

# MATEUS GARCIA ROCHA, DDS, MSC, PHD

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College of Dentistry | University of Florida  
Gainesville, FL 32610

## EDUCATION

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<b>PhD</b>	in Dental Materials State University of Campinas, Piracicaba, SP, Brazil	2016 - 2019
<b>MSc</b>	in Dental Materials State University of Campinas, Piracicaba, SP, Brazil	2014 - 2016
<b>DDS</b>	Doctor of Dental Surgery Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil	2010 - 2013

## CERTIFICATION

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<b>Artificial Intelligence and Machine Learning</b>	University of California Berkeley, Berkely, CA, USA	2022
<b>Dental Implants</b>	State University of Rio de Janeiro, Rio de Janeiro, RJ	2013 - 2014

## CURRENT POSITION

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<b>Director of the Center for Dental Biomaterials</b>	Center for Dental Biomaterials University of Florida, Gainesville, FL	2021-present
<b>Clinical Assistant Professor</b>	Division of Operative Dentistry, Department of Restorative Dental Sciences College of Dentistry, University of Florida, Gainesville, FL	2019-present
<b>Faculty Practice</b>	Academic Enrichment Fund College of Dentistry, University of Florida, Gainesville, FL	2019-present

## RESEARCH EXPERIENCE

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<b>Junior Researcher (<i>Assistant Professor</i>)</b>	College of Dentistry, University of Florida, Gainesville, FL	2019 - present
• Principal Investigator		

**Visiting Researcher** 2018 - 2019  
College of Dentistry, University of Florida, Gainesville, FL  
Advisor: Jean-Francois Roulet

- Project: “Development and characterization of bulk fill composites light cured using silver nanoparticles surface plasmon resonance as a photoinitiator system.”

**PhD Student** 2016 to 2019  
Piracicaba Dental School, State University of Campinas, Piracicaba, SP, Brazil  
Advisor: Americo Bortolazzo Correr

- Project: “Physicochemical properties and wear resistance of commercial and experimental bulk fill dental composites based on elastomeric monomer.”

**Visiting Scholar** 2015  
College of Dentistry, Oregon Health and Science University, Portland, OR  
Advisor: Jack Liborio Ferracane  
Project: “Mapping conversion of dental composites using Fourier transformed infrared spectroscopy”

**Master Student** 2014 to 2016  
Piracicaba Dental School, State University of Campinas, Piracicaba, SP, Brazil  
Advisor: Americo Bortolazzo Correr

- Project: “LED beam profile influence on the degree of conversion of bulkfill composites”

**Research Assistant** 2012 to 2013  
National Institute of Metrology, Quality and Technology, Xerem, RJ, Brazil  
Advisor: Jose Carlos Netto-Ferreira

- Project: “Use of surface plasmon resonance energy of metal nanoparticles as a catalyst for chemical reactions”

**Research Assistant** 2012  
Institute of Chemistry, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil  
Advisor: Nanci Garden

- Project: “Fluorescence of Natural Teeth and Resin-based materials”

**Research Assistant** 2011 to 2012  
School of Dentistry, Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil  
Advisor: Ivo Carlos Correa  
Project: “Development of dental materials using alternative photoinitiators”

## **RESEARCH GRANTS**

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**University of Florida Start-up Fund (00129566)** 2019 - 2022  
Development of dental resin-based materials with “smart” capabilities using metal nanoparticles surface plasmon resonance associated with quantum computing and programming using binary language.

PI: Mateus Rocha  
Budget: \$ 49,400.00

**Ivoclar North America Inc (P0163924)** 2020 - 2021  
Mechanical properties and wear resistance of new resin-based composite (Tetric Prime)  
PI: Jean-Francois Roulet; Co-PI: Mateus Rocha ; Co-PI: Dayane Oliveira  
Budget: \$ 18,000.00

**Komet Gebr. Brasseler GmbH & Co. KG (AGR00017497)** 2020 - 2021  
Fatigue and wear behavior of two zirconium oxide ceramics manufactured with a new  
production process.  
PI: Jean-Francois Roulet; Co-PI: Mateus Rocha  
Budget: \$ 48,704.00

**São Paulo Research Foundation (FAPESP) #2017/22195-9** 2018 - 2019  
Development and characterization of bulk fill composites light cured using silver  
nanoparticles surface plasmon resonance as a photoinitiator system.  
PI: Mateus Rocha ; Mentor: Americo Bortolazzo Correr  
Budget: \$ 26,680.00

**São Paulo Research Foundation (FAPESP) #2016/06019-3** 2016 - 2019  
Physicochemical properties and wear resistance of commercial and experimental bulk fill  
dental composites based on elastomeric monomer.  
PI: Mateus Rocha ; Mentor: Americo Bortolazzo Correr  
Budget: R\$ 105,125.28

## **HONORS AND AWARDS**

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**Teacher of the Year – Basic & Behavioral Sciences** 2021  
College of Dentistry elected as the most outstanding educator in Basic & Behavioral  
Sciences by the DMD students. University of Florida, Gainesville, FL.

**Certificate of Appreciation** 2019  
In recognition of valuable contributions to the Division of operative Dentistry as a Research  
Scholar. Department of Restorative Dentistry, College of Dentistry, University of Florida,  
Gainesville, FL.

