Vasileios

Anagnostopoulos, PhD

Assistant Professor

Department of Chemistry

CURRICULUM VITAE

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Vasileios Anagnostopoulos, Ph.D.
Assistant Professor
Department of Chemistry
University of Central Florida
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EDUCATION

Postdoctoral Training

Florida International University 2014-2017
Advisors: Dr. Yelena Katsenovich and Dr. David Kadko

University of Miami 2012-2013
Advisor: Dr. Claudia M. Diaz-Montero

Graduate Studies

Doctor of Philosophy in Chemistry (Radiochemistry) 2006-2011
Department of Chemistry, University of Patras (Greece)
Advisor: Dr. Basil D. Symeopoulos

Dissertation Title: *Evaluation of agro-industrial by-products as low-cost sorbent materials for the removal of radionuclides from aquatic systems. Study of winery and brewery by-products for the removal of actinides*

Master of Science, Analytical Chemistry (Environmental Track) 2010-2012
Department of Chemistry, University of Patras (Greece)
Advisor: Dr. Basil D. Symeopoulos

Dissertation Title: *Use of organic matter by-products for the removal of uranium from acidic aquatic systems*

Undergraduate Studies

Bachelor of Science, Chemistry 2000-2005
Department of Chemistry, University of Patras (Greece)
Advisor: Dr. Magdalini Soupioni

Undergraduate Research Dissertation Title: *Determination of trace elements in natural water using Instrumental Neutron Activation Analysis*

EMPLOYMENT

University of Central Florida 2018-present
Department of Chemistry, Orlando, Florida
Assistant Professor

Florida Memorial University 2017-2017
Department of Natural Sciences, Miami Gardens, Florida
Adjunct Assistant Professor (Radiochemistry)

Florida International University 2014-2018
Applied Research Center, Miami, Florida
Postdoctoral Research Fellow

University of Miami 2012-2013
Sylvester Comprehensive Cancer Center, Miami, Florida
Postdoctoral Research Fellow

University of Patras (Greece) 2006-2011
Department of Chemistry, Patras, Greece
Graduate Research Assistant

University of A Coruña (Spain) 2009-2009
Department of Chemical Technology, A Coruña, Spain
Visiting Research Fellow

HONORS AND AWARDS

- 2022 UCF Department of Chemistry "Service to the Department" Award
- 2019 & 2022 Safety Champion – University of Central Florida

Award for faculty that "*upholds high safety standards in a research setting may take an active role on safety committees or lead by example among their peers*"

- 2022 and 2023 AIM HIGH Recognition – University of Central Florida

Recognition for "*faculty members who have made a difference at UCF to ensure our students get a quality education with affordable course materials through the affordable instructional materials (AIM) initiative*"

- 2015 Mentor of the Year – Florida International University
- 2014 Recognized Reviewer Award by Elsevier Editorial Board
- 2nd Young Research Award during 3rd International Conference of Sustainable Development

RESEARCH

* Highlighted in blue are the publications under UCF Affiliation and in bold are members of my research group

** the percentile of the journal ranking in its discipline is denoted (source: Scopus) for publications after joining UCF

Scientific Publications (Refereed)

