

# CURRICULUM VITAE

## PERSONAL DETAILS

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**Name:** Serene Adnan Badran  
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## EDUCATIONAL QUALIFICATIONS

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- **PhD in Orthodontics** 2000  
The Queen's University of Belfast (QUB), UK
- **Postgraduate clinical training in orthodontics** 2000  
Royal Victoria Hospital, Belfast /UK
- **Residency program in Orthodontics** 1997  
Université Catholique de Louvain, Brussels/ Belgium
- **BDS in Dentistry** 1994  
The University of Jordan, Amman/Jordan
- **The General Secondary Education Certificate Examination** 1989
- **Diploma of Secondary Education** 1989  
The CMS (Ahliyyah School), Amman/Jordan

## ACADEMIC POSTS & PROFESSIONAL EXPERIENCES

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### 2018- present

- Head of the Department of Paediatric Dentistry, Orthodontics and Preventive Dentistry at the Faculty of Dentistry, University of Jordan

### 2014 - present

- Associate Professor of Orthodontics at the University of Jordan

### 2005 – 2009

- Assistant Dean for Development, Quality Assurances & Accreditation

- Assistant Dean for Examination Affairs/ University of Jordan

**2004 – 2012**

- Assistant Professor of Orthodontics at The University Jordan
- Consultant Orthodontist; University of Jordan Hospital

**2002 – 2004**

- Assistant Professor of Orthodontics at The Jordan University of Science and Technology (JUST)
- Consultant Orthodontist at JUST dental clinics

**2000 – 2002**

- Lecturer in Orthodontics at The Jordan University of Science and Technology, started December 2000
- Clinical Orthodontist at JUST dental clinics

**2012**

- Mini-residency program in Orthodontics at the University of North Carolina/ USA

**2010 – 2012**

- Vice President of the Orthodontic Scientific Committee; Jordanian Medical Council

**2008 – Present**

- Jordanian Board Examiner in Orthodontics

**PROFESSIONAL ACTIVITIES**

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**2010 – 2012**

- Head of the Scientific Committee for the Jordanian Orthodontic Society

**2011**

- Organizing Committee for the 7<sup>th</sup> Jordanian Orthodontic Congress

**2011**

- External examiner for an M.Sc. thesis in Orthodontics at The Faculty of Graduate Studies, Jordan University of Science and Technology

**2007 – 2009**

- Co-supervisor for MSc thesis: Maxillary and mandibular dental arch forms in a Jordanian population with normal occlusion

**2005 – 2008**

- Executive Committee member at the Jordanian Orthodontic Society (JOS); JOS secretary

**2007**

- External examiner for an M.Sc. thesis in Orthodontics at The Faculty of Graduate Studies, Jordan University of Science and Technology/ Irbid, Jordan

**2006**

- Organizing Committee, Scientific Committee and Exhibition Committee member for the 5<sup>th</sup> Jordanian Orthodontic Congress/ Amman, Jordan

**2005**

- Organizing Committee member & Social Events Committee for 4<sup>th</sup> Jordanian & 7<sup>th</sup> Arab Orthodontic Congress

**2005 – Present**

- Fellow of the World Federation of Orthodontists/ **USA**

**2005 – Present**

- Member of the Arab Orthodontic Society

**2000 – Present**

- Member of the Jordanian Orthodontic Society /**Jordan**

**2001 – 2004**

- Member of the International Association for Dental Research (IADR)

**2000**

- Poster presentation: Resolution of an ectopic maxillary canine using initial alignment archwires – A photoelastic study (British Orthodontic Conference/ Brighton, England)

**1999**

- Poster presentation: An in-vitro study of orthodontic alignment archwires using a dynamic photoelastic model (British Orthodontic Conference/ Glasgow, Scotland)

**1999**

- Oral presentation: An in-vitro study of orthodontic alignment archwires using a dynamic photoelastic model (Northern Irish Biomedical Engineering Conference/ Belfast, UK)

**1998**

- Oral presentation: The effects of increasing the reverse curve of Spee in a lower archwire examined using a dynamic photo-elastic gelatine model (Biomedical Engineering Conference /Dundalk, Ireland)

**1997 – 2000**

- Member of the Northern Irish Orthodontic Society
- Member of the Northern Irish Biomedical Engineering Society

## **OTHER PAST & PRESENT PROFESSIONAL ACTIVITIES**

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Member of the Dental Faculty Council/ University of Jordan, Amman, Jordan.

