AMERICAN COLLEGE OF PROSTHODONTISTS
Education Foundation
Advancing prosthodontics through education and research

2005 – 2024 ACP Education Foundation

Research Fellowships

2024 Fellowship Awardees

- *In Vitro Comparative Analysis of a Novel Dual-Purpose Dental Implant Indexing Device and Photogrammetry in Full Arch Implant Rehabilitation*

  Principal Investigator: Sherwin William Bonab, BDS
  School: Harvard University (2027)

- *Screwing Around with Stress: A Comprehensive Analysis of Screw-Retained Prostheses with Elimination of Titanium Base Abutments: A Laboratory Study*

  Principal Investigator: Julia L. Collazo, DDS
  School: United States Navy (2026)

- *The Effect of Polishing on the Flexural Strength of 3D Printed and Milled 3Y-TZP and 5Y-TZP.*

  Principal Investigator: Salma Elsaadany, BMSc, DMD
  School: University of Michigan (2026)

- *Economical approach to digitalize single crown preparation using smartphone and deep learning: An in vitro investigation*

  Principal Investigator: Fatma Mohamed, BDS, MS, PhD
  School: University of Michigan (2026)

- *Evaluation of Zirconia-infused nano hybrid resin, Composite resin, milled and autopolymerising PMMA materials for fixed restorations: an in vitro study.*

  Principal Investigator: Gowri Vijay Reesu, BDS, MS, PhD
  School: University of Manitoba (2026)

2023 Fellowship Awardees

- *Reverse scan body: A Novel Technique for Capturing and Verifying Full-Arch Digital Implant Impressions: In-Vitro Study.*

  Principal Investigator: Ahmed A. Elsayyad, BDS, MSc
  School: University of British Columbia (2026)

- *Influence of a photosensitizer loading on the physicochemical and antimicrobial properties of a denture resin for additive manufacturing*

  Principal Investigator: Amr Farrag, BDS
  School: University of British Columbia (2025)

- *Repairability of a 3D printed resin: Effects of surface treatment and the type of repair resin on the shear bond strength.*

  Principal Investigator: Andreas Onisiforou, DMD
  School: University of Michigan (2025)

- *Stability of Angled Multi-unit Abutments in Complete-Arch Fixed Implant-Supported Prostheses*

  Principal Investigator: Mevadee Pibulniyom, DDS
  School: University of Washington (2025)

- *Effects of Rapid Sintering Protocols on Colorimetric and Optical Properties of Dental Zirconia with Different Yttria Concentrations*

  Principal Investigator: Zidu Zeng, DMD
  School: University of Pennsylvania (2025)

2022 Fellowship Awardees

- *Retention of Milled vs 3D Printed Zirconia of Three Different Intaglio Surface Roughness bonded to Pretreated Ti-base Abutments: In-vitro Study.*

  Principal Investigator: Rama N. Al-Rashdan, BDS
  School: University of Michigan (2024)

- *Effect of Angulation of Multi-Unit Abutments on the Accuracy of Photogrammetric Imaging*

  Principal Investigator: Abdul Andejani, BDS
  School: University of Illinois At Chicago (2024)

- *The Effects of Anodization and Surface Instrumentation on the Titanium Surface*

  Principal Investigator: Wei-qing Liu, DMD
  School: Indiana University (2025)

- *Wettability of Saliva Substitutes on CAD/CAM Denture Base Materials*

  Principal Investigator: Paul Mikhail, DMD
  School: University of Manitoba (2024)

- *Effect of artificial aging and immersion in common beverages on the optical properties of 3D printed zirconia*

  Principal Investigator: Athanasios Rigos, DDS
  School: Texas A&M University (2025)

2021 Fellowship Awardees

- *Comparison of Surface Characteristics of Denture Base Resin Materials with Two Different Surface Treatment Protocols*

  Principal Investigator: Hesham K. Alouthah, BDS
  School: Indiana University (2023)

- *Trueness and Precision of Economical Smartphone-Based Virtual Facebow Records: A Comparison Between Smartphone Results and Industrial 3D Scanner Results*

  Principal Investigator: Robert J. Ault, DDS
  School: University of Michigan (2023)

- *Bond Strength of Titanium Copings to Implant-Supported Fixed-Detachable Dental Prostheses*