1. **Szlamkowicz I, Stanberry J, Lugo K, Murphy Z, Ruiz Garcia M, Hunley L,** Qafoku N, **Anagnostopoulos V.** Role of Manganese Oxides in Controlling Subsurface Metals and Radionuclides Mobility: A Review (2023) *ACS Earth and Space Chemistry*, 7(1), 1-10 84 % Percentile
2. **Szlamkowicz I, Fentress A, Stanberry J, Longen L, Anagnostopoulos V.** Transformations and Speciation of Radioiodine in the Environment as a Result of Oxidation by Manganese Minerals. (2022) *ACS Earth and Space Chemistry*, 6(8), 1948-1956 84 % Percentile
3. **Ruiz Garcia M, Stanberry J., Ballerini Ribeiro Gomes G, Anagnostopoulos V.** Oxidative dissolution of Cr(OH)3 and mixed Fe-Cr(III) phases by aqueous Mn(III)-pyrophosphate complex (under review), *Journal of Environmental Sciences* 95% Percentile
4. **Szlamkowicz I, Hager T, Stanberry J, Anagnostopoulos V.** Brief study on the importance of filtration in technetium and (radio)iodine experiments: avoiding over- and underestimating values (under review) *Journal of Radioanalytical and Nuclear Chemistry* 53% Percentile
5. Strickland K, Holland A, Trudeau A, **Szlamkowicz I**, Beazley M, **Anagnostopoulos V**, Graham D, Caranto J. Reduction of a Heme Cofactor Initiates N-Nitroglycine Degradation by NnlA (2022) *Applied and Environmental Microbiology* 88(16), e01023-22 91% Percentile
6. Ma Z, Holland A, **Szlamkowicz I, Anagnostopoulos V**, Caldas Nogueira ML, Caranto JD, Davidson VL. The hemerythrin-like diiron protein from *Mycobacterium kansasii* is a nitric oxide peroxidase. *Journal of Biological Chemistry*, 298(3), 101696 83% Percentile
7. Pilevar M, Hwang JH, **Stanberry J, Anagnostopoulos V**, Chumbimuni-Torres K, Lee WH. Bismuth-Chitosan Nanocomposite Sensors for Trace Level Detection of Ni (II) and Co (II) in Water Samples (2022). *Water*, 14(3), 302-317 83% Percentile
8. **Stanberry J., Szlamkowicz I., Magno D., Shultz L., Anagnostopoulos V.**_Oxidative dissolution of TcO2 by Mn(III) minerals under anaerobic conditions: Implications on technetium-99 remediation. (2021) *Applied Geochemistry*, 127, 104858 80% Percentile
9. **Stanberry J., Szlamkowicz I., Purdy L., Anagnostopoulos V.** TcO2 oxidative dissolution by birnessite under anaerobic conditions: a solid-solid redox reaction impacting the environmental mobility of Tc-99. (2021). *Environmental Science: Processes and Impacts* 86% Percentile
10. Hwang JH, Fox D, **Stanberry J, Anagnostopoulos V,** Zhai L, Lee WH. Direct Mercury Detection in Landfill Leachate Using a Novel AuNP-Biopolymer Carbon Screen-Printed Electrode Sensor (2021). *Micromachines*, 12(6), 649-663 84% Percentile