Head of the Development and quality assurance committee

Head of the Continuing Education Committee

Head of the Examinations committee

Head of the Library and information committee

Member of the following committees at the University of Jordan:

Higher education & postgraduate committee

Curriculum review and planning committee

Scientific Research committee

Examinations committee

Conference organizing committee

Library and information committee

Tenders and Receiving committees

Library and information committee

Cross infection control committee

Committee on Materials and Equipment and Setting Specifications

Reviewer for Jordan Dental Journal, Community Dental Health, BMC oral health, and The Angle Orthodontist

## **PUBLICATIONS**

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1. Photo-elastic stress analysis of initial alignment archwires. European Journal of Orthodontics 2003; 25: 117-125.

2. The effect of malocclusions and self-perceived aesthetics on the self-esteem of a sample of Jordanian adolescents. The European Journal of Orthodontics (2010)

3. Effectiveness of a lower lingual arch as a space holding device. The European Journal of Orthodontics (2011)

4. Oral Candida colonization in patients with fixed orthodontic appliances: The importance of some nutritional and salivary factors. African Journal of Microbiology Research (2011)

5. Perception of facial profile attractiveness in the antero-posterior and vertical planes by lay people. Jordan Medical Journal 2012; 46 (4): 366-374.

6. A comparison between laypeople and orthodontists in evaluating the effect of buccal corridor and smile arc on smile esthetics. Journal of the World Federation of Orthodontists (2013)

7. Factors influencing the uptake of orthodontic treatment. Journal of Public Health Dentistry (2013)

8. Mandibular symphysis morphology and dimensions in different anteroposterior jaw relationships. Angle Orthodontist (2014)

9. Effect of socioeconomic status on normative and perceived orthodontic treatment need. *Angle Orthodontist* (2014)
10. Perception of smile attractiveness by laypeople – influence of profession and treatment experience. *British Journal of Medicine and Medical Research* (2014)
11. Who Pays What for Public & Private University Education in the Arab Region Compared with the Rest of the World: Context of Jordan. *Universities in Arab Countries: An Urgent Need for Change*. Springer (2018)
12. Indicators of Institutional and Program Ranking of Universities with Reference to the Arab World. *Major Challenges Facing Higher Education in the Arab World: Quality Assurance and Relevance* (2019)
13. Can Universities in the Arab Region Become the Engines for Knowledge and Innovation? In: Badran A., Baydoun E., Hillman J. (eds) *Higher Education in the Arab World*. Springer, Cham.(2020)
14. Government and Governance in Arab Universities: Alignment or Conflict. In *Higher Education in the Arab World*. Springer, Cham. (2020)
15. Effect of Steroidal Hormone Pregnenolone on Proliferation and Differentiation of MC3T3-E1 Osteoblast like Cells. *Letters in Drug Design & Discovery* 2020; 17(9); 1139-1145.
16. Megestrol acetate induced proliferation and differentiation of osteoblastic MC3T3-E1 cells: A drug repurposing approach. *STEROIDS* 2020; Volume 157, 108607
17. Relationship between oral health impacts and personality profiles among orthodontic patients treated with Invisalign clear aligners. *Scientific Reports* 2020; 10 (1): 20459.
18. Academic performance of dental students: A randomised trial comparing live, audio recorded and video recorded lectures. *European Journal of dental education* 2020; 25 (2); 377-384.
19. Maxillary and mandibular dental arch forms in a Jordanian population with normal occlusion. *BMC Oral Health* 2021; 21 (105)
20. The Online Attention to Cleft Lip and Palate Research: An Altmetric Analysis. *The Cleft Palate-Craniofacial Journal* 2021; May 11.
21. Pulpal blood flow changes and pain scores related to using 0.018-inch superelastic Nickel-Titanium as the first orthodontic alignment archwire: A prospective clinical trial. *Journal of Applied Oral Science* 2021; 29:e20210089
22. Self-harm, Dentofacial Features and Bullying. *American Journal of Orthodontics & dentofacial Orthopedics* (accepted for publication)
23. Comparing patient-centered outcomes and efficiency of space closure between nickel-titanium closed-coil springs and elastomeric power chains during orthodontic

treatment: A two-center, randomized clinical trial. Angle Orthodontist (accepted for publication)

