

# DR. LINH PHAM

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## EDUCATION

- Ph.D.** University of Florida, Gainesville, FL 2014
- **Major:** Chemistry
  - **Minor:** Biochemistry and Molecular Biology
- B.Eng.** Hanoi University of Technology (HUT), Hanoi, Vietnam 2007
- **Major:** Chemical Engineering

## POSITIONS AND EMPLOYMENT

- Associate Professor of Chemistry – Texas A&M University – Central Texas 2021-Present
- Assistant Professor of Chemistry – Texas A&M University – Central Texas 2015-2021
- Postdoctoral Associate – University of Florida 2014-2015
- Research Scientist – Vietnam Academy of Science and Technology 2007-2009

## TEACHING EXPERIENCE

- Texas A&M University – Central Texas** 2015-Present
- CHEM 4430 Biochemistry I: Lecture and Lab (Online teaching in Fall 2020)
  - CHEM 4431 Biochemistry II: Lecture and Lab (Online teaching in Spring 2021)
  - CHEM 3415 Analytical Chemistry: Lecture and Lab (Online teaching in Fall 2020)
  - CHEM 4415 Instrumental Analysis: Lecture and Lab (Online teaching in Spring 2021)
  - BIOL 4475 Proteomics: Lecture and Lab
  - BIOL 4389 Special Topics in Biology: Lecture and Lab
  - BIOL 3380 Research Methods: This is a writing instructive course and the first Service-Learning course offered by the Department of Science and Mathematics. (Online teaching in Fall 2020 and Spring 2021)
- University of Florida** 2009 – 2014
- CHM 3217 Organic Chemistry/Biochemistry Lecture
  - CHM 4300L Biochemistry and Molecular Biology Lab
  - CHM 3610 Inorganic Chemistry Lecture and Lab
  - CHM 2046 & CHM 2046L General Chemistry II Lecture and Lab
  - CHM 2045 & CHM 2045L General Chemistry I Lecture and Lab
  - CHM 1013 Hybrid/Online Introductory Chemistry for Nurses

## RESEARCH EXPERIENCE

- Visiting Research Scholar**, Indiana University, Indianapolis, IN 6/2022-8/2022
- Project: mechanism of synergistic regulations of biliary inflammation and fibrosis.
- Visiting Research Scholar**, Indiana University, Indianapolis, IN 6/2021-8/2021
- Project: mast cells in liver disease progression.
- Visiting Research Scholar**, Indiana University, Indianapolis, IN 6/2020-7/2020
- Project: the interplay between mast cells, pineal gland and circadian rhythm.
- Visiting Research Scholar**, Indiana University, Indianapolis, IN 6/2019-7/2019
- Project: effects of mast cells on biliary proliferation and fibrosis.
- Visiting Research Scholar**, University of Florida, Gainesville, FL 5/2017-7/2017
- Developed two projects involving copper-lanthanide single molecule magnets (Cu-Ln) and vanadium oxo supra-molecules.
  - Investigated the structures and magnetochemical properties of these molecules using superconducting quantum interference device (SQUID), X-ray crystallography, infrared spectroscopy (IR), and electrochemistry.

**Visiting Research Scholar**, University of Florida, Gainesville, FL

6/2016-8/2016

- Conducted research on the conformational sampling and Non-dimer aggregates of HIV proteases containing Darunavir promoted mutations.

**Postdoctoral Associate**, University of Florida, Gainesville, FL

2014 - 2015

- Developed new methods for the expression, purification and crystallization of HIV-1 proteases.
- Investigated the conformation changes and autoproteolysis in HIV-1 proteases through the use of site-directed spin labeling, X-ray crystallography, mass spectrometry (ESI-MS), electron paramagnetic resonance (EPR) and nuclear magnetic resonance (NMR) spectroscopies.

