gammoh, A Al-Qaisi, T Ajouly, H Alfandi, **N Al Mortadi**. Effect of storage of Halaweh Tahinia on physicochemical and nutraceutical properties. *Annals of Agricultural Sciences*, 2020; 65 (1), 92-97
5. **N Al Mortadi**, A Al-Khatib, K H Alzoubi, and O F Khabour. Disinfection of dental impressions: knowledge and practice among dental technicians. *Clinical, Cosmetic and Investigational Dentistry*, 2019; 11, 103–108
6. L Zuskova, **N.A.Al Mortadi**, R.J Williams, K.H Alzoubi, OF Khabour. Comparison of Overall Fit of Milled and Laser-Sintered CAD/CAM Crown Copings. *International journal of dentistry*. 2019; vol. 2019, Article ID 7310175
7. **N Al Mortadi**, O.F Khabour, K.H Alzoubi. Considerations and beliefs in tooth donation to Science in Jordan. *Clinical, cosmetics and investigational dentistry*, 2018; 10, 263–268
8. **N Al Mortadi**, D Eggbeer, J Lewis, R.J Williams. Comparison of virtual and physical dimensions in AM resin dental devices and fit of devices with conventionally produced base plates. *Rapid Prototyping Journal*, 2017; 24(1):188–194

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9. **N Mortadi**, Q Jones, D Eggbeer, J Lewis, R.J Williams. Fabrication of a resin appliance with alloy components using digital technology without an analog impression. *American Journal of Orthodontics and Dentofacial Orthopaedics*, Nov 2015; 148(5): 862–867
  10. **N Al Mortadi**, D Eggbeer, J Lewis, R.J Williams. Design and fabrication of a sleep apnea device using computer-aided design/additive manufacture technologies. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, Apr, 2013; 227(4): 350–355
  11. **N Al Mortadi**, D Eggbeer, J Lewis, R.J Williams. CAD/CAM/AM applications in the manufacture of dental appliances. *American Journal of Orthodontics and Dentofacial Orthopaedics*, Nov 2012;142(5):727–733
  12. **N Al Mortadi**, R.G Chadwick. Disinfection of dental impressions - compliance to accepted standards. *British Dental Journal*, 2010; 209(12): 607–611

## ACADEMIC ACTIVITIES

- Participated in Early Academic Career Program for Jordanian Universities, funded by British Council, Amman, Jordan, 8 workshops among 4 different Universities in Jordan, October 2019-Jan 2020.
- A member of the Scientific Committee of the 1<sup>st</sup> International Conference of Academic Jordanian Women Association entitled ‘‘Women in Academia’’ Amman, Jordan, 20-21 January, 2021
- A member of the Scientific Committee of the 1<sup>st</sup> International Conference of Faculty of Applied Medical Sciences, Jordan University of Science and Technology, Jordan, *Date To be announced*
- The chair of committee for Research, Quality and Development in The Association for Jordanian Women Academics, Amman, Jordan, since 2017
- Co-ordinator for two workshops in collaboration with The Association for Jordanian Women Academics on "Proposal Planning and Writing" and " How to write Perfect Proposal", Jordan University of Science and Technology, 27 April, 2017
- The chair of Scientific Committee for the 8<sup>th</sup> International Conference of Dental Technology organized with the Jordanian Association of Owners of Dental Technology Labs, Amman-Landmark Hotel, 8-11 November, 2016
- Organizing hands on GC materials in collaboration with Jordan University of Science and Technology, for Bill Marais and Ehsan Hamada, Amman, Jordan, 28 April, 2016.
- Participating in a workshop entitled ‘‘Digital Implant’’ workshop at the 7<sup>th</sup> International Conference for Dental Technology, Landmark Hotel, Amman, Jordan, 28-30 April, 2015

## QUALITY ACTIVITIES

- Leading Into The Future With Quality: Quality Assurance For Online Education, organized by Center for Learning Innovations and Customized Knowledge Sloutions, Online Dubai, UAE, 13 June, 2020
- ISO 9001:2015 Appreciation and Interpretation and Internal Auditor Training Course, Lloyd’s Register, Head Quarters in London, UK, given at Jordan University of Science and Technology, 23-24 and 26 December, 2019
- Expert by Accreditation and Quality Assurance Commission for the Higher Education Institutions for evaluating Dental Technology Program at:
  - UNRWA College, Amman, Jordan, 18 August, 2019
  - Arab Community College, Amman, Jordan, 17 April, 2019
  - Luminus College and University, Amman, Jordan, 28 June 2018