11. Shultz L., Feit C., **Stanberry J**., Gao Z., Xie S., **Anagnostopoulos V.,** Liu F., Banerjee P., Jurca T. (2021). Ultra-Low loading ruthenium on alumina monoliths for facile, highly recyclable reduction of p-nitrophenol. *Catalysts,* 11(2), 165 83% Percentile
12. **Anagnostopoulos V.,** Katsenovich Y., Lee BD, Lee MH (2020). Biotic dissolution of autunite under anaerobic conditions: effect of bicarbonates and *Shewanella oneidensis* MR1 microbial activity. *Environmental Geochemistry and Health*, 42(8), 2547-2566 87% Percentile
13. Morozov AN, Govor EV, **Anagnostopoulos V**, Kavallieratos K, Mebel AM (2018). Coordination of Sm(III) and Am(III) to the 1,3,5-Tris-(4-(iso-propyl)-phenylsulfamoylmethyl)benzene Ligand: An Experimental and Theoretical Study. *Molecular Physics*, 116(19-20), 2719-2727
14. Gonzalez-Raymat H, **Anagnostopoulos V**, Katsenovich Y, Denham M. (2018). Unrefined humic substances as a potential low-cost amendment for the management of acidic groundwater contamination. *Journal of Environmental Management*, 212, 210-218
15. **Anagnostopoulos V**, Katsenovich Y, Denham M (2017). Sodium silicate treatment for the attenuation of U(VI) in acidic groundwater plumes. *Journal of Chemical Technology and Biotechnology*, 92(8), 1919-1927
16. Anastopoulos I., **Anagnostopoulos V.,** Bhatnagar A., Mitropoulos CA., Kyzas GZ. (2017). A review for chromium removal by carbon nanotubes. *Chemistry and Ecology* 33 (6), 1-17
17. **Anagnostopoulos V.,** Koutsoukos PG., Symeopoulos BD. (2015) Removal of U(VI) from aquatic systems, using winery by-products as biosorbents: equilibrium, kinetic and speciation studies. *Water, Air and Soil Pollution* 226 (4), 107-113
18. **Anagnostopoulos V**, Bourikas K., Bekatorou A., Symeopoulos BD. (2015). Biosorption of U(VI) from aqueous systems by malt spent rootlets. Kinetic, equilibrium and speciation studies. *International Journal of Environmental Science and Technology*, 13, 285-296
19. **Anagnostopoulos V.**, Vlachou A., Symeopoulos BD. (2015). Immobilization of Saccharomyces cerevisiae on low-cost lignocellulosic substrate for the removal of Cd(II) from aquatic systems. *Journal of Environment & Biotechnology Research*, 1(1), 23-29
20. **Anagnostopoulos V.**, Symeopoulos BD. (2014). Significance of age, temperature and aeration of yeast cell culture for the biosorption of europium from aquatic systems. *Desalination and Water Treatment*, 57(9), 3957-3963
21. **Anagnostopoulos V.,** Symeopoulos BD. (2013). Sorption of europium by Malt Spent Rootlets, a low-cost biosorbent: effect of pH, kinetics and equilibrium. *Journal of Radioanalytical and Nuclear Chemistry* 295 (1), 1-7
22. Díaz-Montero CM., Abdel-Aziz Z., Pallin MF., **Anagnostopoulos V.,** Salem ML., Wieder E., Komanduri K., Montero AJ., Lichtenheld MG. (2013). Understanding the biology of ex vivo-expanded CD8 T cells for adoptive cell therapy: role of CD62L. *Immunologic Research*, 57(1-3), 23-33
23. **Anagnostopoulos V.**, Manariotis ID., Karapanagioti HK. (2012). Removal of mercury from aqueous solutions by Malt Spent Rootlets. *Chemical Engineering Journal* 213, 135-141
24. **Anagnostopoulos V.,** Bekatorou A., Symeopoulos BD. (2011). Contribution to interpretation of metal uptake dependence upon the growth phase of microorganisms. The case of U(VI) uptake by common yeasts, cultivated at different temperatures, with or without aeration. *Journal of Radioanalytical and Nuclear Chemistry* 287 (2), 665-671

25. Carro L., **Anagnostopoulos V.,** Lodeiro P., Barriada JL., Herrero R., Sastre de Vicente ME. (2010). A dynamic proof of mercury elimination from solution through a combined sorption reduction process. *Bioresource Technology* 101 (23), 8969-8974
26. **Anagnostopoulos V.,** Soupioni MJ., Symeopoulos BD. (2010) Effect of growth conditions on biosorption of cadmium and copper by yeast cells. *Global Network of Environmental Science and Technology Journal* 12(3), 288-295

Peer-Reviewed Conference Papers

1. **Anagnostopoulos V.**, Symeopoulos BD. (2008). A preliminary study of europium uptake by yeast cells. The case of *Kluyveromyces marxianus*. American Institute of Physics, pp 203

Scientific Publications (In Preparation)

1. Stanberry J, Morgan K, Russel I, Anagnostopoulos V. Mobilization of TcO_2 by redox active Mn(III)-pyrophosphate complex under oxygen restricted environmental conditions.
2. Snyder M., Hager T. Stanberry J., Szlamkowicz I., Anagnostopoulos V. Sorption of uranium on manganese oxides in the presence of siderophore desferrioxamine B