**Graduate Research Assistant**, University of Florida, Gainesville, FL

2009 – 2014

- Conducted research on synthesis, physical and magnetic characterization of multinuclear metal complexes including homometallic Fe, Mn, lanthanide (Ln), heterometallic Mn-Ln, Fe-Ln, Co-Ln and Cr-Ln, and bio-inorganic clusters containing Mn, Ni, and Fe.

**Research Scientist**, Vietnam Academy of Science and Technology, Hanoi, Vietnam

2007 – 2009

- Conducted research on synthesis, characterization methods and bio-medical applications of quantum dots (CdSe, CdSe/ZnS, and CdS/CdSe/CdS) and metal oxide nanoparticles (SiO<sub>2</sub>, ZnO, and TiO<sub>2</sub>).

**Visiting Scholar**, University of New Orleans, LA

2007

- Conducted research on mechanical behavior of composites materials and nano-materials under high or low temperatures, flammability, and growth under thermal and mechanical loadings.

## PUBLICATIONS

### Manuscripts under review:

- Vik Meadows, Burcin Ekser, Debjyoti Kundu, Tianhao Zhou, Konstantina Kyritsi, **Linh Pham**, Lixian Chen, Lindsey Kennedy, Ludovica Ceci, Nan We, Guido Carpino, Wenjun Zhang, Abdulkadir Isidan, Alison Meyer, Travis Owen, Eugenio Gaudio, Paolo Onori, Gianfranco Alpini, and Heather Francis. Loss of Apical Sodium Bile Acid Transporter Disrupts bile Acid Circulation and Reduces Biliary Damage in Cholangitis. *Under Review at Alimentary Pharmacology and Therapeutics*.
- Lindsey Kennedy, Vik Meadows, Amelia Sybenga, Jennifer Demieville, Laura Hargrove, Burcin Ekser, Wasim Dar, Ludovica Ceci, Debjyoti Kundu, Konstantina Kyritsi, **Linh Pham**, Tianhao Zhou, Shannon Glaser, Fanyin Meng, Gianfranco Alpini, and Heather Francis. Mass Cell-Dependent Lipid Peroxidase Induces Ductular Reaction and Microvesicular Steatosis in Non-Alcoholic Fatty Liver Diseases. *Under Review at Hepatology*.

### Manuscripts in preparation:

- **Linh Pham**, Coady Lapierre, Catherine Pena, Laura Weiser-Erlandson, Randy Stonerod II, Andrew Rhiner, John Barber, and Renae Gosnell. *Multi-dimensional Characterization of Texas Home-distilled Alcohol Using Flame Atomic Spectroscopy, Gas Chromatography and Enzyme-Linked Immunosorbent Assay*.

### Peer-reviewed, Referred Publications:

20. **Linh Pham**, Konstantina Kyritsi, Tianhao Zhou, Ludovica Ceci, Leonardo Baiocchi, Lindsey Kennedy, Sanjukta Chakraborty, Shannon Glaser, Heather Francis, Gianfranco Alpini, and Keisaku Sato. The Functional Roles of Immune Cells in Primary Liver Cancer. *Am. J. Pathol.* **2022**, 192(6), 826-836.
19. **Linh Pham**, Lindsey Kennedy, Leonardo Baiocchi, Vik Meadows, Burcin Ekser, Debjyoti Kundu, Tianhao Zhou, Keisaku Sato, Shannon Glaser, Ludovica Ceci, Gianfranco Alpini, and Heather Francis. Mass Cells in Liver Disease Progression: An Update on Current Studies and Implications. *Hepatology*, **2022**, 75, 213-218
18. **Linh Pham**, Thai Son Cao, Khalil Abboud, George Christou. New Family of Ln<sub>9</sub>Mn<sub>4</sub> (Ln = Gd, Tb, Dy) and Y<sub>9</sub>Mn<sub>4</sub> Clusters from the Use of Methyl-2-pyridyl-ketone oxime in Heterometallic Mn Chemistry. *Polyhedron*, **2021**, 209, 115462.
17. Vik Meadows, Lindsey Kennedy, Burcin Ekser, Konstantina Kyritsi, Debjyoti Kundu, Tianhao Zhou, Lixian Chen, **Linh Pham**, Nan Wu, Jennifer Demieville, Laura Hargrove, Shannon Glaser, Gianfranco Alpini,

