

**Duygu Karasan DDS, PhD**

University of Geneva, Clinics for Dental Medicine  
Division of Fixed Prosthodontics and Biomaterials

*Chair: Prof Irena Sailer*

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**Date of Birth:** May 14, 1987

**EDUCATION**

7/2008	University of California, Los Angeles (UCLA), Los Angeles, CA, USA Visiting Dentistry Student <i>Department:</i> Oral and Maxillofacial Surgery
8/2008	University of California, Los Angeles (UCLA), Los Angeles, CA, USA Visiting Dentistry Student Center for Esthetic Dentistry <i>Director:</i> Dr. Edward McLaren
9/2003-6/2009	Hacettepe University Faculty of Dentistry, Ankara, Turkey Undergraduate Dentistry Education <i>Degree:</i> DDS
9/2009-7/2014	Hacettepe University Faculty of Dentistry, Ankara, Turkey Post-Graduate Student and Research Assistant <i>Department:</i> Prosthodontics <i>Degree:</i> PhD, specialist in Prosthodontics
10/2013-2/2014	University of Freiburg School of Dentistry, Freiburg, Germany Visiting Researcher and Visiting Post-Graduate Student <i>Department of</i> Prosthodontics <i>Supervision:</i> Prof. Dr. h.c. J. R. Strub and Prof. Dr. Wael Att
9/2018-8/2019	University of Geneva, University Clinics of Dental Medicine, Geneva, Switzerland ITI Scholar Division of Fixed Prosthodontics and Biomaterials <i>Supervision:</i> Prof. Dr. Irena Sailer

**PROFESSIONAL EXPERIENCE**

9/2020-present	Teaching & Clinical & Research Assistant University of Geneva, University Clinics of Dental Medicine, Geneva, Switzerland
9/2020-present	Supervisor Master for Digital Dental Technologies University of Geneva, University Clinics of Dental Medicine, Geneva, Switzerland
9/2019-9/2020	Research Assistant University of Geneva, University Clinics of Dental Medicine, Geneva, Switzerland
9/2018-8/2019	ITI Scholar University of Geneva, University Clinics of Dental Medicine, Geneva, Switzerland
7/2014-9/2018	Faculty member Hacettepe University, Faculty of Dentistry, Ankara, Turkey
7/2014-9/2018	Clinical Supervisor and teaching fellow in 5 <sup>th</sup> grade clinical courses Hacettepe University, Faculty of Dentistry, Ankara, Turkey
10/2013-2/2014	Visiting researcher University of Freiburg School of Dentistry, Freiburg, Germany
9/2009-7/2014	Clinical & Teaching & Research Assistant, PhD Student Hacettepe University, Faculty of Dentistry, Ankara, Turkey

**ONGOING RESEARCH PROJECTS**

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- 2020** University of Geneva  
Randomized controlled clinical trial of cantilever implant reconstructions made either of monolithic zirconia supported by titanium base abutments or conventional porcelain-fused to metal *Status: On Going*
- 2020** University of Geneva  
Mechanical stability of cantilever monolithic zirconia reconstruction on titanium bases'
- 2020** University of Geneva and Ohio State University  
*Title: Accuracy of complete-arch frameworks fabricated by using intraoral scans and MUA IOS bodies*  
*Status: On Going*
- 2019** University of Geneva  
*Title: Retrospective long-term clinical study of implant abutments supporting fixed or removable reconstructions* *Status: On Going*
- 2019** University of Geneva  
*Title: Laboratory study evaluating the mechanical behavior of monolithic PICN posterior crowns bonded to titanium base abutments with different geometrical configurations after aging* *Status: on-going*