Invited Seminar Speaker

1. **2021 & 2022 American Chemical Society – Department of Energy Nuclear Chemistry Summer School**
   "Nuclear Science at the University of Central Florida: where Radiochemistry & Environmental Chemistry Collide", Brookhaven National Laboratory, Long Island, NY
2. **2022 University of Patras Department of Chemistry Analytical Chemistry Seminar Series**
   "Addressing nuclear legacy contamination in the United States: overview of the environmental and analytical challenges in the largest environmental cleanup program in the world", Patras, Greece
3. **2021 Western Michigan University Department of Chemistry Lecture Series**
   "Geochemical controls of manganese oxides in the mobility of anionic contaminants in the environment: the case of iodine and technetium", Kalamazoo, MI
4. **2021 Florida International University Department of Chemistry and Biochemistry Seminar Series**
   "Manganese oxides: Redox active minerals responsible for the proliferation of technetium and iodine in the environment", Miami, FL

Scientific Journal Editor Invitations

Guest Editor after invitation of the Special Issue "Source, occurrence, pathway and fate of heavy metals in the water environment", *Water* (75% percentile)

Conference Presentations (Invited)

* Highlighted in blue annotates the presenter

Under UCF Affiliation

1. Stanberry J, Szlamkowicz I, Grabe A, Anagnostopoulos V. Manganese oxide geochemical controls over Tc-99 fate in the environment: TcO_2 oxidative dissolution. 2019 Southeast Regional American Chemical Society Meeting (SERMACS), Savannah GA
2. Stanberry J, Anagnostopoulos V. Tc_2S_7 as a potential immobilization form for ^{99}Tc in the environment: stability and dissolution studies. 2019 Florida American Chemical Society Meeting, Palm Harbor FL
3. Anagnostopoulos V. Environmental radiochemistry at the University of Central Florida: Biogeochemical transformations of radionuclides in the environment. 2018 Fall American Chemical Society Meeting, Boston, MA

Conference Presentations (Contributed)

Under UCF Affiliation

1. Anagnostopoulos V, Snyder ML, Lugo K, Stanberry J, Szlamkowicz I. Environmental fate of actinide-siderophore complexes: The case of desferrioxamine B-actinide-manganese oxide ternary system. Fall 2022, ACS Meeting and Exposition, Chicago, IL
2. Stanberry J, Morgan K, Russell I, Anagnostopoulos V. The Proliferation of Tc-99 as affected by Ferrous Reductants and Manganous Oxidants: A Battle of Oxidations States. Fall 2022, ACS Meeting and Exposition, Chicago, IL
3. Ruiz Garcia M, Stanberry J, Ballerini Ribeiro Gomes G, Anagnostopoulos V. $Cr(OH)_3$ oxidative dissolution to aqueous Cr(VI) by Mn(III)-pyrophosphate complex. Fall 2022, ACS Meeting and Exposition, Chicago, IL
4. Murphy Z, Rai D, Cohen R, Stanberry J, Anagnostopoulos V. Effect of ligands on the stability of studtite ($UO_2O2{\cdot}4H_2O$) under repository and environmental conditions. Fall 2022, ACS Meeting and Exposition, Chicago, IL.
5. Szlamkowicz I., Colon Roman L., Pereira B., Hunley L., Stanberry J., Anagnostopoulos V. Manganese oxides as geochemical regulators of the fate and transport in the environment. Fall 2022, ACS Meeting and Exposition, Chicago, IL.
6. I. Szlamkowicz, A. Fentress, L. Longen, V. Anagnostopoulos. Radio-iodine transformations and speciation in the environment as a result of oxidation by manganese minerals: Challenges in iodine fate and transport prediction. Spring 2022, ACS Meeting and Exposition, San Diego, CA
7. Szlamkowicz I, Fentress A, Longen L, Anagnostopoulos V. Comparative study of redox transformations and environmental fate of iodine as influenced by manganese oxides at high and low concentrations. 2021 RemPlex Summit, Richland, WA
8. Anagnostopoulos V, Technetium Proliferation Under Anoxic Conditions by Manganese Oxides: the Case of Solid-solid Interactions. 2021 RemPlex Summit, Richland, WA