- Heather Francis. Mast Cells Regulate Ductular Reaction and Intestinal Inflammation in Cholestasis through Farnesoid X Receptor Signaling. *Hepatology*, **2021**, 74(5), 2684-2698
16. Lindsey Kennedy, Vik Meadows, Amelia Sybenga, Jennifer Demieville, Lixian Chen, Laura Hargrove, Burcin Ekser, Wasim Dar, Ludovica Ceci, Debjyoti Kundu, Konstantina Kyritsi, **Linh Pham**, Tianhao Zhou, Shannon Glaser, Fanyin Meng, Gianfranco Alpini, Heather Francis. Mast Cells Promote Non-Alcoholic Fatty Liver Disease Phenotypes and Microvesicular Steatosis in Mice Fed Western Diet. *Hepatology*, **2021**, 74(1), 164-182
  15. **Linh Pham**, Leonardo Baiocchi, Lindsey Kennedy, Keisaku Sato, Vik Meadows, Fanyin Meng, Chiung-Kuei Huang, Debjyoti Kundu, Tianhao Zhou, Lixian Chen, Gianfranco Alpini, Heather Francis. The Interplay between Mast Cells, Pineal Gland and Circadian Rhythm: Links Between Histamine, Melatonin, and Inflammatory Mediators. *J. Pineal Res.*, **2021**, 70:e12699  
Cover Page for the *J. Pineal Res.* · Volume 70 · No.2 · March 2021  
Link: <https://onlinelibrary.wiley.com/doi/abs/10.1111/jpi.12721?af=R>
  14. Konstantina Kyritsi, Lindsey Kennedy, Vik Meadows, Laura Hargrove, Jennifer Demieville, **Linh Pham**, Amelia Sybenga, Debjyoti Kundu, Karla Cerritos, Fanyin Meng, Gianfranco Alpini, Heather Francis. Mast Cells (MCs) Induce Ductular Reaction Mimicking Liver Injury in Mice via MC-derived TGF- Signaling. *Hepatology*, **2021**, 73(6), 2397-2410
  13. Zhanglong Liu, Trang Tran, **Linh Pham**, Lingna Hu, Kyle Bentz, Daniel A Savin, Gail E Fanucci. Darunavir- Resistant HIV-1 Protease Constructs Uphold a Conformational Selection Hypothesis for Drug Resistance. *Viruses*, **2020**, 12(11), 1275
  12. Lindsey Kennedy, Vik Meadows, Konstantina Kyritsi, **Linh Pham**, Debjyoti Kundu, Rewa Kulkarni, Karla Cerritos, Jennifer Demieville, Laura Hargrove, Shannon Glaser, Tianhao Zhou, Victoria Jaeger, Gianfranco Alpini, Heather Francis. Amelioration of Large Bile Duct Damage by Histamine-2 Receptor Vivo-Morpholino Treatment. *Am. J. Pathol.*, **2020**, 190(5), 1018-1029
  11. Lindsey Kennedy, Vik Meadows, Jennifer Demieville, Laura Hargrove, Shohaib Virani, Shannon Glaser, Tianhao Zhou, Evan Reinhart, Victoria Jaeger, Konstantina Kyritsi, **Linh Pham**, Gianfranco Alpini, and Heather Francis. Biliary Damage and Liver Fibrosis are Ameliorated in a Novel Mouse Model Lacking l-histidine decarboxylase/histamine Signaling. *Lab. Invest.*, **2020**, 100(6) 837-848