  Principal Investigator: Sieu Yien (Ashley) Chiam, DDS
  School: University of Washington (2023)

- *In-Vitro Analysis of Two-body Wear of 3-Dimensional-Printed Occlusal Splint Materials Against Different Antagonists of Fixed Prosthodontic Restorative Materials*

  Principal Investigator: Bhavinkumar Balendrakumar Patel, BDS
  School: University of Michigan (2023)

- *The Effect of Different Screw Angulations on the Fracture Resistance of Implant Zirconia Single Crowns Made on Two Different Implant Platforms*

  Principal Investigator: Chitipat Siriwattayacharoen, DDS
  School: Texas A&M University (2023)

2020 Fellowship Awardees

- *Evaluation of repair strength of conventional, milled, and printed PMMA provisional crown materials with different surface treatments and repair resins*

  Principal Investigator: Bright JeSuk Chang, DMD
  School: University of Alabama At Birmingham (2022)

- *The effects of additive manufacturing technologies and finish line designs on the accuracy and dimensional stability of 3D-printed dies*

  Principal Investigator: Yi-Cheng Lai, DDS
  School: Indiana University (2022)

- *Adherence of Candida albicans to digitally and conventionally fabricated acrylic resin denture bases*

  Principal Investigator: William E. Linder, DMD
  School: University of North Carolina (2022)

- *Effect of Arginine-Glycine-Aspartic Acid Peptide Coating on the Adhesion of Co-cultured Fibroblasts and Epithelial Cells to Custom Abutment Materials*

  Principal Investigator: Philip Mui, DMD
  School: University of Maryland (2023)

- *Effects of Screw-Channel Angulation and Titanium-base connection on the Fracture Resistance of Anterior Zirconia Implant Abutments*

  Principal Investigator: Chen Xuan Wei, DDS, PhD
  School: University of Michigan (2022)

2019 Fellowship Awardees

- *Dimensional Changes of Zirconia Copings Under Different Preparation Designs and Sintering Protocols*

  Principal Investigator: Walaa Magdy Ahmed, BDS, MSc
  School: University of British Columbia (2019)

- *In-vitro Analysis of Fracture Strength CAD Milled vs Printed Denture Bases with Bonded Denture Tooth*

  Principal Investigator: Brittany A. Kane, DMD
  School: University of California, Los Angeles (2021)

- *Bacterial diversity and attachment of silver-coated titanium using ALD technology, In vivo study*

  Principal Investigator: Meghan M. Koennecke, DMD
  School: University of Illinois At Chicago (2021)

- *In Vitro Evaluation of Candida albicans Adherence and Denture Disinfection Techniques on CADCAM Printed, Milled and Heat-Cured PMMA Polymers*

  Principal Investigator: Mohammad Amir Koujan, DDS, MS
  School: University of Alabama At Birmingham (2020)

- *Microbiome Characterization of Extra-Oral Implant and Soft Tissue in Direct Contact with Maxillofacial Prostheses*

  Principal Investigator: Jun Soo Shin, DDS
  School: University of Illinois At Chicago (2021)

2018 Fellowship Awardees

- *CAD/CAM Quality Assurance: Additive Manufacturing of Dies for Assessment of Fit of Full Coverage Restorations*

  Principal Investigator: Neil Griseto, BDentSc.
  School: UT Health San Antonio (2019)

- *Assessment of 3D Facial Scan Integration in 3D Digital Work Flow using Radiographic Markers and Iterative Closest Point Algorithm*

  Principal Investigator: Mohamed Elshewy, BDS, MS
  School: Marquette University (2020)

- *miR-133a and miR-135a as a Novel Target for Bone Regeneration*

  Principal Investigator: Santvana Vyas, DDS
  School: New York University (2019)

- *Effect of Nano Ceramic Coating on Color Acceptability and Perceptibility of Polymethylmethacrylate: In Vitro and Clinical Study*

  Principal Investigator: Laura Koo Min Chee, DMD
  School: University of Illinois at Chicago (2019)

- *Determining the Perceptibility and Acceptability Threshold of the Relative Translucency Parameter for Porcelain Crowns*

  Principal Investigator: Yale Cho, DMD
  School: University of Illinois at Chicago (2020)