9. Snyder ML, Hager T, Anagnostopoulos V. Environmental fate of actinide-siderophore complexes: desferrioxamine B promoted sorption of U(VI) on manganese minerals. Spring 2021 American Chemical Society Meeting, San Antonio, TX
10. Stanberry J, Szlamkowicz I, Shultz L, Anagnostopoulos V. Oxidative Dissolution of TcO2 by Manganese Oxides Under Anoxic Conditions. Waste Management Symposia, 2021, Phoenix, AZ
11. Szlamkowicz I., Longen L., Grabe A., Anagnostopoulos V. Geochemical Controls of Mn(III) Minerals Over Iodide's Environmental Fate. 2020 Clay and Minerals Society International Meeting, Richland, WA
12. Stanberry J, Szlamkowicz I, Purdy LR, Anagnostopoulos V. Oxidative Dissolution of TcO_2 by synthetic birnessite under anaerobic conditions. 2020 Clay and Minerals Society International Meeting, Richland, WA
13. Stanberry J, Szlamkowicz I., Magno D., Anagnostopoulos V. TcO2 oxidative dissolution by manganite and bixbyite under anaerobic conditions. 2020 Clay and Minerals Society International Meeting, Richland, WA
14. Stanberry J, Szlamkowicz I., Magno D., Anagnostopoulos V. Geochemical controls of bixbyite and manganite on the mobility of Tc-99: TcO2 oxidative dissolution under anoxic conditions. Fall 2020 American Chemical Society Meeting, San Diego, CA
15. Stanberry J, Szlamkowicz I, Purdy LR, Anagnostopoulos V. Role of Mn(III,IV) Oxide on the Environmental Stability of Tc-99 Insoluble Phases: Oxidative Dissolution of TcO_2 at Anoxic Conditions. Fall 2020 American Chemical Society Meeting, San Diego, CA
16. Anagnostopoulos V, Symeopoulos B. Alkali treated malt spent rootlets for the removal of U(VI) from acidic aqueous solutions. 2019 European Geochemistry Union Meeting, Vienna, Austria
17. Stanberry J, Anda A, Gudavalli RKPG, Qafoku N, Anagnostopoulos V. Dissolution studies of technetium sulfide under oxidizing and reducing conditions: Effect of pH and ionic strength. 2019 Spring American Chemical Society Meeting, Orlando, FL
18. Stanberry J, Anda A, Gudavalli RKPG, Qafoku N, Anagnostopoulos V. Technetium sulfide as a potential immobilization form for Tc-99 in the environment: stability and dissolution studies. 2018 Fall American Chemical Society Meeting, Boston, MA
19. Stanberry J., Anagnostopoulos V. Technetium sulfide as a potential immobilization form for Tc-99 in the environment: stability and dissolution studies under oxidizing conditions. 2019 Waste Management Symposium, Phoenix, AZ

Under Previous Affiliations (selected)

1. Govor E, Twomey M, Tosin J, Anagnostopoulos V, Morozov AN, Mebel A, Raptis RG, Kavallieratos K, Tripodal Sulfonamide and Pyrazolyl Ligands for Extraction and Sensing of Lanthanides and Actinides. Global 2017 International Nuclear Fuel Cycle Conference, Seoul, Korea
2. Govor E, Anagnostopoulos V, Morozov AN, Mebel A, Raptis RG, Kavallieratos K Trivalent f-metal coordination and extraction by tripodal sulfonamide ligands and analogs. 2017 Fall American Chemical Society Meeting, San Francisco, CA

3. Hernnandez A, Wipfli C, Anagnostopoulos V, Katsenovich Y, Denham M. Sodium silicate treatment for the attenuation of U(VI) in acidic groundwater plumes. 2016 Fall American Chemical Society Meeting, Philadelphia, PA
4. Anagnostopoulos V, Lagos L, Triay I. Training tomorrow chemists at Florida International University, the largest Hispanic serving institution. 2016 Fall American Chemical Society Meeting, Philadelphia, PA
5. Herrera S, Anagnostopoulos V, Katsenovich Y, Lee B, Lee MH. The effect of bicarbonate on autunite dissolution in the presence of *Shewanella oneidensis* under oxygen restricted conditions. 2016 Waste Management Symposium, Phoenix, AZ
6. Anagnostopoulos V. Young Scientists joining the Nuclear Workforce, 2016 Waste Management Symposium, Phoenix, AZ