## **FUNDED ONGOING RESEARCH PROJECTS**

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- Comparing two methods of space closure during orthodontic treatment: A randomized clinical trial
- Comparative study of slow and rapid maxillary expansion on nasal septum deviation and bone properties in patients with breathing problems- A Cone-beam computed tomography (CBCT) clinical study

## **CONFERENCES**

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- 11th World Implant Orthodontic Conference & 10th AREO International Congress: Oct. 26-29, 2019 Bucharest/ Romania
- The 93rd Congress of the European Orthodontic Society (EOS) – Montreux/Switzerland: June, 2017
- The American Association of Orthodontists annual meeting: May, 2015
- The American Association of Orthodontists annual meeting (3-7 May 2013, Philadelphia/USA)
- The 8th Jordanian Orthodontic Congress (10-11 April 2013, Jordan)
- The 7th Jordanian Orthodontic Congress (6-7 April 2011, Jordan)
- The 9th Arab Orthodontic Congress (14-18 Oct. 2009, Tunisia)
- The American Association of Orthodontists annual meeting (2-5 May 2009, Boston/USA)
- The 6th Jordanian Orthodontic Congress (2-3 April, 2009; Jordan)
- The XII International Symposium on Dentofacial Development and function (16-18<sup>th</sup> Oct. 2008, Egypt)
- The 8th Arab Orthodontic Congress (Nov.13-15th 2007, Syria)
- The 5th Jordanian Orthodontic Congress (Nov. 22-23rd 2006, Jordan)
- The Seventh Arab & Fourth Jordanian Orthodontic Congress (Nov. 21-22nd 2005, Jordan)

## CONTINUOUS EDUCATION (COURSES)

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- Control of the vertical plane with TADs by Dr. Pablo Echarri. (Webinar). The Jordanian Orthodontic society (2020)
- Complex vertical problems treated with Aligners (Webinar). The Jordanian Orthodontic society. (2020)
- Multidisciplinary management of missing maxillary lateral incisors (Webinar). The Jordanian Orthodontic society. (2020)
- Vertical control with TADs: Etiology and treatment modalities of anterior open bites and relapse (Webinar). The Jordanian Orthodontic society. (2020)
- Webinar Moodle online exams. The University of Jordan. (2020)
- Webinar on Microsoft teams. The University of Jordan
- Orthodontic tips and pearls. Scientific course, The Jordanian Orthodontic society. (19-20/12/2019)
- Temporary anchorage devices in Orthodontics. Post-congress course. The Jordanian Orthodontic society. (2019)
- Mini-plates use in Orthodontics. Pre-congress course. Dr. Hugo De Clerck (2019)
- Orthodontic: Getting good results every time. (2019)
- Creative Orthodontics unfolding: Damon system. (2019)
- High Tech future in Orthodontics with Dual Activation. (2019)
- Orthodontic mini-implant course. Dr. Richard Cousely. Amman. Jordan. (2019)
- Management of anterior open bite. Prof. Haluk Iseri (Turkey)
- Biomechanics in Orthodontics a new approach using innovative Arch wires. Scientific course, The Jordanian Orthodontic society. (2018)
- Clinical Tips in Orthodontics. (2018)
- Self ligating Brackets: Concepts and Technique (2018)
- Palatal Distraction. Martin Roser (Germany). Jordanian Society of Oral and Maxillofacial Surgery/ Jordanian Dental Association. (2018)
- The Reality behind Finishing. The Jordanian Orthodontic society. (2018)
- 3Shape: TRIOS intraoral Scan Training (Workshop). (2018)
- Planning for Orthognathic Surgeries (Workshop) held during the 25th Jordanian International Dental Conference. (2017)
- Treatment of class II malocclusions (Workshop). (2017)
- Efficiency and Innovation in clinical orthodontics (Workshop). (2017)