**Myaki Issao Award** 2018  
International Association for Dental Research Meeting, Brazilian Division, Campinas, SP,  
Brazil. Poster: “Effect of combining photoinitiators on the curing efficiency of dental  
composites”

**3<sup>rd</sup> Place Paffenbarger Award** 2017  
Academy of Dental Materials, Nuremberg, Germany. Poster: “From Blue to Red: a new way  
to photoactivate dental resin materials”

- Brazil-Japan Joint Research Award** 2017  
Brazil-Japan Joint Research Workshop on Adhesive Dentistry. Piracicaba Dental School, State University of Campinas, Piracicaba, SP, Brazil. Poster: “Are Amine-free Luting Cements Worth to Bond Glass-ceramic Veneers?”
- 1<sup>st</sup> Place in Research Poster Presentation** 2016  
Piracicaba Dental School, State University of Campinas, Piracicaba, SP, Brazil. Poster: “Effect of TPO and CQ-amine synergism on curing profile of resin-based composites”
- Honorable Mention IADR – Brazilian Division** 2016  
International Association for Dental Research Meeting, Brazilian Division, Campinas, SP, Brazil. Poster: “Synergism of CQ and TPO on the curing profile and color of resin-based composites”
- 1<sup>st</sup> Place in Research Poster Presentation** 2016  
Academic Dentistry Meeting, Federal Fluminense University, Niteroi, RJ, Brazil. Poster: “Use of different photoinitiator systems on the degree of conversion of dental composites”
- Finalist Paffenbarger Award** 2015  
Academy of Dental Materials, Maui, HI. Poster: “Synergism of CQ-amine and TPO in experimental resin composites”
- Myaki Issao Award** 2013  
International Association for Dental Research Meeting, Brazilian Division, Aguas de Lindoia, SP, Brazil. Poster: “Digital analysis of the range and homogeneity of the LED light beam using different fiber optic tips”
- Giulio Massarani Award** 2012  
Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil. Presentation: “Effect of light tip and protective barrier on the light output of different curing lights”
- 1<sup>st</sup> Place in Research Oral Presentation** 2012  
XXII Academic Dentistry Meeting Research Competition of Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil. Presentation: “Photopolymerization of dental composites using different light tips”
- 1<sup>st</sup> Place in Research Oral Presentation** 2011  
XXII Academic Dentistry Meeting Research Competition of Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil. Presentation: “Evaluation of Fluorescence in Dental Composites”

## **PUBLICATIONS**

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### ***Book Chapters (4)***

1. Oliveira D, **Rocha MG**. (2022) Dental light-curing – Assessing the blue light hazard. *Dental Biomaterials*. Dental Clinics of North America. Elsevier, 2022 (in press)
2. Oliveira DCRS, **Rocha MG**. (2021). *Color Science*. Color Science and Shade Selection in Operative Dentistry. Springer, 2021
3. Oliveira DCRS, Salgado V, **Rocha MG**, Schneider LFJ. (2021). *Imperceptíveis, Restaurações Diretas Anteriores*. Fotoativação de materiais resinosos. Napoleão. Rio de Janeiro, Brazil.
4. Oliveira DCRS, **Rocha MG**, Sousa-Junior EJ, Price RBT. (2016). Photoactivation of resin materials. Details: Dental Laminated Ceramics, Editora Plena, 2016.

***Peer-reviewed Journal Publications (21)***

1. Nobre CFA, Feitosa VP, Fronza, BM, Leal AMC, **Rocha MG**, Roulet, JF, Sinhoreti MAC. (2022). Physicochemical properties of experimental resin-based composites using tris(trimethylsilyl)silane associated with diphenyl iodonium hexafluorophosphate (DPIHP) salt. *Journal of the Mechanical Behavior of Biomedical Materials*, 130, 105169. doi: 10.1016/j.jmbbm.2022.105169
2. **Rocha MG**, Oliveira D, de Menezes LR, Roulet JF, Sinhoreti MAC, Correr AB. (2022). The use of an elastomeric methacrylate monomer (Exothane 24) to reduce the polymerization shrinkage stress and improve the two-body wear resistance of bulk fill composites. *Dental Materials*, **38**(2): e43-e57. doi:10.1016/j.dental.2021.12.017
3. **Rocha MG**, Oliveira D, Felix C, Roulet JF, Sinhoreti MAC, Correr AB. (2021). Beam Profiling of Dental Light Curing Units Using Different Camera-Based Systems. *European Journal of Dentistry*, Aug 2021. doi:10.1055/s-0041-1731628
4. Lalama M, **Rocha MG**, Neill EO, Zoidis P. (2021). Polyetheretherketone (PEEK) Post and Core Restorations: A 3D Accuracy Analysis between Heat-Pressed and CAD-CAM Fabrication Methods. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. Doi: 10.1111/jopr.13452. Advance online publication.
5. Roulet JF, Schepker, KL, Truco A., Schwarz, HC, **Rocha, MG**. (2021). Biaxial flexural strength, crystalline structure, and grain size of new commercially available zirconia-based ceramics for dental appliances produced using a new slip-casting method. *Journal of the Mechanical Behavior of Biomedical Materials*, 114, 104180. doi:10.1016/j.jmbbm.2020.104180
6. Lara L, **Rocha MG**, Menezes LR, Correr AB, Sinhoreti MAC, Oliveira D. (2021). Effect of combining photoinitiators on cure efficiency of dental resin-based composites. *Journal of Applied Oral Sciences*, 29, e20200467. doi:10.1590/1678-7757-2020-0467

