Jeff Lengyel

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Materials scientist experienced with the design, synthesis, and characterization of molecule-based crystalline solids related to upcoming energy applications. Possess a strong desire to interface with data scientists to accelerate the discovery and development of new materials.

Technical Skills

- Inert atmosphere synthetic techniques
- Single-crystal and powder x-ray crystallography (XRD)
- SQUID magnetometry
- Dielectric property measurements
- Differential scanning calorimetry (DSC) and thermogravimetric analysis (TGA)
- Routine infrared and UV-vis spectroscopy
- Standard laboratory and chemical safety
- Data analysis with OriginLab
- Python (Basic)
- English (Native) and French (Basic)

Experience

Research Assistant
Florida State University
2013 – 2018

- Designed, synthesized, and characterized molecule-based materials with the goal of coupling dielectric and magnetic properties.
- Collaborated internally and externally to produce three publications in the journals *Inorganic Chemistry* and *Dalton Transactions*.
- Assisted supervisor in securing research funding totaling over $250,000 from the National Science Foundation (NSF) and Florida State University (FSU).
- Mentored and supervised undergraduate and high school students participating in independent research.
- Presented complex information to audiences with varied backgrounds.
- Maintained a shared single-crystal diffractometer.

Experience Continued

Teaching Assistant
Florida State University
2013 – 2016

- Taught theoretical chemistry concepts and laboratory techniques to undergraduate students.

Research Assistant
Kent State University
2009 – 2013

- Discovered two low-coordinate, transition-metal complexes utilizing glovebox synthesis techniques and single-crystal XRD.
- Secured three months of funding from the research experience for undergraduates (REU) program sponsored by the NSF.

Education

Materials Science (Ph.D.)
Florida State University

- ABD, expected graduation Summer Semester 2018.

Chemistry (B.S.)
Kent State University

- Authored a thesis, *The Synthesis, Characterization, and Reactivity of Low-Coordinate, Metal Amides*.
- Awarded scholarships from the Honors College and Choose Ohio First for academic achievement.