**PUBLICATIONS**

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- Karasan D., Sailer I., Lee H., Demir F., Zarauz C., Akca K. (2022)**  
Occlusal accuracy and effectiveness comparison of complete -digital vs. -analog restorative workflows for 3-unit fixed dental prostheses: a prospective cross-over clinical study  
**J Dentistry**, accepted for publication
- Karasan D., Canay S., Sailer I., Att W. (2022)**  
Zirconia cantilever FDPs supported by one- and two-implant: An in vitro study on mechanical stability and technical outcomes  
**Int J Oral Maxillofac Implants**, accepted for publication
- Legaz J, Sailer I, Mojon P, Lee H, **Karasan D. (2022)**  
Mechanical Properties of Additively Manufactured and Milled Interim 3-Unit Fixed Dental Prostheses. **J Prosthodont.** 2022 Apr 18. doi: 10.1111/jopr.13524. Epub ahead of print. PMID: 35434903.
- Eren SK, Örs SA, Aksel H, Canay Ş, **Karasan D. (2022)**  
Effect of irrigants on the color stability, solubility, and surface characteristics of calcium-silicate based cements. **Restor Dent Endod.** 2022 Feb 10;47(1):e10. doi: 10.5395/rde.2022.47.e10. PMID: 35284325; PMCID: PMC8891465.
- Karasan D, Legaz J, Boitelle P, Mojon P, Fehmer V, Sailer I. (2022)**  
Accuracy of Additively Manufactured and Milled Interim 3-Unit Fixed Dental Prostheses.  
**J Prosthodont.** 2022 Mar;31(S1):58-69. doi: 10.1111/jopr.13454. PMID: 34792821.
- Pjetursson BE, Sailer I, Latyshev A, Rabel K, Kohal RJ, **Karasan D. (2022) (EAO Consensus Conference)**  
A systematic review and meta-analysis evaluating the survival, the failure, and the complication rates of veneered and monolithic all-ceramic implant-supported single crowns. **Clin Oral Implants Res.** 2021 Oct;32 Suppl 21:254-288. doi: 10.1111/clr.13863.
- Karasan D, Att W, Sailer I, Canay S. (2021)**  
Mechanical Stability of Zirconia Implant Abutments Supporting Cantilevered Fixed Dental Prostheses After Fatigue Loading. **Int J Prosthodont.** 2021 September/October;34(5):615-625. doi: 10.11607/ijp.6700. Epub 2021 Feb 26. PMID: 33651029.
- Karasan D, Güncü MB, Ersu B, Canay Ş. (2018)**  
Biomechanical Behavior of Implants with a Sloped Marginal Configuration. **Int J Prosthodont.** 2018 Nov/Dec;31(6):587-590. doi: 10.11607/ijp.5882. PMID: 30408141.
- Messias A, **Karasan D, Nicolau PG, Pjetursson BE, Guerra F (2022)**  
Rehabilitation of full arch edentulism with fixed or removable dentures retained by root form dental implants: a systematic review of outcomes and outcome measures used in clinical research in the last 10 years. **J Clin Periodontol** and **Clin Oral Implants Res.**, accepted for publication
- Sailer I, Barbato L, Mojon P, Pagliaro U, Serni L, **Karasan D, Cairo F. (2022)**  
Single and partial tooth replacement with fixed dental prostheses supported by dental implants: a systematic review of outcomes and outcome measures used in clinical trials in the last 10 years. **Clin Oral Implants Res.** 2022 Mar 25. doi: 10.1111/clr.13926. Epub ahead of print. PMID: 35332952.

- Sailer I, Barbato L, Mojon P, Pagliaro U, Serni L, **Karasan D**, Cairo F. Single and partial tooth replacement with fixed dental prostheses supported by dental implants: a systematic review of outcomes and outcome measures used in clinical trials in the last 10 years. **J Clin Periodontol**. 2022 Mar 4. doi: 10.1111/jcpe.13612. Epub ahead of print. PMID: 35246885.
11. Sailer I, **Karasan D**, Todorovic A, Ligoutsikou M, Pjetursson BE. (2022)  
Prosthetic failures in dental implant therapy.  
**Periodontol** 2000. 2022 Feb;88(1):130-144. doi: 10.1111/prd.12416. PMID: 35103329.
12. Tango RN, Todorović A, Stamenković D, **Karasan D**, Sailer I, Paravina RD. (2022)  
Effect of Staining and Aging on Translucency Parameter of CAD-CAM Materials.  
**Acta Stomatol Croat**. 2021 Mar;55(1):2-9. doi: 10.15644/asc55/1/1. PMID: 33867532; PMCID: PMC8033622.
13. Stamenković DD, Tango RN, Todorović A, **Karasan D**, Sailer I, Paravina RD. (2021)  
Staining and aging-dependent changes in color of CAD-CAM materials.  
**J Prosthet Dent**. 2021 Nov;126(5):672-678. doi: 10.1016/j.prosdent.2020.09.005. Epub 2020 Oct 9. PMID: 33041075.
14. Ersu B, **Narin D**, Aktas G, Yuzugullu B, Canay S.(2012)  
Effect of preparation taper and height on strength and retention of zirconia crowns.  
**Int J Prosthodont**. 2012 Nov-Dec;25(6):582-4. PMID: 23101037.
15. Schwarz F, Schär A, Nelson K, Fretwurst T, Flügge T, Ramanauskaitė A, Trimpou G, Sailer I, **Karasan D**, Fehmer V, Guerra F, Messias A, Nicolau P, Chochlidakis K, Tsigarida A, Kernen F, Taylor T, Vazouras K, Herklotz I, Sader R. Recommendations for Implant-Supported Full-Arch Rehabilitations in Edentulous Patients: The Oral Reconstruction Foundation Consensus Report. *Int J Prosthodont*. 2021 Suppl;34:s8-s20. doi: 10.11607/ijp.consensusreport. PMID: 33571323.
16. Legaz J, **Karasan D**, Fehmer V, Sailer I. (2020)  
The 3D-printed prototype: a new protocol for the evaluation and potential adaptation of monolithic all-ceramic restorations before finalization. *Quintessence Int*. 2020;51(7):538-544. doi: 10.3290/j.qi.a44635. PMID: 32500861.