7. **Rocha MG**, Roulet J-F, Sinhoreti MAC, Correr AB, Oliveira D. (2021). Light Transmittance and Depth of Cure of a Bulk Fill Composite Based on the Exposure Reciprocity Law. *Brazilian Dental Journal*, 32:78-84. doi: 10.1590/0103-6440202103842
8. Mohan S, Roulet JF, Abdulhameed N, **Rocha MG**. (2021). Transferring Occlusal Anatomy from Worn Temporary Crowns to Zirconium Oxide Crowns. *Eur J Prosthodont Restor Dent*, 29(2), 67-75. doi:10.1922/EJPRD\_2045Roulet09
9. Favarão J, Oliveira D, Zanini MM, **Rocha MG**, Correr-Sobrinho L, Sinhoreti MAC. (2021). Effect of curing-light attenuation on color stability and physical and chemical properties of resin cements containing different photoinitiators. *Journal of the Mechanical Behavior of Biomedical Materials*, 113, 104110. doi: 10.1016/j.jmbbm.2020.104110
10. Alqahtani AR, Gufran K, Silva F, **Rocha MG**, Chang J. (2021). A Clinical Case Report of a Potential Acute Allergic Reaction with Titanium Dental Implant. *Case Reports in Dentistry*, 2021, 5592934. doi:10.1155/2021/5592934
11. **Rocha MG**, Oliveira DCRS, Sinhoreti MAC, Roulet JF, Correr AB. (2019). The Combination of CQ-amine and TPO Increases the Polymerization Shrinkage Stress and Does Not Improve the Depth of Cure of Bulk-fill Composites. *Operative Dentistry*, 44(5), 499-509. doi:10.2341/18-234-L
12. Oliveira DCRS, **Rocha MG**, Correr AB, Ferracane JL, Sinhoreti MAC. (2019). Effect of Beam Profiles From Different Light Emission Tip Types of Multiwave Light-emitting Diodes on the Curing Profile of Resin-based Composites. *Operative Dentistry*, 44(4), 365-378. doi:10.2341/16-242
13. Favarao J, Oliveira DCRS, **Rocha MG**, Zanini MM, Abuna GF, Mendonca MJ, Sinhoreti MAC. (2019). Solvent Degradation and Polymerization Shrinkage Reduction of Resin Composites Using Isobornyl Methacrylate. *Brazilian Dental Journal*, 30(3), 272-278. doi:10.1590/0103-6440201802525
14. Sinhoreti MAC, Oliveira DCRS, **Rocha MG**, Roulet JF. (2018). Light-curing of resin-based restorative materials: an evidence-based approach to clinical practice application. *Journal of Clinical Dentistry and Research*, 15(1), 44-53. doi: 10.14436/2447-911x.15.1.044-053.oar
15. Oliveira DCRS, **Rocha MG**, Roulet JF (2018). Light curing matters: Facts often overseen by dentists. *Stomatology Edu Journal*, 5(4), 236-242. doi:10.25241/stomaeduj.2018.5(2).art.1
16. Roulet JF, **Rocha MG**, Shen C, Khudhair MM, Oliveira DCRS (2018). Beam Profile Characterization of a Dental Light Curing Unit Using a Spectrometer-Based Method. *Stomatology Edu Journal*, 5(2), 84-91. doi:10.25241/stomaeduj.2018.5(2).art.1
17. **Rocha MG**, Oliveira DCRS, Correa IC, Correr-Sobrinho L, Sinhoreti MAC, Ferracane JL, Correr, AB (2017). Light-emitting Diode Beam Profile and Spectral Output Influence on the

Degree of Conversion of Bulk Fill Composites. *Operative Dentistry*, 42(4), 418-427. doi:10.2341/16-164-L

18. Oliveira DCRS, **Rocha MG**, Souza-Júnior EJ, Rocha-Maia R, Puppim-Rontani RM, Sinhoreti MAC. (2016). The effect of shade and curing mode on cure efficiency of dual-cure resin cements. *Brazilian Dental Science*, 19(3), 59-64. doi:10.14295/bds.2016.v19i3.1265
19. Oliveira DCRS, **Rocha MG**, Correa IC, Correr AB, Ferracane JL, Sinhoreti MAC. (2016). The effect of combining photoinitiator systems on the color and curing profile of resin-based composites. *Dental Materials*, 32(10), 1209-1217. doi:10.1016/j.dental.2016.06.010
20. Oliveira DCRS, **Rocha MG**, Gatti A, Correr AB, Ferracane JL, Sinhoret MAC (2015). Effect of different photoinitiators and reducing agents on cure efficiency and color stability of resin-based composites using different LED wavelengths. *Journal of Dentistry*, 43(12), 1565-1572. doi:10.1016/j.jdent.2015.08.015
21. Oliveira DCRS, Ayres AP, **Rocha MG**, Giannini M, Puppim-Rontani RM, Ferracane JL, Sinhoreti MAC (2015). Effect of Different In Vitro Aging Methods on Color Stability of a Dental Resin-Based Composite Using CIELAB and CIEDE2000 Color-Difference Formulas. *Journal of Esthetic and Restorative Dentistry*, 27(5), 322-330. doi:10.1111/jerd.12155

#### ***Journal Papers Accepted (1)***

1. Lara L, **Rocha MG**, Menezes LR, Correr AB, Sinhoreti MAC, Oliveira D. (2021). Mechanical Properties of bulk fill restorations with or without a final layer of conventional composite. *General Dentistry*.