Conference Symposium Organizer

Under UCF Affiliation

1. **Young Investigators in Nuclear Chemistry**
   Fall 2022 American Chemical Society Meeting, Chicago, IL
2. **General Topics in Nuclear Chemistry**
   Spring 2022 American Chemical Society Spring Meeting, San Diego, CA
3. **Advancements in Environmental Chemistry**
   2019 Southeast Regional Meeting of American Chemical Society Meeting , Savannah, GA
4. **Novel Sorbent Materials for Environmental Remediation**
   European Geochemistry Union, Vienna, Austria

Under Previous Affiliations

1. **Fate, transport and remediation of radionuclides in the environment**
   2017 Fall American Chemical Society Meeting
   August 2017, Washington DC

Grants

Grants Funded

1. **Title**: Faculty Development for Radiochemistry Program at the University of Central Florida
   Type: Early Career
   Agency: US Nuclear Regulatory Commission
   Funds: $610,000
   Role: PI
   Credit: 100%
   Performance Period: 07/22/2019 – 07/21/2022

2. **Title:** Technetium Sulfide as a Potential Immobilization Form for Tc-99 in the Environment: Stability and Dissolution Studies
   Type: R&D
   Agency: Department of Energy (through Savannah River Nuclear Solutions)
   Funds: $47,104
   Role: PI
   Credit: 100%
   Performance Period: 05/1/2018 – 12/31/2018

3. **Title**: Consortium for Nuclear Forensics
   Type: R&D
   Agency: National Nuclear Security Administration – Department of Energy
   Funds: $1,559,999.80
   Role: PI
   Credit: 50%
   Performance Period: 07/1/2023 – 06/30/2028

4. **Title**: Fellowships in Support of the Radiochemistry Program at the University of Central Florida (intent to award has been issued; pre-award review is undergoing)
   Type: R&D
   Agency: U.S Nuclear Regulatory Commission
   Funds: $397,943
   Role: PI
   Credit: 100%
   Performance Period: 03/31/2023 – 03/30/2027
5. **Title**: LC-MS-MS Instrumentation for Department of Chemistry
   Type: Instrumentation
   Agency: Internal
   Funds: $400,000
   Role: co-PI
   Credit: N/A
   Performance Period: N/A

TEACHING

Courses

- Chemistry Fundamentals II, CHM2046 (Fall 2018)
- Chemistry Fundamentals II, Honors College, CHM2046C (Spring 2019, 2020 & 2021)
- Radiochemistry, CHS4932 & CHS5110 (Fall 2019, Fall 2020)
- Chemistry Fundamentals I, CHM2045 (Fall 2021)
- Independent Research, CHM4912 (2018-present, every semester)

Teaching Experience before UCF

- Advanced Radiochemistry (CHE370) and Advanced Radiochemistry Lab (CHE371)
  Florida Memorial University (2017)
- Advanced Radiochemistry CHM6111
  Florida International University (2017)

Student Mentoring

Graduate Students

Jordan Stanberry
Ph.D in Chemistry, Joined Fall 2019
Project title: Oxidative dissolution of TcO_2 by redox reactive manganese minerals and Mn(III)-L aqueous complexes

Ilana Szlamkowicz
Ph.D in Chemistry, Joined Spring 2021
Project title: Redox reactive minerals geochemical controls over the fate of iodine in the natural environment

Zachary Murphy
Ph.D in Chemistry, Joined Fall 2021
Project title: Stability of U(IV) and U(VI) phases in the presence of ligands under repository conditions

Lucinda Hunley
Ph.D in Chemistry, Joined Spring 2023
Project title: Stability of U(IV) and U(VI) phases in the presence of ligands under repository conditions

Graduate Students (Former)

Morgan Snyder
M.Sc. in Chemistry, Joined Fall 2019 – Graduated Fall 2020 (Thesis Defense: 11/18/2020)
Project title: Sorption of U(VI) on manganese oxides in the presence of siderophore desferrioxamine-B
Current Position: U.S. Air Force