## JOURNALS REVIEWED

- Reviewer for Rapid Prototyping Journal/Emerald Publishing. Dates of Journal reviewed are:
  - RPJ-02-2020-0040.R1 14-Sep-2020
  - RPJ-02-2020-0040 03-Jun-2020
  - RPJ-09-2019-0236.R1 31-Mar-2020
  - RPJ-09-2019-0236 19-Dec-2019
  - RPJ-05-2019-0145 16-Jun-2019
  - RPJ-03-2019-0061 18-Mar-2019
  - RPJ-03-2018-0053.R2 18-Feb-2019
  - RPJ-10-2016-0166 28-Nov-2016

## MEDIA

- Media: BBC4 Arabic Channel, program 4Tech, 3D printed dental devices, published on YouTube, Mar 19, 2018  
<https://www.youtube.com/watch?v=0kvdfxmous8&t=14s>
- Media: TV Channel Roya, Noor Al Mortadi is developing a dental devices, published on YouTube Apr 30, 2018  
<https://www.youtube.com/watch?v=0Koo727Y2yU&t=611s>
- Media: Radio interview to represent the Assistant Deanship of Research, Irbid, Radio Irbid, Date: 24 November, 2017
- Media: Radio interview to represent the Chair of Scientific Committee for The 8<sup>th</sup> International Conference for Dental Technology, Amman, Amman Radio, published on 8 November, 2016

## SCIENTIFIC SEMINARS AND TRAINING WORKSHOPS

### Training Courses:

- Training Course on Dentsply Sirona CAD/CAM system (Germany), Ibin Rushd, Amman, 6&9 May, 2018
- Mobile Application in Education, University of Plovdiv, Plovdiv, Bulgaria, 26<sup>th</sup> February-2<sup>nd</sup> March, 2018
- Fellowship in Responsible Conduct of Research (fRCR), University of California San Diego and Jordan University of Science and Technology, One year, 2017
- A Diploma Training Course on Ortho Analyzer Level 1, 3Shape Company, Copenhagen, Denmark, 28-29 March, 2017
- A Diploma Training Course on Appliance Designer, 3Shape Company, Copenhagen, Denmark, 30-31 March, 2017
- Technical Assistance to the Higher Council for Science and Technology (HCST) for the implementation of the support to Research, Technical Development and Innovation in Jordan” – Phase II (SRTD II), Jordan –Bristol Hotel, 30 October –November, 2016

- 3-Shape Training ‘Learn About Digital Dentistry from the Experts’, Istishari Hospital, Amman, Jordan, 20-21 July, 2016
- Assessment and Innovative Teaching Methods, Jordan University of Science and Technology, Jordan, 19- 20 January, 2016
- Scientific Manuscript Writing Workshop, organized by RESCAP-MED, Dead Sea, Jordan 10-11 December, 2014.

### **Hands on seminars**

- Celtra Press (ZLS) Training Course, A.D.J.E Training Centre, Amman, Jordan, 27-28 August, 2019
- Shofu Dental supplies, Amman, Jordan, 10-11 May, 2017
- Course training: "Noritake advanced PFZ", Dead Sea, Crown Plaza Hotel, 12 November, 2016,
- Ivoclar, Amman, Jordan, 12 July, 2016.
- Ceramill PEEK, Amman, Jordan, 6 August, 2016
- Rhein Attachment, Larsa Hotel, Amman, Jordan 25 February, 2016.
- GC materials for Bill Marais and Ehsan Hamada, Amman, Jordan, 28 April, 2016.
- Advanced orthodontic lab course, MOA and Quadhelix, , Manchester Metropolitan University, Manchester-United Kingdom, 25-26 April, 2014
- Advanced orthodontic lab course, MOA and Quadhelix, , Manchester Metropolitan University, Manchester-United Kingdom, 25-26 April, 2014
- Orthodontic course for dental technicians on “Functional Appliances“, Manchester Metropolitan University, Dental School, Manchester, UK, June, 2013
- Orthodontic course for dental technicians on Quadhelix, Hyrax and Indirect Bonding, Eastman Dental School, UK, 18-19 May, 2012
- Ceramco 3 shade Series Porcelain, Amman, Jordan, April, 2008

### **Attendance seminars**

- Women rights in the national and International rules, organized by The Jordanian Association of Women Academics, University of Jordan, 9 May, 2017
- Research and Academic Women; funds and goals, organized by The Jordanian Association of Women Academics, The association, 18 March, 2017
- CPD – distant learning courses; Fundamental of Orthodontic Dental Technology course, presenters from UK, February, 2016
- CPD courses;
  - Dental implants and dental porcelain and zirconia ceramic materials on 6 July, 2011, UK
  - Dental Materials: Implants – a clinical perspective online study event on 26 May, 2011, UK,
  - Disinfection and Decontamination On line study event on 24 May, 2011. UK
- Lingual orthodontic society, British Orthodontic Society, London, UK, 5 November 2011