#### ***Journal Papers in Review (2)***

1. Kose C, Oliveira D, Roulet JF, Pereira P, **Rocha MG**. (2021). Development of an algorithm to predict the final color of leucite-reinforced ceramic veneer restorations. DENTMA-D-21-00255
2. **Rocha MG**, Maucoski C, Roulet JF, Price RB. (2022). Depth of cure of resin-based composites light-activated using a laser diode, multi-peak, and single-peak light-emitting diode curing lights. JJOD-S-22-00384

#### ***Editorials (7)***

1. Veras T, Tabata L, **Rocha MG**, Oliveira D. (2020). Coluna fique por dentro: especial entrevistas. *Full Dentistry in Science*, 11(44), 15-16. doi:10.24077/2020
2. Oliveira D, **Rocha MG**, Tabata L. (2020). Pronunciamento Especial: COVID-19 e a Prática Odontológica. *Full Dentistry in Science*, 11(43), 8. doi:10.24077/2020

3. Rizzati-Barbosa C, Albergaria-Barbosa R, Tabata L, **Rocha MG**, Oliveira D. (2019). Especial entrevistas. Full Dentistry in Science, 11(41), 8-9. doi:10.24077/2019
4. Felix C, Tabata L, **Rocha MG**, Oliveira D. (2019). Especial entrevistas – Chris Felix. Full Dentistry in Science, 10(40), 10-11.
5. Giannini M, Oliveira D, **Rocha MG**, Price R. (2018). Northern Lights 2018: consensus statements. Journal of Clinical Dentistry and Research, 16(3), 222-225.
6. **Rocha MG**, Oliveira D (2017). Cerâmicas policristalinas de zircônia de alta translucidez contendo fase cúbica. Full Dentistry in Science, 10(33), 9-10.
7. Oliveira D, **Rocha MG**. (2016). Dental Curing Lights and its Health Risks: Is there any Solution. J Dent Oral Disord Ther, 4(1), 1-2.

## **PATENTS**

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1. Oliveira DCRS, Silvino AC, **Rocha MG**, Sinhoreti MAC, Correr AB. (2019). Coordination complex for light curing, photoinitiator systems and its use. Patent No. [BR102017016372A2](#)
2. **Rocha MG**, Oliveira DCRS, Correr AB, Sinhoreti MAC. (2016). Dental bulk-fill composite and use thereof. Patent No. [WO2017181252A1](#)
3. Favarao J, Mendonca MJ, Flores GA, Zanini MM, **Rocha MG**, Oliveira DCRS, Sinhoreti MAC. (2016). Low-shrinkage light-cured resin composite and its use. Patent No. [BR102016020042A2](#)
4. Oliveira DCRS, **Rocha MG**, Sinhoreti MAC, Correr AB, Correa IC. (2015). Photopolymerisable resin composite and use thereof. Patent No. [WO2017011886A1](#)
5. Oliveira DCRS, **Rocha MG**, Sinhoreti MAC, Correr AB, Cangiani MB. Multifunction dental light emitting device. (2016). Patent No. [BR202016016366U2](#)
6. Netto-Ferreira JC, Correa IC, **Rocha MG**, Correr AB. (2015). Resin-based material light-cured by surface plasmon resonance of metal nanoparticles for odontologic use, restorative material and dental adhesives. Patent No. [BR102015020032A2](#)

## **ABSTRACTS**

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1. **Rocha MG**, Roulet JF. (2021). Wear Resistance of Two Bulkfill Composites. 2021 IADR/AADR/CADR General Session (Virtual Experience). [[Abstract](#)]
2. Kose C, Oliveira D, Roulet JF, Pereira P, **Rocha MG**. (2021). Algorithm to Predict the Final Color of Leucite-Reinforced Ceramic Restorations. Academy of Dental Materials, Virtual Meeting, 38, e65. [[Abstract](#)]



3. Gummadi S, Roulet JF, **Rocha MG**. (2021). A New 3D Volume-Based Method for Assessing Composites Curing Depth. Academy of Dental Materials, Virtual Meeting, 38, e18-e19. [[Abstract](#)]
4. Amini S, Pereira P, Roulet JF, Oliveira D, **Rocha MG**. (2021). Degree of Conversion of Resin-Based Luting Materials Containing Alternative Photoinitiators. Academy of Dental Materials, Virtual Meeting, 38, e2-e3. [[Abstract](#)]
5. Roulet JF, Schwarz CH, Pontes S, **Rocha MG**. (2021). Wear resistance of leucite-reinforced ceramics against 3Y-TZP and ATZ ceramics manufactured using a new slip-casting process without HIP. International College of Prosthodontists, Virtual Meeting. [[Abstract](#)]
6. Oliveira DCRS, **Rocha MG**, Silvino AC, Sinhoreti MAC, Roulet JF, Holliday L, Ribeiro APD. Short and Long-wavelengths Effects on Cell Metabolism During Restorative Procedures (2020). IADR/AADR/CADR General Session. Washington, D.C., USA. [[Abstract](#)]
7. Monish N, Oliveira DCRS, **Rocha MG**, Roulet JF. Pulp-chamber temperature after irradiation with 11 light-curing units: in-vitro study. (2020). IADR/AADR/CADR General Session. Washington, D.C., USA. [[Abstract](#)]
8. **Rocha MG**, Oliveira DCRS, Roulet JF, Ribeiro, APD, Tabata L, Pereira P. (2019). Light Propagation Through a Bulk-fill Composite in MOD Class II Restorations. IADR/AADR/CADR General Session. Vancouver, BC, Canada. [[Abstract](#)]
9. Roulet JF, Schepker K, Truco A, **Rocha MG**. (2019). Crystalline Structure and Grain Size of an Experimental Zirconium-Oxide-Ceramic. IADR/AADR/CADR General Session. Vancouver, BC, Canada. [[Abstract](#)]
10. Ribeiro APD, **Rocha MG**, Tabata L, Geraldelli S, Roulet JF, Oliveira DCRS. (2019). Intrapulpal Temperature Evaluation During Direct Pulp Capping Procedures. IADR/AADR/CADR General Session. Vancouver, BC, Canada. [[Abstract](#)]
11. Oliveira DCRS, **Rocha MG**, Correr AB, Sinhoreti MAC, Roulet JF, Geraldelli S. (2019). Effect of Light-activation of Protective Liners on Rising Pulp Temperature. IADR/AADR/CADR General Session. Vancouver, BC, Canada. [[Abstract](#)]
12. Wang F, **Rocha MG**, Oliveira DCRS, Sinhoreti MAC, Roulet JF. (2019). Light Beam Profile Influence on Composite Bond Strength. IADR/AADR/CADR General Session. Vancouver, BC, Canada. [[Abstract](#)]
13. **Rocha MG**, Roulet JF, Oliveira DCRS, Sinhoreti MAC, Correr AB. (2019). Bulk-fill composites based on an elastomeric methacrylate monomer. Academy of Dental Materials, Jackson Hole, WY, USA, 35, e34-e35. [[Abstract](#)]