2017 Fellowship Awardees

- *Oral Microbiome Changes Associated with Fixed Dental Prosthodontic Restoration*

  Principal Investigator: Sarah Kay Youny Lee, DDS
  School: University of North Carolina (2018)

- *Dynamic Virtual Articulation: Trueness and Precision*

  Principal Investigator: Michael R. Hsu, DDS
  School: University of Maryland (2020)

- *An in vitro Study of Osteoblasts Response to Surface-Modified Titanium and PEEK*

  Principal Investigator: Maryam Gheisarifar, DDS
  School: Marquette University (2019)

- *Effect of Accelerated Aging on the Mechanical and Optical Properties of the New Translucent Zirconia*

  Principal Investigator: Amir H. Nejat, DDS, MS
  School: Louisiana State University (2020)

- *Influence of Abutment Material, Ceramic Thickness and Luting Cement on the Color of Lithium Disilicate*

  Principal Investigator: *Diana Cuesta, DMD*
  School: *University of Illinois at Chicago (2019)*

2016 Fellowship Awardees

- *Fungal and Bacterial Pathogen Biofilm Formation on Anatomical Denture Base Materials*
  Principal Investigator: Dr. Angela Gullard
  School: University of Tennessee (2019)

- *Dimensional Stability of CAD/CAM Patterns*
  Principal Investigator: Dr. Shane S. Byun
  School: University of Maryland (2020)

- *Evaluation of marginal discrepancies of monolithic zirconia crowns under the influence of different preparation designs and sintering techniques*
  Principal Investigator: Dr. Walaa Ahmed
  School: University of British Columbia (2018)

- *Effects of CAD/CAM Acrylic on Human Gingival Fibroblast Differentiation, Proliferation, and Attachment*
  Principal Investigator: Dr. David W. Chen
  School: University of Maryland (2019)

- *Assessment of the internal fit and marginal integrity of interim crowns with different manufacturing methods*
  Principal Investigator: Dr. Chin Chun (Jean) Peng
  School: University of Washington (2018)

2015 Fellowship Awardees

- *Fracture Resistance of Pressed and Milled Lithium Disilicate Complete Coverage Restorations Following Endodontic Access Preparation*

  Principal Investigator: Dr. Petrina Gerogianni
  School: University of Texas Health Science Center at San Antonio (2017)

- *Effect of Chairside Surface Treatments on Subsurface Damage in Monolithic Zirconia*

  Principal Investigator: Dr. Kan Wongkamhaeng
  School: University of Iowa (2016)

- *Split mouth comparison of one versus two stage guided maxillary implant placement for over dentures with patient satisfaction evaluations*

  Principal Investigator: Dr. Kimberly K. Schlam
  School: University of North Carolina (2017)

- *Comparative assessment of two denture fabrication techniques: conventional vs. digital*

  Principal Investigator: Dr. Wissanee Jia-mahasap
  School: University of Iowa (2017)

- *Adherence of Microorganisms to Acrylic Resins*

  Principal Investigator: Dr. Malek R. AlShehri, BDS
  School: University of Maryland (2018)

2014 Fellowship Awardees

- *Effect of drug-eluting nanoparticles on pulpal inflammation*

  Principal Investigator: Dr. Seung Kee Choi
  School: University of Maryland, Baltimore, School of Dentistry (2017)

- *The potential of fibroblast growth factor 18 for bone regeneration*

  Principal Investigator: Dr. Siamak Najafi-Abrandabadi
  School: New York University, College of Dentistry (2016)

- *The use of topical subgingival application of simvastatin gel in the treatment of peri-implant mucositis: a pilot study*

  Principal Investigator: Dr. Ahmed Mahrous
  School: University of Iowa, College of Dentistry (2016)

- *Molecular Assessment of Peri-Implant Tissue at Bone vs. Tissue Level Implants*

  Principal Investigator: Dr. Anthony P. Gragg
  School: University of North Carolina, School of Dentistry (2016)

- *The effect of a novel implant surface incorporated with an osteogenic peptide on gene expression and osseointegration*

  Principal Investigator: Dr. Loreta Geneviciute
  School: New York University College of Dentistry (2017)

- *The Fabrication of an Acrylic Repositioning Stent for use during Intensity Modulated Radiation Therapy (IMRT): a feasibility study.*