## **CONFERENCES**

### **Oral Presentations**

- The 2<sup>nd</sup> International Conference of Ethics in Jordan, JUST, 10 August, 2017
- The 19<sup>th</sup> International Irbid Dental Conference, Irbid, Jordan, 25-27 March, 2015
- The 5<sup>th</sup> American Dental Congress, Philadelphia, USA, 5-7 October, 2015
- The International Digital Conference in Dentistry, Dubai, UAE, May, 2013

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- The British Orthodontic Society conference Manchester, September ,2013
  - The International Conference on oral and dental health in Las Vegas, Nevada, USA, August, 2013
  - The British Orthodontic Society Conference, Harrogate, UK, 25-27 September 2011
  - Poster Presentation for Research Students Conference on AM, Cardiff, UK, May, 2011
  - The Orthodontic Technicians Association (OTA) Conference, Windermere, UK, March, 2010

### **Poster Presentations**

- Research Students Conference, Cardiff, UK, May, 2011
- Cardiff Metropolitan University Symposium, Cardiff Metropolitan University, Cardiff, Wales, UK, 2013
- Cardiff Metropolitan University Symposium, Cardiff Metropolitan University, Cardiff, Wales, UK, 2012
- Cardiff Metropolitan University Symposium, Cardiff Metropolitan University, Cardiff, Wales, UK, 2011

### **Attendance**

- Dental Professionals Conference, Virtual UK 2020, 31 October 2020, Hosted by The Orthodontic Technicians Association (OTA) in partnership with the British Institute of Dental and Surgical Technologists (BIDST), British Society of Dental Hygiene and Therapy (BSDHT), the British Association of Dental Therapists (BADT), the Orthodontic Therapists Society (OTS) and the Society of British Dental Nurses (SBDN).
- Bluenotes MENA 2019 Conference, organized by Explorance, Zayed University, Dubai, UAE, 5-7 November, 2019
- The Conference for Jordanian Association for Women Academics National Report, Amman, Jordan, 14 August, 2017
- The 8<sup>th</sup> International Conference for Dental Technology at Landmark Hotel, Amman, Jordan, 8-11 November, 2016
- The 7<sup>th</sup> International Conference for Dental Technology at Landmark Hotel, Amman, Jordan, 28-30 April, 2015
- The “International Conference on Ethics and Biomedical Informatics in Jordan”, JUST, 10 August, 2016
- The Orthodontic Technician Association (OTA) Conference, Radisson Blu Hotel, Glasgow, Scotland, UK, 14-16 March, 2014
- The International Digital Conference in Dentistry, RJ Marriott Hotel, Dubai, UAE, May, 2013
- The British Orthodontic Society conference, Manchester, UK, September, 2013
- The British Orthodontic Society Conference, Harrogate, UK, 25-27 September, 2011
- The Orthodontic Technician Association Conference, Southampton, UK, 10-13 March, 2011
- The Orthodontic Technician Association Conference, Milton Keynes, UK, 20- 22 March, 2009
- The 3<sup>st</sup> Scientific Day for Dental Technology, Amman, Jordan, 16 April, 2008
- The 5<sup>th</sup> Conference for Dental Technology, Amman, Jordan, 2005

## **PUBLIC AND COMMUNITY SERVICES**

- Active Citizens program, funded by British Council and Europe, Dead Sea, Amman, 22-26 February,

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2020.

- Participated as member committee for the Independent Election Commission for Parliament in Jordan, 10 November, 2020
- Participated in co-ordinating The Oral Health Day at Maymonah Bint Al Hareth School, Ramtha, 14 March, 2019
- Participated in The Oral Health Day for Mazar School, Irbid, 11 December, 2018
- Organizing Training Course at Department Level on Dentsply Sirona CAD/CAM system (Germany), Irbid, Amman, 6&9 May, 2018
- Participated in The Career Day at Amman, the Faculty Level, Islamic Educational College, 2017
- Oral Health Day at Laureate Academy, Irbid, 2 March, 2017
- Organizing a lecture on Application of 3D printing in dentistry. Presenter: Eng. Ahmad Alsoussi-3DPrintie, 22 February, 2017
- Participated as a committee member for the scientific and Open Days at Department and Faculty levels 2016-till now
- Participated as a committee member for the Activities, at Department and Faculty levels 2016-till now
- Organizing a lecture entitled “Introduction for Craniofacial Epigenetics and Pneumopedics” Presenter: Prof Gurdev Singh, JUST, 6 May, 2016
- Participated as Chair of student votes Committee at JUST student Union, 2016
- Organizing non educational event for the graduate students in Dental Technology, 10 May, 2015

