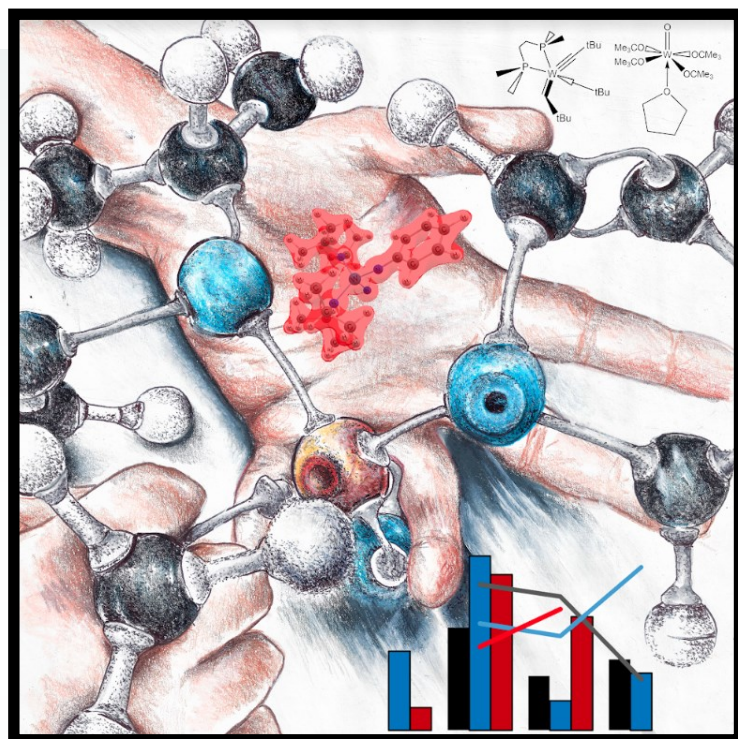


Why Computational Chemistry is Cool

Chemistry Visiting Assistant Professor Candidate

Fri, April 14
3:00 pm
RNS 310
Donuts will be provided


Chemistry Seminar



Dr. Moulder does a lot of outreach with middle school to high school students and will incorporate these topics into her talk.

Biographical Sketch

- Education
 - Associates of Liberal Sciences, DCCCD 2013
 - Credits for Ass. of Fine Arts, DCCCD 2013
 - BS Chemistry, UNT 2017
 - BS Math, Minor Philosophy, UNT 2017
 - PhD Theoretical Inorganic Chemistry, 2021
 - Under Tom Cundari, Regents Prof. UNT



Catherine A. Moulder
PhD Candidate - Inorganic Chemistry
NSF - Graduate Research Fellow
Lady Adventurer

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UNT Center for Advanced Scientific Computing & Modeling
University of North Texas | Department of Chemistry
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Catherine Moulder, PhD



I am a theoretical inorganic chemist PhD with a preference for quantum mechanical modeling over molecular dynamics, yet capable of both. I am particularly good at small molecule DFT and post-HF modeling with transition states. My current work is on water modeling for spectroscopic effects using pump probe systems. I have coordinated and mentored undergraduates working on my research projects successfully and assisted them in reaching their own goals. As someone with a BS in mathematics, I have also put significant work into data analytics; determining which metrics are most appropriate and then applying them as a means of supporting my work.