Ahmed Ashraf Mohamed Holiel

Nationality: Egyptian **Date of birth:** 9 Jul 1988

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Home: Campschizar, Alexandria (Egypt)

EDUCATION AND TRAINING

Bachelor`s Degree in oral and dental surgery (Honors)
Faculty of dentistry- Alexandria University [Aug 2005 – Jul 2010]

Internship dentist
Faculty of dentistry- Alexandria University [Sep 2010 – Oct 2011]

Master`s Degree in Restorative & Esthetic Dentistry
Conservative Dentistry Department, Faculty of dentistry- Alexandria University [Aug 2012 – Jan 2016]

PHD Degree in Restorative & Esthetic Dentistry
Conservative Dentistry Department, Faculty of dentistry- Alexandria University [Sep 2016 – Mar 2021]

WORK EXPERIENCE

Demonstrator at Conservative Dentistry Department
Faculty of dentistry- Alexandria University [Mar 2012 – Mar 2016]

Assistant Lecturer at Conservative Dentistry Department
Faculty of dentistry- Alexandria University [Feb 2016 – Jun 2021]

Lecturer at Conservative Dentistry Department
Faculty of dentistry- Alexandria University [Jun 2021 – June 2026]

Visiting Lecturer at Conservative Dentistry Department
Arab Academy for Science, Technology and Maritime Transport, El Alamein [Sep 2021-Sep 2024]

Visiting Assistant professor at Restorative Sciences Department
Beirut Arab University, Lebanon [Jan 2024 – March 2024]

Assistant professor at Restorative Sciences Department
Beirut Arab University, Lebanon [Sep 2024 – August 2026]

Associate professor at Restorative Sciences Department
Beirut Arab University, Lebanon [August 2026 – current]

TEACHING AND CLINICAL EXPERIENCE

- Member of CAD-CAM team, Faculty of dentistry- Alexandria University (2017)
- Course coordinator for 5th year Operative Dentistry, Conservative dentistry department,Faculty of dentistry, Alexandria University (2017- Present)
- Course director for 4th year Operative Dentistry, Credit hour system, Conservative dentistry department, Faculty of dentistry, Alexandria University (2023)
- Course director for 3rd year Operative Dentistry, Conservative dentistry department, Faculty ofdentistry, Arab Academy for Science, Technology, Alalamin (2023)

- Course director for Post Graduate Operative Dentistry Laboratory (national and international system), Conservative dentistry department, Faculty of dentistry, Alexandria University (2021-present)
- Assigned mentor for second year students at the faculty of dentistry, Alexandria University (2022, 2023)
- Lecturer of Restorative & Esthetic Dentistry for undergraduate and postgraduate (national andinternational credit hour system) (2021-present)
- Lecturer for the Tissue engineering and regenerative medicine Master Program at the Tissueengineering laboratories, Faculty of dentistry, Alexandria University. (2023)
- Lecturer for the Clinical master's degree in Laser Oral Laser Applications (Dual Master's degreeprogram, Alexandria University & University of Barcelona) (2023)
- Lecturer for the Esthetic Restorative Certificate Program, Faculty of dentistry, Alexandria University (2023)
- Division director Operative& Esthetic Dentistry Division, Restorative sciences Department, Beirut Arab University [Sep 2024 – Current]
- Head of student activities department, Faculty of Dentistry, Beirut Arab University [Sep 2024 – Current]
- Member of Quality assurance committee and Postgraduate research committee, Faculty of Dentistry, Beirut Arab University [Sep 2026 – Current]

LANGUAGE AND TECHNICAL SKILLS

- Fluent speaker of Arabic, English
- Excellent computing skills (Microsoft word, excel, endnote, PowerPoint…etc.)

COMMUNICATION AND INTERPERSONAL SKILLS

- Communication and interpersonal skills
- Assistant Practitioner in NeuroLingusistic Programming (Southwestern Accreditation Council)

INTERNATIONAL PUBLICATIONS

- Hegazy RA, Mahmoud EM, **Holiel AA**. Effect of Low-Level Diode Laser on Dentin Topography and Symptomatic Noncarious Cervical Lesions Prior to Composite Restorations: A Split-Mouth Randomized Controlled Trial. ***Journal of Evidence-Based Dental Practice***. 2024 Jun 1;24(2):101969. https://doi.org/10.1016/j.jebdp.2024.101969

- **Holiel AA**, Mustafa HM, Sedek EM. Biodegradation of an injectable treated dentin matrix hydrogel as a novel pulp capping agent for dentin regeneration. ***BMC Oral Health***. 2023 Feb 25;23(1):126. https://doi.org/10.1186/s12903-023-02831-4