14. Roulet JF, **Rocha MG**. (2019). Strength of a zirconium oxide ceramic produced with an alternative production process. International College of Prosthodontists, Amsterdam, Netherlands. [[Abstract](#)]
15. Lalama M, **Rocha MG**, O'neil E, Zoidis P. (2019). 3D accuracy analysis between heat-pressed and cad-cam polyetheretherketone (PEEK) post and core restorations. International College of Prosthodontists, Amsterdam, Netherlands. [[Abstract](#)]
16. Lalama M, **Rocha MG**, O'neil E, Zoidis P. (2019). 3D accuracy analysis between heat-pressed and cad-cam polyetheretherketone (PEEK) post and core restorations. Poster Session at the 49th Annual Session of the American College of Prosthodontists. [[Abstract](#)]
17. Oliveira DCRS, **Rocha MG**, Silvino AC, Correr AB, Sinhoreti MAC, Roulet JF. (2018). From Blue to Red: Dental Composites Light-cured by Long Wavelengths. IADR/PER General Session, London, England. [[Abstract](#)]
18. **Rocha MG**, Oliveira DCRS, Felix C, Sinhoreti MAC, Roulet JF, Correr AB. (2018). Beam Profile of Dental Light Curing Units Using Low-Budget Cameras. IADR/PER General Session, London, England. [[Abstract](#)]
19. Sinhoreti MAC, Oliveira R, Oliveira DCRS, **Rocha MG**, Roulet JF, Geraldeli S. (2018). Mechanical, Chemical and Bond Strength Properties of Bisphenol-A Free Composites. AADR/CADR Annual Meeting, Fort Lauderdale, FL, USA. [[Abstract](#)]
20. Correr AB, Vercellino M, **Rocha MG**, Correr-Sobrinho L. (2018). Bond strength and internal adaptation of experimental bulkfill composites. AADR/CADR Annual Meeting, Fort Lauderdale, FL, USA. [[Abstract](#)]
21. Mohan S, Roulet JF, Abdulhameed N, **Rocha MG**, O'Neill E. (2018). Reproducing the occlusal anatomy of temporary crowns in zirconium oxide crowns. Academy of Dental Materials, Porto de Galinhas, PE, Brazil, 34, e99-e100. [[Abstract](#)]
22. Sinhoreti MAC, Oliveira RF, Oliveira DCRS, **Rocha MG**, Roulet JF, Geraldeli S. (2018). Mechanical, chemical and bond strength properties of bisphenol-A free composites. Academy of Dental Materials, Porto de Galinhas, PE, Brazil, 34, e111-e112. [[Abstract](#)]
23. **Rocha MG**, Oliveira DCRS, Sinhoreti MAC, Correr AB. (2017). Effect of synergism of CQ-amine and TPO on physical-chemical properties of experimental bulk-fill. Academy of Dental Materials, Nuremberg, Germany, 33, e68. [[Abstract](#)]
24. Oliveira DCRS, **Rocha MG**, Correr AB, Silvino AC, Sinhoreti MAC. (2017). From blue to red: New photoinitiator systems for dental materials. Academy of Dental Materials, Nuremberg, Germany, 33, e88-e89. [[Abstract](#)]

25. Correr AB, **Rocha MG**, Oliveira DCRS, Ferracane JL, Sinhoreti MAC, Correr-Sobrinho L. Influence of Leds Beam Profile on Cure of Bulkfill Composites (2016). AADR/CADR Annual Meeting, Los Angeles, CA, USA. [[Abstract](#)]
26. Correa IC, **Rocha MG**, Rueggeberg FA, Tavares MIB. (2016). Bulkfill/Layered Composite Depths ff Cure Evaluated by Solvent Resistance. AADR/CADR Annual Meeting, Los Angeles, CA, USA. [[Abstract](#)]
27. Correa IC, Rueggeberg FA, Tavares MIB, **Rocha MG**. (2015). Solvent resistance: An alternative method for composite depth of cure. Academy of Dental Materials, Maui, HI, USA 31, e56-e57. [[Abstract](#)]
28. **Rocha MG**, Oliveira DCRS, Correa IC, Ferracane JL, Sinhoreti MAC, Correr AB. (2015). Synergism of CQ-amine and TPO in experimental resin composites. Academy of Dental Materials, Maui, HI, USA, 31, e64-e65. [[Abstract](#)]
29. Oliveira DCRS, **Rocha MG**, Correa IC, Correr AB, Ferracane JL, Sinhoreti MAC. (2015). Curing profiles of CQ- and TPO-based composites using polywave LEDs. Academy of Dental Materials, Maui, HI, USA, 31, e63. [[Abstract](#)]
30. Correa IC, Rueggeberg FA, **Rocha MG**, Schmitt C, Neumann M. (2013). Effects of the Violet and Blue Spectrum on Resins Conversion. IADR/AADR/CADR General Session, Seattle, WA, USA. [[Abstract](#)]