  Principal Investigator: Dr. Vincent S. Lee
  School: University of British Columbia, Department of Oral Health Sciences (2016)

2013 Fellowship Awardees

- *Examination of Initial Wound Healing and Osseointegration of Trabecular Metal Implants (Porous Tantalum Metal Implants) between Healthy and Diabetic Subjects*

  Principal Investigator: Dr. Christian Brenes
  School: University of North Carolina School of Dentistry (2014)

- *Antibacterial Assays of Porphyromonas gingivalis on Novel Silver Embedded Titania Nanotube Surface for Dental Implants*

  Principal Investigator: Dr. Amy S. Au
  School: University of Illinois at Chicago College of Dentistry (2015)

- *The effect of stromal cell-derived factor 1 on bone regeneration in vivo*

  Principal Investigator: Dr. Gabriela Carranza
  School: New York University College of Dentistry (2014)

- *Antibiotic use in conjunction with immediate implant placement to replace teeth with apical pathology associated with endodontic origin*

  Principal Investigator: Dr. Bashir Hosseini
  School: University of North Carolina School of Dentistry

- *The potential of stem cell homing chemokine for bone regeneration*

  Principal Investigator: Dr. Jeremy D. Kay
  School: New York University College of Dentistry (2015)

- *Flexural Strength/modulus, and fracture toughness of Lava Ultimate vs eMax CAD/CAM*

  Principal Investigator: Dr. Ian D. Thornton
  School: University of British Columbia (2014)

2012 Fellowship Awardees

- *Engineered Injectable Biodegradable Scaffold as a Carrier for PDL (PDLSCs) and Gingival Mesanchymal Stem Cells (GMSCs) for Applications in Periodontal Tissue Regeneration*

  Principle Investigator: Dr. Alireza Moshaverinia
  School: University of Southern California Herman Ostrow School of Dentistry (2012)

- *The effect of novel implant surfaces on gene expression and osseointegration*

  Principle Investigator: Dr. Sanjay Karunagaran
  School: New York University School of Dentistry

- *Influence of Preparation Design on Lithium Disilicate Anterior Restorations*

  Principle Investigator: Dr. Carlos Castro
  School: New York University College of Dentistry (2012)

- *Retrieval torque and fatigue failure of cement-retained IPS e.max Press® crowns*

  Principle Investigator: Dr. Amalie Lomartire
  School: Montefiore Medical Center / Albert Einstein College of Medicine (2013)

- *A novel device for measuring patient compliance with oral appliances in the treatment of obstructive sleep apnea*

  Principle Investigator: Dr. Yves K. Smith
  School: University of Texas Health Science Center at San Antonio (2012)

- *Influence of Implant Angulations on the Fracture Resistance of Zirconia Abutments*

  Principle Investigator: Dr. Shreedevi Thulasidas
  School: University of Alabama at Birmingham School of Dentistry (2013)

2011 Fellowship Awardees

- *Prosthetic Complications With an Implant Supported Fixed Denture – The UNC Protocol*

  Principle Investigator: Dr. Bryan M. Limmer
  School: University of North Carolina at Chapel Hill (2012)

- *Immediate placement and loading of dental implants into infected sites with and without antibiotic prophylaxis: an exploratory study*

  Principle Investigator: Dr. Edward J. Givens, Jr.
  School: University of North Carolina at Chapel Hill (2012)

- *The effect of a bioactive collagen membrane carrying PDGF on bone regeneration*

  Principle Investigator: Dr. Terry Y. Lin
  School: New York University College of Dentistry (2011)

- *Cell-sheet Engineered Implant: A novel cell therapy for enhancing osseointegration*

  Principle Investigator: Dr. Rajita Kodalie Kanuru
  School: University of California Los Angeles School of Dentistry

- *A Comparison of Active and Passive Motion Therapy in Radiation-Induced Trismus Patients*

  Principle Investigator: Dr. Richard C. Cardoso
  School: University of Texas MD Anderson Cancer Center (2011)

2010 Fellowship Awardees

- *Effects of Processing Conditions on Mechanical and Physical Properties of Y-TZP Zirconia Subjected to Low Temperature Degradation*