- **Holiel AA**, Sedek EM. Marginal adaptation, physicochemical and rheological properties of treated dentin matrix hydrogel as a novel injectable pulp capping material for dentin regeneration. ***BMC Oral Health***. 2023 Nov 28;23(1):938. https://doi.org/10.1186/s12903-023-03677-6

- Abbassy KM, Elmahy WA, **Holiel AA**. Evaluation of the proximal contact tightness in class II resincomposite restorations using different contact forming instruments: a 1-year randomized controlled clinical trial. ***BMC Oral Health***. 2023;23(1):729. https://doi.org/10.1186/s12903-023-03462-5

- Morsy N, **Holiel AA**. Color difference for shade determination with visual and instrumental methods: a systematic review and meta-analysis. ***Syst Rev.*** 2023 Jun 8;12(1):95. https://doi.org/10.1186/s13643-023-02263-9

- El Raggal A, Gad I, **Holiel AA**, Alshabib A, Alharbi N, Silikas N, Watts D. Bond strengths, microleakage, microgaps, and marginal adaptation of self-adhesive resin composites to tooth substrates with and without preconditioning with universal adhesives. ***The Journal of Adhesive Dentistry*** 2023 https://doi.org/10.3290/j.jad.b4949691

- Grawish ME, Grawish LM, Grawish HM, Grawish MM, **Holiel AA**, Sultan N, El-Negoly SA. Demineralized dentin matrix for dental and alveolar bone tissues regeneration: an innovative scope review. ***Tissue Eng Regen Med***. 2022 Aug;19(4):687-701. https://doi.org/10.1007/s13770-022-00438-4

- **Holiel AA**, Mahmoud EM, Abdel-Fattah WM. Tomographic evaluation of direct pulp capping using a novel injectable treated dentin matrix hydrogel: a 2-year randomized controlled clinical trial. *Clin Oral Investig* 2021.https://doi.org/10.1007/s00784-021-03775-1

- **Holiel AA,** Mahmoud EM, Abdel-Fattah WM, Kawana KY. Histological evaluation of the regenerative potential of a novel treated dentin matrix hydrogel in direct pulp capping. ***ClinOral Investig*** 2020. https://doi.org/10.1007/s00784-020-03521-z

- Abdelaal, A.M., Kehela, H.A. & **Holiel, A.A**. Fracture resistance and fractographic analysis of pressable glass-ceramics with different partial coverage designs for maxillary premolars. ***BMC Oral Health*** 24, 1078 (2024). https://doi.org/10.1186/s12903-024-04809-2

- Morsy N, El Kateb M, Ghoneim MM, **Holiel AA**. Surface roughness, wear, and abrasiveness of printed and milled occlusal veneers after thermomechanical aging. ***The Journal of Prosthetic Dentistry***. 2024 Nov 1;132(5):984-e1. https://doi.org/10.1016/j.prosdent.2024.07.012

- Soliman EM, Abdelfattah WM, Mohamed DR, Nagui DA, **Holiel AA**. Topographic evaluation of the remineralizing potential of biomimetic scaffolds on enamel white spot lesions: an in vitro study. ***Journal of Esthetic and Restorative Dentistry***. 2025 Apr;37(4):1062-74. https://doi.org/10.1111/jerd.13381

- El-Salamouny, N.A., Elmahy, W.A. & **Holiel, A.A**. Comparative evaluation of bioactive alkasite-based material in different application modes: a 1-year randomized controlled clinical trial. ***Odontology*** (2025). https://doi.org/10.1007/s10266-025-01095-4

- Gonzaga JA, Ávila AJ, Hardan L, Alonso NV, Suárez CE, Nassar N, **Holiel AA**, Kharouf N, Haikel Y, Bourgi R. Calcium and Microhardness Quantification in Healthy and Fluorotic Dentin Conditioned with a Self-Etching System: An In Vitro Study. ***Dentistry Journal***. 2025 Apr 17;13(4):168. https://doi.org/10.3390/dj13040168

- **Holiel AA**, Mahmoud EM, Abdel-Fattah WM, Kawana KY. Regenerative Potential Of A NovelTreated Dentin Matrix Hydrogel In Pulp Capping***. J Dent Res*** 2020, 99 (Spec Iss A): 0996

- **Holiel A**, Abdel-fattah W. Bonding and Morphological Evaluation of a Multi-mode Adhesive Resin Cement to Enamel and Dentin. ***J Dent Res*** 2018, 97 (Spec Iss B): 1432. DOI:10.13140/RG.2.2.22350.51521

- Sedek EM, **Holiel AA**. Next-Generation Strategies for Enamel Repair and Regeneration: Advances in Biomaterials and Translational Challenges. ***Tissue Engineering and Regenerative Medicine***. 2025 May 10:1-9. https://doi.org/10.1007/s13770-025-00725-w