## HONORS, CERTIFICATIONS & RECOGNITION

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2021	<i>ITI Fellow, Swiss Section</i>
9/2018-8/2019	<i>ITI Scholarship, University of Geneva, Clinics of Dental Medicine, Division of Fixed Prosthodontics and Biomaterials</i>
9/2016	The Young Prosthodontic Educators (YPE) Workshop, Karlsruhe, Germany
9/2015	“ <i>Outstanding Poster Presentation</i> “ award for poster presentation at 16 <sup>th</sup> Meeting of the International College of Prosthodontists (ICP), Seoul, Korea
5/2004	<i>Title: “Implant Prosthetic Rehabilitation with Vascularized Iliac Graft: A Clinical Report”</i> “ <i>Best Project in Biology</i> ” MEF National High School Project Competition <i>Title: Effects of Exogenous Leptin Application on Mice Duodenum</i>

## GRANTS AWARDED

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2020	Research Grant-ITI “ Randomized controlled clinical trial of cantilever implant reconstructions made either of monolithic zirconia supported by titanium base abutments or conventional porcelain-fused to metal”
2020	Grant-Oral Reconstruction Foundation (ORF) to support a study titled ‘ <i>Mechanical stability of cantilever monolithic zirconia reconstruction on titanium bases</i> ’
2019	Industrial Grant- to support a study titled ‘ <i>Laboratory study evaluating the mechanical behavior of monolithic PICN posterior crowns bonded to titanium base abutments with different geometrical configurations after aging</i> ’
9/2018-8/2019	ITI Grant for scholarship year in Geneva, University of Geneva, Clinics of Dental Medicine, Division of Fixed Prosthodontics and Biomaterials
2018	Research Grant- Hacettepe University Scientific Research Projects Coordination Unit to support a study titled ‘ <i>The clinical evaluation of occlusal accuracy of digital and conventional prosthetic fabrication work-flows</i> ’
2014	Education Grant- Hacettepe University Scientific Research Projects Coordination Unit for research activities in Universtiy of Freiburg
2014	Research Grant- The Scientific and Technological Council of Turkey to support a study titled ‘ <i>Mechanical stability of zirconia implant abutments supporting cantilevered fixed dental prostheses after fatigue loading</i> ’

**INVITED LECTURES**

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- 2021 **EDAD (Turkish Academy of Esthetic Dentistry)**  
“Digital Dental Technologies and Their Applications in Implantology: Practical Recommendations”
- 2021 **SEPA Sevilla 2021 Congress**  
Moderator in “Symposium: Clinical Applications of Digital Dentistry”
- 2021 **SEPA Sevilla 2021 Congress**  
“Intraoral Scanners. Are they necessary?”
- 2021 **ITI Study Club, Izmit**  
“Treatment Approaches and Material Selection: Extended Edentulous Spaces in the Esthetic Zone”
- 2021 **ITI World Symposium**  
“Treatment Approaches and Material Selection: Extended Edentulous Spaces in the Esthetic Zone”
- 2020 **Straumann Turkey, Online Education Days**  
Implant Rehabilitation of Edentulous Patients: Prosthetic Alternatives and Decision Making Process
- 2019 **Oral Reconstruction Foundation, Expert Meeting, Prague, Czech Republic**  
“The Influence of Patient Related Factors and Material Selection on the Clinical Outcomes of Fixed and Removable Complete Implant Prostheses. “

**ORAL PRESENTATIONS**

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- 9/2015 16<sup>th</sup> Meeting of the **International College of Prosthodontists (ICP)**, Seoul, Korea  
*Title:* “Resistance to Fracture of Zirconia Implant Abutments Supporting Cantilevered Fixed Dental Prostheses”  
*Authors:* **Karasan D**, Canay S, Att W
- 9/2013 15<sup>th</sup> Meeting of the **International College of Prosthodontists (ICP)**, Turin, Italy  
*Title:* “The Effect Of Margin Ceramics On Pink Esthetics And Soft Tissue Health Of Single Unit FDPs: A Split-Mouth Pilot Study.”  
*Authors:* **Karasan D**, Guler U, Canay S
- 9/2012 36<sup>th</sup> Annual Conference of the **European Prosthodontic Association (EPA)**, Rotterdam, The Netherlands  
*Title:* “The Fracture strength of E-glass Fiber reinforced acrylic resin mandibular overdentures retained by 2 or 4 implants.”  
*Authors:* **Karasan D**, Ersu B, Canay S
- 9/2011 35<sup>th</sup> Annual Conference of the **European Prosthodontic Association (EPA)**, Bern, Switzerland  
*Title:* “Effect of preparation taper and height on strength and retention of zirconia crowns.”  
*Authors:* Ersu B, **Karasan D**, Canay S

**LANGUAGES SPOKEN**

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English – Fluent  
French – Very good level  
Turkish – Native