## **PRESENTATIONS AND INVITED LECTURES**

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### **Keynote Presentations**

1. “Dental Biomaterials: an overview of current biomaterials used to improve oral health”. (Virtual Session). Society for Biomaterials, Gainesville, FL. March 17<sup>th</sup>, 2022
2. “The use of Artificial Intelligence toward the future of dentistry”. (Virtual Session). Institute of Learning at Retirement, Gainesville, FL. October 26<sup>th</sup>, 2021
3. “The GPS (Graduation, Post-Graduation and Success) of the academic career: where would you like to get?” (Virtual Session) Uberaba University, Uberaba, MG, Brazil. November 18<sup>th</sup>, 2020
4. “The challenges in dental biomaterials research.” (Virtual Session) Federal University of Rio de Janeiro, Rio de Janeiro, RJ, Brazil. October 8<sup>th</sup>, 2020
5. “Photoinitiators in dentistry: Challenges in dental adhesives,” University of Iowa Master’s in Operative Dentistry, Iowa City, IA, USA. December 4<sup>th</sup>, 2018.

## TEACHING EXPERIENCE

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**University of Florida**, College of Dentistry  
**Clinical Assistant Professor**, Department of Restorative Dental Sciences

2019-present

### ➤ *DMD Education*

#### 1. Dental Biomaterials

Clinical Use of Dental Materials (DEN 7717C) – 2019-present

- **Course Director**
- Lecturer:
  - *L1 – Fundamentals of Dental Biomaterials;*
  - *L2 – Mechanical Properties of Dental Materials;*
  - *L3 – A review in Contemporary Impression Materials;*
  - *L4 – Updates in Dental Adhesive Systems*

Clinical Selection of Dental Materials (DEN8719C) – 2019-present

- **Assistant Course Director**
- Lecturer:
  - *L2- Overview of the Physical and Chemical Properties of Solids;*
  - *L3- Biomechanics applied to Restorative Dentistry;*
  - *L4- Dental Amalgam;*
  - *L5 – Clinical Consideration of Dental Adhesives;*
  - *L6 – Dental Cements used for Bases and Restorationa;*
  - *L9 – Impression and Model Materials;*
  - *L10 – Dental Metal Alloys;*
  - *L11 – Polymers for Prosthodontics;*
  - *L12 – Guideline for the INBDE Board Exam.*

#### 2. Operative Dentistry

Dental Anatomy and Stomatognathic (DEN 5404C - 2 credits) – 2019-present

- Course Instructor (Pre-clinical instruction and Psychomotor grading)

Cariology (DEN5502C – 2 Credits) – 2019- present

- Course Instructor (Clinical instruction)

Preclinical Operative Dentistry I (DEN 5405C – 4 credits) – 2019-present

- Course Instructor (Pre-clinical instruction and Psychomotor grading)
- Lecturer (*1 - Overview of Dental Biomaterials, Structure of Matter and Principles of Adhesion; 2 - Dental Adhesive Systems; 3 - Mechanical Properties of Dental Biomaterials; 4 - Non-Carious Cervical Lesion and Dentin Hypersensitivity*)
- Simulation Lab Coordinator (*for the Bonding Lab*)

Preclinical Operative Dentistry II (DEN 6407C – 3 credits) – 2019-present

- Course Instructor (Pre-clinical instruction and Psychomotor grading)
- Lecturer (*1 - Amalgam as a Restorative Dental Materials ; 2 - Dental Cements for Pulp Protection*)

Preclinical Operative Dentistry III (DEN 6408C – 3 credits) – 2019-present

- Course Instructor (Pre-clinical instruction and Psychomotor grading)

Clinical Operative Dentistry 1 (DEN 7744L – 2 credits) – 2019-present

- Clinical Instructor (Responsible for clinical teaching of Operative Dentistry)

Clinical Operative Dentistry 2 (DEN 7745L – 3 credits) – 2019-present

- Clinical Instructor (Responsible for clinical teaching of Operative Dentistry)

Clinical Operative Dentistry 3 (DEN 7746L – 3 credits) – 2019-present

- Clinical Instructor (Responsible for clinical teaching of Operative Dentistry)

Clinical Operative Dentistry 4 (DEN 8747L – 3 credits) – 2019-present

- Clinical Instructor (Responsible for clinical teaching of Operative Dentistry)

Clinical Operative Dentistry 5 (DEN 8748L – 3 credits) – 2019-present

- Clinical Instructor (Responsible for clinical teaching of Operative Dentistry)

Clinical Operative Dentistry 6 (DEN 8749L – 3 credits) – 2019-present

- Clinical Instructor (Responsible for clinical teaching of Operative Dentistry)