  Principal Investigator: Aws ArRajaie
  School: Boston University

- *Evaluation of Denture Plaque for the Presence of Pneumonia-Associated Pathogens in an Ambulatory Patient Population*

  Principal Investigator: Dr. Bethany Kronberg
  School: Loma Linda University (2010)

- *A Prospective Clinical Study of Fixed Four-Implant Supported Prostheses in Endentulous Maxilla: Treatment Efficacy and 12 Months Implant Survival Rate after Prosthesis Delivery*

  Principal Investigator: Dr. Oliver C. Pin-Harry
  School: University of North Carolina (2011)

- *Variables in the Etiology of Porcelain Veneer Fracture in All-Ceramic Single Unit Crowns*

  Principal Investigator: Dr. Thomas P. Suranyi
  School: University of North Carolina (2011)

- *Effect on Abutment Wall Modification on the Retention of Cement-Retained, Implant Supported Crowns*

  Principal Investigator: Dr. Kian Meng Tan
  School: University of Maryland, Baltimore (2010)

- *The Effect of Denture Cleansing Solutions on the Retention of Pink Locator Attachments after Multiple Pulls; an In Vitro Study*

  Principal Investigator: Dr. Wenguang K. You
  School: University of Maryland, Baltimore (2010)

2009 Fellowship Awardees

- *Low Temperature Degradation Effects on the Flexural Strength, Structure, and Hardness of Zirconia Based CAD/CAM Dental Restorations*

  Principal Investigator: Tariq Fadel Alghazzawi
  School: University of Alabama at Birmingham

- *Analysis of Saliva in Patients with Denture Stomatitis: An Exploratory Study*

  Principal Investigator: Dr. Sandra K. Al-Tarawneh
  School: University of North Carolina at Chapel Hill (2012)

- *In Vitro Microleakage of Dual-Cure Composite Core Materials*

  Principal Investigator: Dr. Jennifer L. Fritz
  School: University of Iowa, College of Dentistry (2009)

- *Neural Crest Contributions to Dental Pulp Stem Cells and Craniofacial Structures: Alveolar Process, Tongue and Temporomandibular Joint*

  Principal Investigator: Dr. Vinay Jain
  School: University of Tennessee Health Science Center (2010)

- *Dimensional Stability of Stereolithographic Surgical Guides on Exposure to Light, Temperature, Moisture and Autoclaving: A Pilot Study*

  Principal Investigator: Dr. Irfan S. Kachwala
  School: University of Medicine and Dentistry of New Jersey (2010)

- *The Effect of Angulation on the Retentive Values of Locator Attachments; An In Vitro Study*

  Principal Investigator: Dr. Richard A. Wilson
  School: University of Maryland, Baltimore (2010)

2008 Fellowship Awardees

- *A Crossover Study between Two Oral Appliances for the Treatment of Obstructive Sleep Apnea*

  Principal Investigator: Dr. Bradley M. Bishop
  School: University of Texas Health Science Center, San Antonio (2009)

- *Analysis of Post-Fatigue Reverse-Torque Values at the Abutment/Implant Interface for a Unitarian Implant Design*

  Principal Investigator: Dr. Paul M. Cashman
  School: University of Iowa (2009)

- *Relationship between Clinical Periodontal Biotype and Labial Plate Thickness; A Pilot Study*

  Principal Investigator: Ryan Cook
  School: University of Texas Health Science Center, San Antonio (2010)

- *Bonding Characteristics of Acrylic Denture Teeth to Denture Base Resins*

  Principal Investigator: Madelyn L. Fletcher-Stark
  School: University of Washington School of Dentistry (2009)

- *Inhibition of Candida Albicans Biofilm Formation on Denture Acrylic Resin Surfaces by Amine Oxide and Candida Albicans Interaction with Human Monocytes*

  Principal Investigator: Dr. Jonathan M. Hart
  School: University of Tennessee Health Sciences Center (2009)

- *Preliminary In Vivo Investigation of the Biodegradability of a Novel Elastomer Material for Bone Regeneration*

  Principal Investigator: Dr. Theodoros M. Kapos
  School: Harvard University School of Dental Medicine (2008)

- *Effect of Denture Cleansing Solutions on the Retention of Pink Locator Attachments, an In Vitro Study*

  Principal Investigator: Dr. Caroline Nguyen
  School: University of Maryland (2009)