Undergraduate Students

Giovanna Ballerini Ribeiro Gomes, B.Sc. in Chemistry, Fall 2021-present
David Rai II, B.Sc. in Chemistry, Fall 2021-present
Austin Carroll, B.Sc. in Chemistry, Fall 2021-present
Mark Richards, B.Sc. in Chemistry, Fall 2021-present
Zachary Ronchetti, B.Sc. in Chemistry, Fall 2021-present
Thomas Carroll, B.Sc. in Chemistry, Fall 2021-present
Rachel Cohen, B.Sc. in Chemistry, Fall 2021-present

Undergraduate Students (Former)

Lucinda Hunley, B.Sc. in Chemistry, Spring 2022-Fall 2022
Kyle Morgan, B.Sc. in Chemistry, Summer 2021-Spring 2022
Ian Russell, B.Sc. in Chemistry, Fall 2021- Spring 2022
Keishla Roman Vazquez, B.Sc. in Chemistry, Fall 2021-Spring 2022
Luke Longen, B.Sc. in Chemistry, Fall 2020-Fall 2021
Andrew Fentress, B.Sc. in Chemistry, Fall 2020-Fall 2021
Steven Latta, B.Sc. in Health Sciences, Spring 2019-Summer 2020
Laure Rose Purdy, B.Sc. in Chemistry, Fall 2019-Summer 2020
David Magno, B.Sc. in Chemistry, Fall 2019-Fall 2020
Andrew Grabe, B.Sc. in Chemistry, Spring 2019-Fall 2020
Aljanae Cadet, B.Sc. in Health Sciences, Fall 2018 – Summer 2019
Ji Chang, B.Sc. in Health Sciences, Fall 2018 – Summer 2019
Djordje Jagodic, B.Sc. in Health Sciences, Spring 2019 – Fall 2019
Jordan Stanberry, B.Sc. in Chemistry, Summer 2018 – Summer 2019
Ilana Szlamkowicz, B.Sc. in Chemistry, Spring 2019 – Fall 2020

Student Awards under my Mentorship

- David Rai II – 2023 Waste Management Symposium Travel Award
- Jordan Stanberry – 2022, 2nd National Award in the "Innovations in Nuclear Technology R&D Awards" by the U.S. Department of Energy
- Jordan Stanberry – 2021 American Chemical Society Award for Graduate Studies in Environmental Chemistry
- Ilana Szlamkowicz – 2021 American Chemical Society Award for Undergraduate Students in Environmental Chemistry
- Jordan Stanberry – 2020 Clay and Minerals Society Student Travel Award
- Jordan Stanberry – 2019 American Chemical Society Award for Undergraduate Students in Environmental Chemistry
- Jordan Stanberry – 2019 Waste Management Symposium Student Travel Award

Prestigious Fellowships & Internships

- David Rai II – Department of Energy Student Undergraduate Laboratory Internship (SULI), Summer 2023, Oak Ridge National Laboratory (TN)
- Jordan Stanberry – National Nuclear Security Administration – DOE Fellowship, Summer 2022, Lawrence Livermore National Laboratory (CA)
- Ian Russell - Department of Energy Student Undergraduate Laboratory Internship (SULI), Summer 2022, Oak Ridge National Laboratory (TN)
- Kyle Morgan - Department of Energy Student Undergraduate Laboratory Internship (SULI), Summer 2022, Oak Ridge National Laboratory (TN)
- Travis Hager - Department of Energy Student Undergraduate Laboratory Internship (SULI), Summer 2021, Oak Ridge National Laboratory (TN)

SERVICE

Service to the University, College and the Department

Service to the Department of Chemistry

- Department of Chemistry Chair Selection Committee, 2022
- Graduate Admissions Committee 2018 - 2021
- Facilities and Safety Committee 2018 – present
- Marketing & Advertising Committee, 2020-present

In 2020, I spearheaded the effort to create a Marketing & Advertising Committee whose purpose will be to increase the department's name recognition through efforts in social media, re-structuring the department's website and coordinating with other committees (Alumni,

Graduate Program etc.) to project the department's accomplishments and facilitate recruiting