- Bourgi R, Etienne O, **Holiel AA**, Cuevas-Suárez CE, Hardan L, Roman T, Flores-Ledesma A, Qaddomi M, Haikel Y, Kharouf N. Effectiveness of Surface Treatments on the Bond Strength to 3D-Printed Resins: A Systematic Review and Meta-Analysis. ***Prosthesis.*** 2025 May 23;7(3):56. https://doi.org/10.3390/prosthesis7030056

- **Holiel AA**, Yomna M, Morsy N. Mechanical, Surface and Physicochemical Properties of Nanozeolite-Modified 3D Printed Hybrid Ceramics at Varying Concentrations: An In Vitro Study. ***Journal of Esthetic and Restorative Dentistry.*** 2025 September. https://doi.org/10.1111/jerd.70033

- Hawwa H, **Holiel AA.** Digitally Driven Smile Rehabilitation: A Fully Guided Workflow Using Dual-Layer Composite Injection Molding. ***Clin Case Rep.*** 2025 Nov 23;13(11):e71519. https://doi.org/10.1002/ccr3.71519

- **Holiel AA**, Hardan L, Cuevas-Suárez CE, Sar Sancakli H, Khafaja S, Breschi L, Bourgi R. Effectiveness of surface treatments and adhesive strategies for bonding to sclerotic dentin: a systematic review. ***The Journal of Adhesion***. 2026 Jan 5:1-9. https://doi.org/10.1080/00218464.2025.2611958

- Soliman EM, Abdelfattah WM, Mohamed DR, Nagui DA, **Holiel AA**. Clinical evaluation of the remineralizing potential of biomimetic scaffolds on enamel white spot lesions: A 12-Month Randomized Controlled Trial***. Journal of Dentistry***. 2025 December https://doi.org/10.1016/j.jdent.2025.106303

- Hazko, S.; **Holiel, A.A**.; Bourgi, R.; Cuevas-Suárez, C.E.; Kmeid, R.; Hardan, L.; Osman, A.; Flores-Ledesma, A.; Kharouf, N.; Nassar, N. Microbial Adhesion on 3D-Printed Composite Polymers Used for Orthodontic Clear Aligners: A Systematic Review and Meta-Analysis of In Vitro Evidence. ***J. Compos. Sci.*** 2026, 10, 26. https://doi.org/10.3390/jcs10010026

- **Holiel, A.A.;** M. Al Nakouzi, M.; Bourgi, R.; Cuevas-Suárez, C.E.; Olivares Acosta, I.; Hardan, L.; Kharouf, N.; Haike Y. A Systematic Review and Meta-Analysis on the Clinical Performance and Longevity of Bioactive Composite Resin Restorations. ***J. Compos. Sci.*** 2026, 10, 39. https://doi.org/10.3390/jcs10010039

- Jabr J, Bahlouli N, Jmal H, Nassar N, **Holiel AA**, Kmeid R, Bourgi R, Kharouf N. Effect of adhesive removal methods on the shear bond strength of reconditioned orthodontic brackets: An updated systematic review and meta-analysis of in vitro studies. ***International Journal of Adhesion and Adhesives***. 2026 Aug 1;149:104334.

- **Holiel AA,** Hegazy RA, Sedek EM. Effect of diode laser on dentin surface properties, adhesive performance, and clinical outcomes of non-carious cervical lesion restorations: A 24-month split-mouth randomized controlled trial. ***Journal of Dentistry***. 2026 Mar 12:106629.

- Bourgi R, **Holiel AA**, Cuevas-Suárez CE, Fernández-Barrera MÁ, Piva E, Hardan L, Roman T, Kharouf N, Haikel Y. Effect of chlorhexidine pretreatment on clinical performance of adhesive restorations: a systematic review and meta-analysis. ***Frontiers in Dental Medicine***. 2026 Mar 9;7:1746184.

- Nassar N, Corbani K, Bourgi R, Kmeid R, Cuevas-Suárez CE, A. **Holiel A**. Enamel Integrity and Residual Composite Following Clear Aligner Attachment Removal: A Systematic Review. ***Clinics and Practice***. 2026 Feb 27;16(3):51.

- Morsy SM, Bourgi R, Hardan L, Cuevas-Suárez CE, Kharouf N, Holiel AA. Bonding and fractographic characterization of universal adhesives applied to dentin in multimode strategies: an in vitro study. ***Restorative Dentistry & Endodontics***. 2026 Feb 26;51(1):e12.