- *Role of cp Titanium Surface Topography in Peri-Implant Osteoclastogenesis Rat Model*

  Principal Investigator: Dr. Ghadeer N. Thalji
  School: University of North Carolina School of Dentistry (2009)

2007 Fellowship Awardees

- *Proposal for a 1-Year Prospective Clinical Trial on the Implant Survival with Immediately-Loaded 2-Implant Locator Attachment Retained Mandibular Overdentures*

  Principal Investigator: Dr. Jmi Lilinoe Bassett Bassett
  School: University of Illinois at Chicago (2008)

- *A Comparative Study of the Accuracy of Plastic Impression Transfer Copings for Single Implant Restorations*

  Principal Investigator: Dr. Monica A. Fernandez
  School: Indiana University School of Dentistry (2009)

- *Effect of Attachment Number on Retention Characteristics in Overdentures*

  Principal Investigator: Dr. Chin-chuan Fu
  School: University of Alabama at Birmingham (2007)

- *Does Vitamin D Deficiency Contribute to Abnormal Synthesis of Cementlinelayer on Titanium Implant, and Thus Negatively Affect the Implant Osseoinegration?*

  Principal Investigator: Dr. James A. Kelly
  School: University of California, Los Angeles (2007)

- *Evaluation of Obstructive Sleep Apnea Patients' Oral Appliance Titration Protocols*

  Principal Investigator: Dr. Paul M. McLornan
  School: University of Texas Health Science Center, San Antonio (2007)

- *Enhancing Dental Implant Osseoinegration vie Non-Viral Gene Delivery*

  Principal Investigator: Tarek Sharkas
  School: University of Pittsburgh (2009)

- *Genetic Markers for Accelerated Bone Loss of Edentulous Jaws*

  Principal Investigator: Jaijam Suwanwela
  School: University of California Los Angeles, School of Dentistry (2009)

- *Molecular Analysis of Edentulous Oral Mucosa Formation in Type 2 Diabetes Mice – Preliminary Data*

  Principal Investigator: Dr. Seiichi Yamano
  School: Harvard University School of Dental Medicine (2007)

2006 Fellowship Awardees

- *Effect of Surface Modification of Denture Base Resins on the Adhesion of Candida Albicans*

  Principal Investigator: Ryan Bissett
  School: Harvard University School of Dental Medicine

- *A Comparative Study of Three-Implant Supported Fixed Dentures and Two-Implant Retained Overdentures in Edentulous Mandible: A Pilot Study of Treatment Efficacy and Patient Satisfaction*

  Principal Investigator: Dr. Kuang-Han Chang
  School: University of North Carolina School of Dentistry

- *The Effect of Primers and Surface Characteristics on the Adhesion of Silicone Elastomers to Polyurethane*

  Principal Investigator: Dr. Paul P. Chang
  School: University of Texas Health Science Center, San Antonio (2008)

- *The Change in Retentive Values of Locator Attachments and Hader Clips Over Multiple Pulls*

  Principal Investigator: Dr. Elizabetha Evtimovska
  School: University of Maryland, Baltimore (2007)

- *Molecular Analysis of Edentulous Oral Mucosa Formation in Type 2 Diabetes Mice*

  Principal Investigator: Dr. Seiichi Yamano
  School: Harvard University School of Dental Medicine (2007)

2005 Fellowship Awardees

- *Characteristics of Retention between Prefabricated and Custom Cast Attachments*

  Principal Investigator: Dr. Chin-chuan Fu
  School: University of Alabama at Birmingham (2007)

- *Comparison of Denture Base Adaptation Using Three Different Processing Techniques*

  Principal Investigator: Dr. Jin Ha Joung
  School: University of Connecticut Health Center (2006)

- *Do Collagen Gels Enhance Osteoblast Adhesion and Differentialation?*

  Principal Investigator: Matt Miller
  School: University of Iowa

- *Microbiota of the Edentulous*

  Principal Investigator: Dr. Amit Sachedo
  School: Harvard University (2007)

- *Effect of Cross-sectional Design on Fiber-reinforced Composite Fixed-detachable Denture Cantilever Failure*

  Principal Investigator: Kevin Scott
  School: University of Oregon Health Sciences Center