### **3. Prosthodontics**

Fundamentals of Occlusion (DEN 6213C – 3 credits) – 2019-present

- Lecturer (*1- Impression Materials and Casting: Alginate and Dental Stones*)

Pre-clinical Fixed Pros I (DEN6412C) – 2019-present

- Lecturer (*Gold-based Alloys; Metal-Ceramic Prosthesis*)

Pre-clinical Fixed Pros II (DEN6415) – 2019-present

- Lecturer (*Framework design and Joining of Dental Alloys*)

Removal Partial Prosthodontics (DEN7413) – 2019-present

- Lecturer (*Materials for RPDs: Dental Alloys and Acrylic Resin*)

Digital Systems in Clinical Dentistry Elective (DEN8290) – 2019-present

- Course Instructor (Literature Review and Hands On - *3M True Definition*)
- Course Instructor (Literature Review and Hands On – *E4D Planmeca*)

### **4. General Dentistry**

Introduction to Clinical Diagnosis & Treatment Planning (DEN 6302) – 2019-present

- Lecturer (*Impressions and Diagnostic Casting; Restorative Considerations in Treatment Planning*)

## 5. Elective Courses

Discussion of Research Interests Elective (DEN8290R) – 2019-present

- Lecturer (*1- Development of Restorative Smart Materials; 2 – Artificial Intelligence in Dentistry*)

### ➤ *Graduate and Advanced Education*

#### 1. Operative Dentistry

Supervised Research (DEN6910) Operative and Esthetic Dentistry

Dental Biomaterials Operative

Research Bootcamp Operative.

#### 2. Prosthodontics

DEN 6935 Dental Materials Graduate Prosthodontics

### ➤ *Continuing Education*

## STUDENTS MENTORING

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### Masters Students

Neimar Sartori, “Polymers for 3D printing in Prosthodontics”, In progress

Carlos Kose Jr., Master’s and Certificate in Operative and Esthetic Dentistry, University of Florida College of Dentistry, Gainesville, FL. “Development of an Algorithm to Predict the Final Color of Leucite-Based Cad/Cam Ceramic Veneer Restorations”, 05/04/2021

Snigdha Gummadi, Master’s and Certificate in Operative and Esthetic Dentistry, University of Florida College of Dentistry, Gainesville, FL. “3D Analysis of Depth of Cure of Bulkfill and Conventional Composites Using Different Mold Diameters”, 05/04/2021

### Interns and Residents

Sara Amini, “Use of monowave and polywave curing light for dental ceramics cementation”, Date Graduated

### Undergraduate Students Advised

1. Dana Furman, Bachelor of Science in Business Administration, May 2023
2. Andie Kim, Bachelor of Science in Biology, May 2023

3. Kamini Kabilan, Bachelor of Science in Biochemistry, May 2022. (*USP Scholarship*)
4. Nicholas Cassera, Bachelor of Science in Biochemistry, May 2021.
5. Stephanie Ferrer, Bachelor of Health Science, May 2021.

## **THESIS COMMITTEES**

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### **Masters Operative and Esthetic Dentistry**

Yasser Merdad (Member), “Light Transmittance through Dental Ceramics”, In Progress

Carlos Kose Jr. (Chair), “3D Analysis of Depth of Cure of Bulkfill and Conventional Composites Using Different Mold Diameters”, 05/04/2021

Snigdha Gummadi (Co-Chair), “3D Analysis of Depth of Cure of Bulkfill and Conventional Composites Using Different Mold Diameters”, 05/04/2021

### **Masters Prosthodontics**

Neimar Sartori (Chair), “Polymers for 3D printing in Prosthodontics”, In Progress

Alexandra Davilla (Co-Chair). “TBD”, In Progress

### **Masters Endodontics**

Ricardo Obando (Co-Chair), “Bioceramic Liners”, In Progress

Shahd Nawari (Co-Chair), “Mechanical Properties of Bioactive Endodontic Materials”, In Progress

### **Masters Periodontology**

Carlos de Bruzos (Member), “TBD”, In Progress

### **Masters Orthodontics**

Samantha Montoya (Member), “TBD”, In Progress

### **Doctorate in Polymer Sciences**

Raquel Mota (Member), “Obtaining polymeric frameworks with silver nanoparticles and titanium oxide by 3D printing for bone tissue regeneration.”, 01/14/2022

## **FACULTY SEARCH COMMITTEES**

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### **Assistant/Associate Professor in Artificial Intelligence (2022)**

Position #519621. College of Dentistry, University of Florida, Gainesville, FL.

### **Assistant/Associate Professor in Artificial Intelligence at the UF HSC (2022)**

Position #84886. College of Medicine, University of Florida, Gainesville, FL.

**Clinical Assistant/Associate Professor in Prosthodontics (2021)**

Position # 00011143. Division of Prosthodontics, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

**Clinical Assistant/Associate Professor in Prosthodontics (2021)**

Position #519002. Division of Prosthodontics, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

**Assistant/Associate Professor in Artificial Intelligence (2021)**

Position #70950. College of Dentistry, University of Florida, Gainesville, FL.

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**UNDERGRADUATE, MASTER’S AND PHD SEARCH COMMITTEES**

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**Federal Work-Study – Center for Dental Biomaterials (2021)**

Committee Chair, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

**Master’s and Certificate in Prosthodontics (2021)**

Committee Member, Graduate Prosthodontics Program, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

**Undergraduate Research Program – Center for Dental Biomaterials (2021)**

Committee Chair, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

**Master’s and Certificate in Operative and Esthetic Dentistry (2020)**

Committee Member, Graduate Operative Dentistry Program, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

**Master’s and Certificate in Operative and Esthetic Dentistry (2019)**

Committee Member, Graduate Operative Dentistry Program, Department of Restorative Dental Sciences, College of Dentistry, University of Florida, Gainesville, FL.