- Diversity and Inclusion Committee, 2020-2021
- Chair's Advisory board, 2021-prsesent
- External Advisory Board, 2021-present
- Graduate Student Recruitment
  - Participated, representing the department, in the Graduate Fair at the 2019 Fall American Chemical Society Meeting (San Diego, CA) and at the 2020 ACS Puerto Rico Section Graduate Fair
  - Organized the first Department of Chemistry Virtual Graduate Fair in Fall 2021 and Spring 2022. Duties included coordination with faculty-presenters, outreach to universities and students for participation through mailing lists, recording and disseminating the video to participants.
  - Presented UCF Chemistry Graduate Program in an invited seminar at Florida Gulf Coast University
- Member of the Organizing Committee of the UCF Chemistry Open House (2019)
  UCF Chemistry Open House took place in March 2019 and it aimed to attract scientists and industry leaders that were attending this period the ACS Conference in Orlando to visit UCF's Department of Chemistry facilities and meet with the faculty. This event increased the department's visibility on a national level and facilitated networking and forging future collaborations.
- Hosted 8 invited speakers: Dr. Mavrik Zavarin, Director of Seaborg Institute at Lawrence Livermore National Lab, Dr. Raphael Raptis, Professor at Florida International University, Dr. Daniel Kaplan, Research Scientist at Savannah River National Laboratory, Dr. Luke Sadergaski, Research Scientist at Oak Ridge National Laboratory and Dr. Amy Hixon, Associate Professor at University of Notre Dame, Dr. Nathalie Wall, Professor at University of Florida, Dr. Ken Czerwinski, Professor at the University of Nevada Las Vegas. Dr. Thibaut Lecrivain, Scientist at Idaho National Laboratory.

<u>Dissertation / Candidacy Committee Member</u>

1. Jordan Stanberry
PhD Candidate, UCF Department of Chemistry
Committee Chair and Advisor

2. Ilana Szlamkowicz
PhD Candidate, UCF Department of Chemistry
Committee Chair and Advisor

3. Lucinda Hunley
PhD Candidate, UCF Department of Chemistry
Committee Chair and Advisor

4. Zachary Murphy
PhD Candidate, UCF Department of Chemistry
Committee Chair and Advisor

5. Nicholas Young
PhD Candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Melanie Beazley

6. David Fairchild
PhD Candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Fernando Uribe-Romo

7. Anthony Santana
PhD Candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Andres Campiglia

8. Ace Tanner
PhD Candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Michael Hampton

9. Kirsten Livingston
PhD Candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Matthieu Baudelet

10. Edwin Davidson
PhD Candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Swadeshmukul Santra

11. John Lucchi
PhD candidate, UCF Department of Chemistry
Committee Member - Advisor: Dr. Matthieu Baudelet

Service to the College

- 2022 Member of the Research Incentive Award (RIA) committee

Service to the University

- Radiation Safety Committee (2019-present)
  Due to my expertise and training in the field of radiochemistry, I was nominated by the Chair of the Department to serve in the University's Radiation Safety Committee.
- Part of interviewing and selection committee of the university's new Radiation Safety Officer (Summer 2020).
- Office of Research workshop as a DOE awardee
  Participated 3 consecutive years (2019, 2020 and 2021) to the "Department of Energy Office of Research Workshop" as a former DOE awardee

- Performed review for the Internal Grant Program of UCF Office of Research.

Service to the Profession

Manuscript Reviewer

ACS Earth and Space Chemistry	Environment International
Journal of Environmental Management	Journal of Molecular Liquids
Journal of Environmental Radioactivity	Journal of Cleaner Production

Grant Reviewer

- US Department of Energy – Office of Nuclear Energy
  "Consolidated Innovative Nuclear Research Funding Opportunity Announcement" FY2018, FY2019, FY2020, FY2022 and FY2023
- US Department of Energy – Office of Technology Transitions (OTT)
  "Technology Commercialization Fund (TCF)" FY2020 & FY2021

- US Department of Energy – Office of Science
  "Small business Innovation Program" FY2022 and FY2023