- The Dual System Philosophy Program Course. (2017)
- The advanced eon Aligner Course. (2017)
- Effective early treatment: key points and new procedures. By Dr. Marco Rosa (2015)
- Complex orthodontic treatment in adult patient. By Dr. Juan Carlos Perez Varella. (2015)
- Contemporary orthodontic management of Class II malocclusion. By Dr. Liza Alverto. (2014)
- Effective orthodontic treatment. By Prof. Hero Breuning (2014)
- Basic life support Course. Jordan University Hospital (2013)
- 2 D Lingual Orthodontics from A to Z (Prof. Vittorio Cacciafesta, 11-12 May 2013, Lebanon)
- Biomechanics and Esthetic-based Orthodontic Treatment Strategies (Prof. Ravindra Nanda, 9 April 2013)
- Comprehensive Application of Micro-implants in Orthodontics (Prof. Won Moon, 12 April 2013, Jordan)
- Mini-residency in Orthodontics (University of North Carolina/USA, Oct 2012)
- Adult Orthodontics (Prof. Birte Melsen, Jan. 12<sup>th</sup> 2012)
- New Aspects of Orthodontic Therapy: An Evidence-Based Overview (Prof. William Proffit, Nov. 10-11<sup>th</sup> 2011, Jordan)
- Clear Path Orthodontics (July 1<sup>st</sup> 2011)
- Orthognathic Surgery: Current Advances & Hands-on 3D Planning (June 3rd 2011, Jordan)
- Bag of Tricks: Your Guide to Management of Complicated Orthodontic Cases (Prof. B. Rabie, April 8<sup>th</sup> 2011)
- Early Orthodontic Treatment: Evidence-Based or Practice Management (Prof. Peter Ngan, April 5<sup>th</sup> 2011)
- Orthognathic Surgery (Prof. Thomas, April 9-10<sup>th</sup> 2010)
- Self Ligation and MBT Philosophy (Feb. 18<sup>th</sup> 2010, Jordan)
- Indirect Bonding Technique (Jan. 15<sup>th</sup> 2010, Jordan)
- The Damon System (Feb. 11-12<sup>th</sup> 2010, Jordan)
- Interdisciplinary Management of Missing Maxillary Central &/or Lateral Incisors (Prof. Zachrisson & Stenvik, April 1<sup>st</sup> 2009, Jordan)
- Orthodontic Lingual Technique (Dr. Stefano Velo, Nov. 28-29<sup>th</sup> 2008)

- How to Achieve the Best Esthetics for your Patient (Prof. Zachrisson, Oct. 15<sup>th</sup> 2008, Egypt)
- Orthodontic Pearls Course "Fixed Appliances and Mini-Screws (Aug. 21<sup>st</sup> 2008, Jordan)
- Dental Asymmetries and asymmetrical mechanics (March 20<sup>th</sup> 2008)
- The straight Wire Appliance (Nov. 23<sup>rd</sup> 2007)
- Passive self Ligation/ Micro implants/ Computer Generated Technology (Dr. Mahony, Sept 6-7<sup>th</sup> 2007)
- Multidisciplinary approach in Orthodontic Treatment (Aug. 3<sup>rd</sup> 2007)
- Lingual Orthodontics (Dec. 15<sup>th</sup> 2006)
- T.M.J. Diagnosis and Appliances (Nov. 24<sup>th</sup> 2006)
- Management of Class III Malocclusion (Sept 1<sup>st</sup> 2006)
- Micro Implant Anchorage Orthodontic: Hands-on course (Prof. Hee-Moon Kyung, June 29-30<sup>th</sup> 2006)
- Orthodontics & Implantology (Dr. Nejet Erverdi, May 2006)
- Excellence in Orthodontics (Drs Harradine & Birnie, Nov. 21-22<sup>nd</sup> 2005)

## **LANGUAGES**

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Arabic (mother tongue), English, French