## KEY SKILLS

- **Computer Software:** Statistical Software tools (SPSS); Design and Analyze the Dental Appliances using various computer software such as Freeform (3D Systems, USA), 3Shape (Copenhagen, Denmark), Sirona Dentsply (Germany).
- **Research Skills Course for PhDs:** 2012, University of Cardiff Metropolitan University
- **Research Skills for Postgraduates:** University of Dundee
  - Word for Thesis Writing – Basic Word Functions, 3 March, 2008
  - Introduction to research statistics (Non BioScience), 17 November, 2008
  - Word for Thesis Writing – Basic Word Functions, 29 January, 2009
  - CV’s, Covering Letters and Applications, 23 February, 2009
  - Excel- Functions, Tricks and Short-cuts, 19 February, 2009
  - Digital Image Manipulation – Knowing Photoshop, 24 March, 2009
  - Word for Thesis Writing – Basic Word Functions, 9 April, 2009
  - Conferencing, 27 April, 2009
  - Surviving your Viva, 29 April, 2009
  - Referencing Made Easy – Endnote Essentials, 14 May, 2009
  - Practical Presentation Skills (Advanced), 22 May, 2009
  - Spin-out Companies, 30 April, 2009
  - Business Skills and Biotechnology, 6 May, 2009

## AWARDS & HONORS

- **2016– 2017:**  
Full scholarship for RCR research ethics fellowship from University of California-San Diego program (Joint Program) and JUST (Joint Program) covers Tuition fees.



- **2010 – 2014:**  
Full scholarship for PhD in UK-Cardiff from JUST covers living costs and Tuition fees.
- **2008 – 2009:**  
Full scholarship for MSc in UK-Scotland from JUST covers living costs and Tuition fees.
- **2004– 2005:**  
Students Fund from Ministry of Higher Education, Jordan, JUST.
- **2002– 2004:**  
Various student fund awards from JUST mainly depending on academic achievements per semester, Dean’s List of Outstanding Students at JUST, Jordan.

\*\* A large proportion of the PhD research project was spent in the Cardiff Metropolitan University- The National Centre for Product Design & Development Research (CMU – PDR) Unit which **won a Queen’s Award Prize in 2016.**

## ACADEMIC GRANTS AND PROJECTS

- Participated in JADE project for the training of JUST students and graduates in the medical fields on ‘‘Entrepreneurship and Creativity’’ course. Funded by Erasmus, year 2020
- Conference co-ordinator: Coordinator between The Jordanian Association of Women Academics and Jordan University of Science and technology to conduct the Online 1<sup>st</sup> International Conference for the Association, Grant will be paid to JUST: 500 JD, year 2020
- Principal Investigator: Infrastructure Project funded by Deanship of Research at JUST for developing research and student training on CAD/CAM dental system, Sirona, Germany, 65,000 JD, year 2018
- Principal Investigator: ‘‘Biomimetic Oral Appliance Therapy for The Treatment of Obstructive Sleep Apnea in Adult’’, funded by Scientific Research Support Fund (SRF)by Ministry of Higher Education, MPH/2/6/2016, Grant: 32,000JD, year 2017
- Incentives from JUST as recognition for publishing in International and highly reputation Journals, 2015-Present

## RESEARCH SUPPORTED BY JUST

- Co- Investigator: ‘‘Challenges of Professional Growth for Jordanian Women Academics’’, 278-2020, 27/10/2020
- Principal Investigator: ‘‘The effectiveness of Dental Technology students' assessment to themselves and to their peers on their academic achievement’’, 448-2018, 2/9/2018
- Principal Investigator: ‘‘Considerations and believes on donation of a tooth to science in Jordan’’, 120-2017, Closed
- Principal Investigator: ‘‘Comparing the Accuracy of computer based technologies to those produced using the lab based technique in dentistry’’, 577-2016, 21/12/2016
- Principal Investigator: ‘‘Total antioxidant capacity and peroxidation index for smokers with periodontitis’’, 6/11/2016
- Principal Investigator: ‘‘A comparison between the conventionally fabricated orthodontic appliances to those developed and produced by three dimensions (3D) printing’’, 28-2015, 27/2/2016

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- Principal Investigator: “Comparing the Accuracy of 3D printing crowns and base plates to those produced using the lab based technique”, 605-2016, 10/5/2015
  - Principal Investigator: “Evaluation of practice of cross infection control for dental impressions among laboratory technicians and dentists in Jordan”, 622-2016, 15/3/2015

### **SCIENTIFIC AND PROFESSIONAL SOCIETY MEMBERSHIPS**

- Orthodontic Technicians Association (OTA)- UK, 2011-2013, 2016-2017, 2020
- The Association for Jordanian Women Academics- Jordan, 2014-2020
- The Association of Jordan University of Science and Technology Staff –Jordan, 2015-2020

### **REFERENCES**

- References and certifications are available upon request.