  10. **Linh Pham**, Khalil Abboud, Wolfgang Wernsdorfer, George Christou. Family of  $Mn_8Ln_4$  ( $Ln = Gd, Tb, Dy, Ho$ ) and  $Mn_8Y_4$  Single-Molecule Magnets from the Use of 2-(Pyridine-2-yl)propan-2-ol. *Polyhedron*, **2018**, 155, 34-41
  9. Zhanglong Liu, Xi Huang, Lingna Hu, **Linh Pham**, Katye Poole, Yan Tang, Brian Mahon, Wenxing Tang, Kunhua Li, Nathan Goldfarb, Ben Dunn, Robert McKenna, Gail Fanucci. Effects of Hinge Region Natural Polymorphisms on Human Immunodeficiency Virus -1 Protease Structure, Dynamics and Drug – Pressure Evolution. *J. Biol. Chem.*, **2016**, 291, 22741
  8. Zhanglong Liu, Thomas M Casey, Mandy E Blackburn, Xi Huang, **Linh Pham**, Ian M. S. de Vera, Jeff D Carter, Jamie L. Kear-Scott, Angelo M Veloro, Luis Galiano, Gail Fanucci. Pulsed EPR Characterization of HIV-1 Protease Conformational Sampling and Inhibitor-Induced Population Shifts. *Phys. Chem. Chem. Phys.*, **2016**, 18 (8), 5819
  7. Maria Manoli, Sofia Alexandrou, **Linh Pham**, Giulia Lorusso, Wolfgang Wernsdorfer, Marco Evangelisti, Prof. George Christou, Anastasios J. Tasiopoulos. Magnetic “Molecular Oligomers” Based on Decametallic Supertetrahedra: A Giant  $Mn_{49}$  Cuboctahedron and its  $Mn_{25}Na_4$  Fragment. *Angew. Chem. Int.*, **2016**, 128, 689-694
  6. Simon Muche, Irina Levacheva, Olga Samsonova, **Linh Pham**, George Christou, Udo Bakowsky, Malgorzata Holynska. An unprecedented spin-frustrated, low-cytotoxic  $[Ni_{15}]$ -wheel complex with a novel Schiff-base ligand. *Inorg. Chem.*, **2014**, 53 (14), 7642
  5. Dimitris I. Alexandropoulos, Luis Cunha-Silva, **Linh Pham**, Vlasoula Bekiari, George Christou, and Theodoros C. Stamatatos. Tetranuclear Lanthanide (III) complexes with a Zigzag Topology from the Use of Pyridine-2,6-dimethanol: Synthetic, Structural, Spectroscopic, Magnetic and Photoluminescence Studies. *Inorg. Chem.*, **2014**, 53 (6), 3220
  4. **Linh Pham**, Khalil Abboud, Wolfgang Wernsdorfer, George Christou. Synthesis, Structure and Magnetic Properties of  $[Fe^{III}_4Ln^{III}_2]$  ( $Ln = Gd, Tb, Dy, Ho$ ) and  $[Fe^{III}_4Y^{III}_2]$  Clusters. *Polyhedron*, **2013**, 66, 205
  3. Q. M. Ngo, S. Kim, H. Lim, P. T. Nga, **P. T. Linh**, N. X. Nghia, F. Rtermund, K. Kim, A. Avoine, A. Maitre. A Quantitative Analysis of the Optical Reflection Properties of Self-Assembled Opal Films. *Curr. Appl. Phys.*, **2011**, 11, 643
  2. Hai Le Ba, Nghia Nguyen Xuan, Nga Pham Thu, Chinh Vu Duc, **Linh Pham Thuy** and Trang Nguyen Thi Thu. Preparation and Spectroscopic Investigation of CdS/CdSe/CdS Quantum-Dot Quantum-Well Heterostructures. *J. Nanosci. Nanotechnol.*, **2009**, 9, 679-683

