

Matthew P. Grindle

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## Professional Summary

Inorganic/physical chemist with over 10 years of working experience in chemistry and biology labs. Expertise using physical measurements to inform computation.

## Experience

2019-Present **Research/Teaching Assistant**, Miami University | *Oxford, OH*

- Published research on inorganic and biochemical subjects
- Instructed 2-3 courses per week, 70 students per semester
- Mentored 20 TAs for consistent teaching of over 1100 students

2017-2019 **Fermentation Associate**, DuPont Industrial Biosciences | *Wilmington, DE*

- Collaborated with 10 technicians to research using 20L fermenters
- Developed SOPs for contamination tracking and lab hygiene
- Conducted on-call upkeep and troubleshooting SCADA systems

2016-2017 **Analyst**, Bioanalytical Systems, Inc | *West Lafayette, IN*

- Completed GLP laboratory testing of pharmaceuticals
- Maintained 12 Agilent chromatography systems
- cGMP scribe for rat toxicology

2014-2016 **Microbiologist**, Tate & Lyle | *West Lafayette, IN*

- Conducted quality analysis of starch, syrup, and dried sugar
- Developed accurate sampling locations for environmental testing

## Skills

NMR | EPR | Crystallography | Inorganic Synthesis | X-ray Diffraction  
Matlab | Python | DFT | Linux | Bash | Molecular Dynamics | Slurm

## Education

2024 **Doctor of Philosophy, Chemistry** | Miami University | *Oxford, OH*

2016 **Bachelor of Science, Chemistry** | Purdue University | *West Lafayette, IN*

## Publications

2023 *Field- and Temperature-Dependent PRE in Co(II) Tpm*

2021 *Struct Comm between the E. Coli Chaperones DnaK and Hsp90*

## Awards and Recognition

2022 **3-Minute Thesis Finalist** | Miami University

2021-2022 **Outstanding Teaching Assistant** | Miami University