- Solh SK, **Holiel AA**, Tarabaih AS. Atraumatic Versus Silver-Modified Atraumatic Restorative Treatment in Primary Molars: A Randomized Clinical Trial on Minimally Invasive Caries Management and Oral Health-Related Quality of Life. ***Clinical and Experimental Dental Research***. 2026 Feb;12(1):e70299.

CONFERENCES AND SEMINARS

Conferences

- "Artistry in Anterior Composite Veneer Restorations workshop" Continuing Education Center, Beirut Arab University (Jan, March, June, August, October 2026).
- "Tips and tricks in posterior composite restorations workshop" Continuing Education Center, Beirut Arab University (March, August 2025).
- Invited Speaker in the Union of Palestinian Dentists in Lebanon Scientific Event – November 2025 – Beirut Arab University
- Invited Speaker at the Beirut International Dental Conference – October 2025 – Beirut, Lebanon.
- Oral presentation and workshop LADS Lebanese association of dental students 2024
- Oral presentation and workshop Intl Dental Scientific Congress in Alamein 2023
- Oral presentation Cairo International Dental Congress 2023
- Scientific Organizer (IADR session) in Alexandria International Dental Congress 2022.
- Oral presentation Africa Health ExCon 2022: Current Applications of AI in the different fields of Dentistry & connecting Africa's Oral Healthcare through Data & data mining.
- Oral presentation in Egy Health Expo 2022: The FIRST AI workshop in Egypt in the Dental Sciences
- Oral presentation in IADR/AADR Egyptian Session Meeting 2021.
- Poster presentation in IADR/AADR General Session Meeting (Washington, USA) 2020.
- Poster presentation in IADR/PER General Session Meeting (London, England) 2018.
- Scientific Organizer in 20 Alexandria International Dental Congress 2018.

NETWORKS AND MEMBERSHIPS

Memberships

- Member of International Association for Dental Research (Member ID: 802142).
- Member of Egyptian Association for Dental Research Section of IADR.
- Tissue Engineering and Regenerative Medicine International Society
- Tissue Engineering and Regenerative Medicine Society

HONOURS AND AWARDS

- FIRST researcher in the Faculty of Dentistry, Alexandria University, to be exempted from thesis defense to obtain the PhD degree after publishing 2 articles in one of the top 50% peer reviewedjournals ranked by ISI "Clinical Oral Investigations."
- Winning back up Egyptian Hatton Award Competition Feb 2021 (International association for dental research)
- Faculty of Dentistry- Alexandria University Certificate of recognition for publishing in ISI top (50%) indexed international journals- 2022.
- Appreciation trophy (student selection) from the Bachelor of Dental Science-credit hour system 2019.
- Certificate of recognition from the head of the conservative dentistry department for outstanding contribution in representing the department at national and international scientific events- September 2018.

EDITORIAL EXPERIENCE

- Peer reviewer for the journal "***Clinical Oral Investigations***" in selected publications, 2021-current time.
- Peer reviewer for the journal "***BMC Oral Health***" in selected publications, 2021-current time
- Peer reviewer for the journal "***Caries Research***" in selected publications, 2022-current time
- Peer reviewer for the journal "***Helyion***" in selected publications, 2022-current time.
- Peer reviewer for the journal "***Clinical Pediatric Dentistry***" in selected publications, 2022-current time
- Peer reviewer for the journal "***Odontology***" in selected publications, 2024-current time
- Peer reviewer for the journal "***International journal of nanomedicine***" in selected publications, 2024-current time
- Peer reviewer for the journal "***European Journal of Dentistry***" in selected publications, 2024-current time
- Peer reviewer for ***Alexandria Dental Journal***

- Peer reviewer for ***Proceedings of the Institution of Mechanical Engineers***.
- Peer reviewer for ***SAGE open medical case reports***.
- Academic Editor in ***Archives of Dentistry***
- Editorial board member BMC Oral Health Q1 Scopus/ Q1 Web of science international dentistry journal- March 2026
- Invited Guest Editor, Biomedical Engineering and Computational Biology – December 2025. Special Issue Title: "Artificial Intelligence and Machine Learning in Transformative Dental and Oral Surgical Care."
- Invited Guest Editor, Journal of Visualized Experiments (JoVE) – November 2025. Special Issue Title: "Advances in Biomimetic and Regenerative Approaches in Restorative Dentistry."
- Editorial board member, Digital Dentistry Connect October 2026

TRAINING

- Online Training: Digital Transformation Leaders, Alexandria University (2020)
- Workshop: Conversion to single best answer (SBA) and case scenarios exams (2023)
- Training Manchester Alexandria BDS Joint Degree (2023)
- Training in Laser Oral Laser Applications (Barcelona Alexandria Dual Master's degree program, 2023)
- Demonstration on CAD/CAM Intra Oral Scan and 3D Printing (Beirut Arab University 2025.