1. Celine Vion, Carlos Barthou, Laurent Coolen, Paul Bennaloul, Vu Duc Chinh, **Pham Thuy Linh**, Vu Thi Bich, Pham Thu Nga and Agnes Maitre. Luminescence Properties of II/VI Semiconductor Colloidal Nanocrystals at Collective and Single Scales. *J. Phys. Conf. Ser.*, **2009**, 187, 012018

## CONFERENCE PRESENTATIONS

### International and National Conferences

- AASLD, Digestive Disease Week, Virtual Meetings 2021  
Differential Effects of Melatonin and IL-33/ST-2/NFκB signaling on Mast Cell-Induced Primary Sclerosing Cholangitis  
Lixian Chen, **Linh Pham**, Lindsey Kennedy, Wenjun Zhang, Burcin Ekser, Konstantina Kyritsi, Vik Meadows, Debjyoti Kundu, Ludovica Ceci, Nan Wu, Keisaku Sato, Gianfranco Alpini, Heather Francis
- 256<sup>th</sup> ACS National Meeting and Exposition, Boston, MA 2018  
New Mn/Ln (Ln = Gd, Tb, Dy, Ho) Single-molecule Magnet Families from the introduction of Bulky Groups into 2-(hydroxymethyl)pyridine  
**Linh Pham**, Khalil A. Abboud, Wolfgang Wernsdorfer, and George Christou
- 253<sup>rd</sup> ACS National Meeting and Exposition, San Francisco, CA 2017  
Conformational Sampling and Non-Dimer Aggregates of HIV-1 Proteases Containing Darunavir Promoted Mutations  
**Linh Pham**, Zhanglong Liu, Lingna Hu, Xi Huang, Avni Bhatt, Kyle Bentz, Trang Tran, Daniel Savin, Robert McKenna, and Gail Fanucci
- 248<sup>th</sup> ACS National Meeting and Exposition, San Francisco, CA 2014  
Targeting Higher Magnetization Reversal Barriers for Mn/Ln Single-molecule Magnet Clusters from the Use of Methyl pyridine-2-yl ketone oxime  
**Linh Pham**, Khalil A. Abboud, and George Christou.
- 245<sup>th</sup> ACS National Meeting and Exposition, New Orleans, LA 2013  
Structural and Magnetic Characterization of Mn/Ln (Ln = Gd, Tb, Dy, Ho) Single-Molecule Magnets Clusters From the Use of 2-(hydroxymethyl)pyridine and its Bulkier Derivatives.  
**Linh Pham**, Khalil A. Abboud, Wolfgang Wernsdorfer and George Christou.
- Current Trends in Nanoscale and Molecular Magnetism (CTMNM), Florida, US 2010  
New Manganese Single-Molecule Magnets From The Use of 2-(hydroxymethyl)pyridine Derivatives with Bulky Substituents  
**Linh Pham**, Taketo Taguchi, Khalil A. Abboud and George Christou.
- International Workshop on Photonics and Applications, Vung Tau, Vietnam 2008  
Effects of the ZnS shell thickness and the temperature on the photoluminescence decay in CdSe/ZnS quantum dots.  
Pham Thu Nga, Nguyen Xuan Nghia, Vu Duc Chinh, **Pham Thuy Linh**, Dinh Hung Cuong, Vu Thi Hong Hanh, Vu Thi Bich, C. Barthou, C. Vion, P. Benalloul, A. Maitre.
- ASEAN Workshop on Advanced Materials Science and Nanotechnology, Nha Trang, Vietnam 2008  
Luminescence properties of II/VI semiconductor colloidal nanocrystals at collective and single scale.  
Céline Vion, Carlos Barthou, Laurent Coolen, Paul Benalloul, Vu Duc Chinh, **Pham Thuy Linh**, Vu Thi Bich, Pham Thu Nga, Agnès Maitre.
- International Workshop on Nanotechnology and Application (IWNA), Vungtau, Vietnam 2007  
Temperature effects on the photoluminescence properties of colloidal CdSe/ZnS core/shell quantum dots.  
Céline Vion, Carlos Barthou, Laurent Coolen, Paul Benalloul, Vu Duc Chinh, **Pham Thuy Linh**, Vu Thi Bich, Pham Thu Nga, Agnès Maitre.
- International Conference on Nanoscience and Nanotechnology, Beijing, China 2007  
Preparation and Spectroscopic Investigation of CdS/CdSe/CdS Quantum-Dot Quantum-Well Heterostructure.  
Le Ba Hai, Nguyen Xuan Nghia, Pham Thu Nga, Vu Duc Chinh, **Pham Thuy Linh**, Nguyen Thi Thu Trang.
- The 10<sup>th</sup> German- Vietnamese Seminar on Physics and Technology (GVS10), Bonn, Germany 2007  
Synthesis and optical properties of collodial CdS/CdSe/CdS quantum wells.  
Le Ba Hai, Nguyen Xuan Nghia, Pham Thu Nga, Vu Duc Chinh, **Pham Thuy Linh**, Nguyen Thi Thu Trang.