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**SERVICE COMMITTEES**

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**AADOCR Constitution Committee**

**2022 - 2025**

Appointed by AADOCR Board Operations Committee  
American Association for Dental, Oral and Craniofacial Research  
Alexandria, VA

**Research Committee**

**2020 - 2023**

Elected Member by Faculty Assembly



Office of Research – College of Dentistry  
University of Florida

**Information Technology Steering Committee**

**2020 - 2023**

Elected Member by Faculty Assembly  
Dean's Office – College of Dentistry  
University of Florida

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**PROFESSIONAL TRAINING**

**Clinical Certificate in Dental Implants**

**2013 - 2014**

State University of Rio de Janeiro, Rio de Janeiro, RJ

Description: Clinical training in dental implant surgical placement and prostheses.

**Computer Data Science and Deep Learning (Python and R)**

**2018**

Udemy Academy (*Online Training*), Evoluth

Description: 18 CE hours of computer sciences focusing on statistical analysis, machine learning, artificial neural networks, deep learning, text mining, dashboards, SQL and NoSQL and project management.

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**PROFESSIONAL AFFILIATIONS**

**Society for Biomaterials**, 2021-Present

Member.

**American Association for Dental, Oral, and Craniofacial Research**, 2020-Present

Board Member.

**Academy of Operative Dentistry**, 2020-present

Member

**American Dental Education Association**, 2020-present

Member

**Academy of Dental Materials**, 2015-Present

Member.

**Dental Materials Group – International Association for Dental Research**, 2013-Present

Member.

**International Association for Dental Research**, 2013-Present

Member.

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**PROFESSIONAL SERVICE**

**Faculty Practice**                      **2019-present**

Academic Enrichment Fund, Provide patient care in General Dentistry at the University of Florida College of Dentistry.

**Private Practice**                      **2014-2019**

Owner, Comprehensive Dentistry.

**Peer-Reviewed Articles for:**

- Journal of Materials Research
- Operative Dentistry
- Clinical Oral Investigation
- Odontology
- Journal of Esthetic and Restorative Dentistry (JERD)
- International Journal of Esthetic Dentistry (IJED)
- Applied Sciences
- Materials
- Tomography
- Full Dentistry in Science
- Clinical, Cosmetic and Investigational Dentistry
- Stomatology Edu
- Journal of Composites Science
- Revista de Odontologia da UNESP

**U.S. TAG for ISO/TC 106 Dentistry**                      **2021-present**

Observer Sub-TAG 1 Restorative & Orthodontic Materials

Observer Sub-TAG 2 Prosthodontic Materials

Observer Sub-TAG 6 Dental Equipment

**National Dental PBRN Virtual Annual Practitioner Meeting**                      **2021**

Group Session Facilitator.

**ADMINISTRATION**

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**Staff Supervision**

Mya Arong, Laboratory Assistant, Federal Work-Study, Center for Dental Biomaterials, 2022-present.

**COMMUNITY SERVICE**

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**COVID-19 Dental Emergency Care**

Dental Provider, College of Dentistry, University of Florida, March 2020

**Saturday Super Sealant**

Dental Provider and Supervisor, College of Dentistry, University of Florida,  
02/01/2020

## **LANGUAGES**

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**English:** Bilingual Proficiency

**Portuguese:** Native Language

**Spanish:** Intermediate Listener, Novice Speaker, Advanced Reading, and Writing

## **COMPUTER SKILLS**

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**Programming:** Python language; Debian Linux programming; Arduino Language; Java; PHP  
Microsoft Power Automate, FTP/IPv4 networking.

**Applications:** Adobe Photoshop; Adobe Lightroom; Adobe Premier Pro ; Final Cut Pro X ;  
Microsoft Office package (Excel, PowerPoint, Word) ; AutoCAD/Autodesk; SolidWorks 3D  
Systems ; Geomagic Control X ; Origin Pro ; Stata 13 MP ; IBM SPSS 21 ; Image J; SAS.

**Platforms:** Adobe Creative Cloud; Microsoft Cloud Services; WordPress Web Design.

## **OTHER**

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### **Interests/Hobbies**

Weightlifting; e-sports (Call of Duty and FIFA); Acoustic Guitar and Cavaquinho

### **Citizenship**

Brazilian

## **REFERENCES**

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**Dr. Jack Liborio Ferracane**, Professor and Chair  
Department of Restorative Dentistry, Biomaterials and Biomechanics  
Oregon Health & Science University  
2730 S. Moody Avenue  
Portland, OR 97201  
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Email: [ferracan@ohsu.edu](mailto:ferracan@ohsu.edu)

**Dr. Jean-Francois Roulet**, Professor  
Department of Restorative Dental Sciences  
University of Florida College of Dentistry  
1395 Center Drive, Room D9-6  
Gainesville, FL 32610  
Phone: +1 352-273-5850

Email: [jroulet@dental.ufl.edu](mailto:jroulet@dental.ufl.edu)

**Dr. Rodrigo Rocha Maia**, Clinical Associate Professor  
Department of Cariology, Restorative Sciences and Endodontics  
University of Michigan School of Dentistry  
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Department of Prosthodontics and Dental Materials  
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