- The 3<sup>rd</sup> International Workshop on Nanophysics and Nanotechnology, Halong, Vietnam 2006  
Optical properties of colloidal CdS/CdSe/CdS nanostructures.  
Nguyen Xuan Nghia, Le Ba Hai, Chu Viet Ha, **Pham Thuy Linh**, Vu Duc Chinh, Pham Thu Nga.

#### Regional Conferences

- Pathways Annual Symposium – Texas A&M University System 2019  
Qualitative Analysis of Glyphosate in Home-Distilled and Commercial Liquors through Enzyme-Linked Immunosorbent Assay  
Rena Gosnell, **Linh Pham**, and Coady Lapierre
- 121<sup>st</sup> Texas Academy of Science Annual Meeting, Brownwood, TX 2019  
Multi-Dimensional Analysis of Home-Distilled Liquors  
Andrew Rhiner, Randy Stonerod II, Coady Lapierre, and **Linh Pham**
- Pathways Annual Symposium – Texas A&M University System 2018  
Quantitative Analysis of Methanol in Home-Distilled Alcohol  
Andrew Rhiner, Randy Stonerod II, Coady Lapierre, and **Linh Pham**
- Pathways Annual Symposium – Texas A&M University System 2018  
Characterization of Lead and Copper Content in Texas Home-Distilled Alcohol Using Flame Absorption Spectroscopy  
Randy Stonerod, John Barber, Coady Lapierre, and **Linh Pham**
- 121<sup>st</sup> Texas Academy of Science Annual Meeting, Midland, TX 2018  
Characterization of Texas Home Distilled Alcohol Using Flame Atomic Spectroscopy  
John Barber, Randy Stonerod II, Coady Lapierre, and **Linh Pham**
- Florida Inorganic and Material Symposium (FIMS) 2014  
A New Family of Mn<sup>III</sup>In<sup>III</sup><sub>4</sub> Manganese-Lanthanide Single-Molecule Magnets from the Use of 8-Hydroxyquinoline  
Tomasz Andraka\*, **Linh Pham**, Khalil A. Abboud and George Christou.  
\*Undergraduate student
- Florida Annual Meeting and Exposition (FAME) 2013  
A Family of Mn<sub>8</sub>Ln<sub>4</sub> (Ln = Gd, Tb, Dy, Ho) Single-Molecule Magnets from the Use of 2-(Hydroxymethyl)pyridine, and Comparison with the Products from Bulkier Chelates.  
**Linh Pham**, Wolfgang Wernsdorfer, Khalil A. Abboud and George Christou.
- Florida Annual Meeting and Exposition (FAME) 2012  
A New Family of Mn<sub>8</sub>Ln<sub>4</sub> (Ln = Gd, Tb, Dy, Ho) and Mn<sub>8</sub>Y<sub>4</sub> Single-Molecule Magnets from the Use of 2-(Pyridine-2-yl)propan-2-ol.  
**Linh Pham**, Maria Ghicas, Khalil A. Abboud and George Christou.
- Florida Annual Meeting and Exposition (FAME) 2011  
Structural, Magnetic Properties and MagPack Simulation of a New Fe<sub>4</sub>Ln<sub>2</sub> Hybrid Single-Molecule Magnets (Ln = Gd, Tb, Dy, Ho).  
**Linh Pham**, Wolfgang Wernsdorfer, Khalil A. Abboud and George Christou.

#### Invited, Non-Conferences

- Science & Sangria, Invited Talk, Centex Planeteers and TAMUCT, Killeen, Texas 2019  
Understanding HIV – Linh Pham
- American Democracy Project Lecture Series, Invited Talk, TAMUCT, Killeen, Texas 2016  
HIV/AIDS: A Disease of Inequality – Linh Pham

### GRANTS

#### Competitive National

- HIS/MSI/STEM Bridge Program. Co-PI and STEM Representative \$2,950,120 Not funded
- National Science Foundation and Industry & University Cooperative Research Center # 1624539. Big Data and PV Characterization Use for LED/Solar Microsystems. (Co-PIs) \$50,000 2017

#### Competitive Internal

- TAMUCT Writing Advocate Grant. (PI) \$2000 2019



▪ TAMUCT Research Innovation Grant. (PI)	\$2000	2017
▪ TAMUCT College of Arts and Science Research Grant. (PI)	\$4600	2016
▪ TAMUCT Service-Learning Grant. (PI)	\$1000	2016

## AWARDS

### Competitive National

▪ CIBA Young Scientist Award. American Chemical Society	\$1000	2017
▪ Travel Award. American Chemical Society	\$500	2014
▪ Outstanding Young Researcher Award. The Vallet Foundation	\$1000	2008

### Competitive Internal

▪ Faculty/Staff Outstanding Quantitative Award, Texas A&M University-Central Texas	\$2000	2021
▪ Faculty Senate Summit Scholarship, Texas A&M University-Central Texas	\$400	2021 - 2022
▪ Bill Yowell Junior Faculty Fellowship Award, Texas A&M University-Central Texas	\$9000	2019 - 2021
▪ Finalist, Faculty/Staff Outstanding Quantitative Award, Texas A&M University-Central Texas		2019, 2020
▪ R.E.C.K.E.D Award for Excellence, Creativity, Knowledge, and Engaging Diversity. Texas A&M University-Central Texas		2018
▪ Service-Learning Fellow. Texas A&M University-Central Texas	\$500	2016
▪ Best Teaching Award. Chemistry Department, University of Florida		2014
▪ Outstanding Teaching Award. Chemistry Department, University of Florida		2011 - 2012
▪ Graduate Student Council Travel Award. University of Florida	\$600	2013 - 2014
▪ 3 <sup>rd</sup> place Graduate Poster Award. Florida Annual Meeting and Exposition, Tampa, FL		2012
▪ Grinter Award. University of Florida	\$3000	2009 - 2011
▪ 2 <sup>nd</sup> place Graduate Poster Award. Florida Annual Meeting and Exposition, Tampa, FL		2010

## UNDERGRADUATE RESEARCH

**Undergraduate Mentoring Experience, Texas A&M University – Central Texas** 2016 - Present

- Mentored 15 undergraduate students to conduct independent studies
- Resulted in:
  - ✓ One manuscript under preparation: Linh Pham, Coady Lapierre, Catherine Pena, Laura Weiser-Erlandson, Randy Stonerod II, Andrew Rhiner, John Barber, and Renae Gosnell. *Multi-dimensional Characterization of Texas Home-distilled Alcohol Using Flame Atomic Spectroscopy, Gas Chromatography and Enzyme-Linked Immunosorbent Assay*
  - ✓ 1<sup>st</sup> place “Best poster in Chemistry and Biochemistry” award at TAS meeting
  - ✓ 2<sup>nd</sup> place “Overall in the Undergraduate Poster Section” award at TAS meeting
  - ✓ Five student poster presentations at regional conferences

**Undergraduate Mentoring Experience, University of Florida** 2013 – 2015

- Mentored three undergraduate students to conduct research on the synthesis and characterization techniques of heterometallic Mn-Ln single molecule magnets.
- Resulted in poster presentations at:
  - ✓ 2014 Florida Annual Meeting and Exposition conference (FAME)
  - ✓ 2014 Florida Inorganic and Materials Symposium (FIMS)

**Graduate Mentoring Experience, University of Florida** 2011 – 2013

- Mentored a master student to design the chemical synthesis system and characterization techniques for heterometallic Fe-Ln single molecule magnets.
- Resulted in:
  - ✓ One poster presentation at the 2012 Florida Annual Meeting and Exposition (FAME) conference.
  - ✓ 3<sup>rd</sup> place poster award in the graduate student competition

## COMMITTEES AND SERVICE

### University Committees

▪ University Academic Council	Member	2021 - 2023
▪ Faculty Senate	Member	2020 - 2022
▪ Faculty Affairs Committee	Member	2020 - 2022
▪ Institutional Biosafety Committee (IBC)	Vice Chair	2019 - Present
▪ University Curriculum Committee (UCC)	Member	2016 - 2020
▪ Service-Learning Advisory Board	Member	2016 - Present
▪ Environmental Health and Safety Council	Member	2015 - Present
▪ Chancellor's Research Initiatives Purchase Planning	Member	2015 - 2018
▪ TAMUCT Heritage Hall Planning Committee	Member	2015 - 2018
▪ Faculty and Staff Holiday Party	Member	2015

### College & Department Committees

▪ Post-tenure Review Committee	Member	2022
▪ DRUMR Summer Internship Committee	Member	2022
▪ Warrior Transfer Days	Member	2016 - Present
▪ Biology Tenure-track Faculty Search	Member	2021
▪ Biology Laboratory Assistant Search	Member	2020
▪ Biology Laboratory Coordinator I Position Search	Chair	2019
▪ Biology Laboratory Coordinator I Position Search	Member	2017
▪ Research Faculty Position Search	Member	2016
▪ Biology Adjunct Professor Search	Member	2016 - Present

### Professional Service

▪ TC/AMCT Transfer Pathway Meeting	Member	2019
▪ Austin Community College Partnership Summit	Member	2018
▪ Community Agency Networking Summit	Member	2018
▪ Organizing Committee - Florida Inorganic and Materials Symposium (FIMS)	Co-chair	2013
▪ Judge Committee - UF Graduate Student Research Symposium	Member	2013 - 2014
▪ Organizing Committee - Molecular Mania Chemistry Day at Oak Mall, Gainesville, Florida	Co-chair	2010 - 2014

## CERTIFICATES AND SKILLS

### Certificates

▪ Certificate of Completion for Collaborative Training Initiative, CITI Program	2019
▪ Certificate of Completion for Institutional Biosafety Committee Member Training, CITI Program	2019
▪ Certificate of Completion for Managing Conflict in the Classroom, Texas A&M University – Central Texas	2019
▪ Certificate in Effective Use of Technology in Teaching, University of Florida	2013
▪ Certificate in Effective Teaching, University of Florida	2011

### Experimental Techniques:

- Atomic Absorption Spectroscopy (AAS)
- Circular Dichroism (CD)
- Differential Scanning Calorimetry (DSC)
- Differential Scanning Fluorimetry (DSF)
- Dynamic Light Scattering (DLS)

- Electrochemistry
- Electron Paramagnetic Resonance (EPR)
- Gas Chromatography-Mass Spectrometry (GC-MS)
- High Performance Liquid Chromatography (HPLC)
- Infrared Spectroscopy (IR)
- Nuclear Magnetic Resonance Spectroscopy (NMR)
- Photoluminescence Excitation Spectroscopy (PL)
- Real-time Polymerase Chain Reactor (RT-PCR)
- Scanning Electron Microscopy (SEM)
- Single-Crystal X-ray Crystallography
- Superconducting quantum interference device (SQUID)

**Computational Techniques:** Lab Solutions, Sigma Plot, MagPack, Shelxtl, Magnet, AutoCad, Origin, Diamond, Mercury, BioRender, GraphPad, and Omnic.