

EDUCATION	California Institute of Technology , Pasadena, CA Unweighted GPA : 3.96 BS ; Chemistry	June 2024 (expected)
TECHNICAL SKILLS	Programming Languages : Python with Numpy (intermediate) and PySCF (beginner), L^AT_EX (Advanced), Mathematica (beginner), and C (beginner) High Performance Computing : QM with Jaguar (beginner) and periodic QM with VASP (intermediate)	
RELEVANT EXPERIENCE	<i>Research Fellow</i> California Institute of Technology — Work on personal theoretical chemistry project advised by Prof. Garnet Chan — Implement Full CI (https://github.com/pkozlows/fci)	November 2022 - Present
	<i>Teaching Assistant</i> California Institute of Technology — Worked 9 hours/week as a TA for chemistry introductory QM course — Apart from grading responsibilities, held weekly recitations and office hours	October 2020 - December 2020
	<i>John Stauffer Summer Undergraduate Research Fellow</i> California Institute of Technology — Used quantum chemistry methods to run simulations with Prof. Garnet Chan — Computed surface energies of platinum using coupled-cluster theory — Application to the development of heterogenous catalysts for sustainable chemical production — <i>Publications and Presentations</i> — Kozlowski, P. T. 2021. " Elucidating Catalysis with the "Gold Standard" of Quantum Chemistry ". Caltech Undergraduate Research Journal, 21 (1). — Kozlowski, P. 2020. "Elucidating Catalysis with the "Gold Standard" of Quantum Chemistry". Oral session presented virtually at Annual Caltech Fall SURF Seminar Day, October 17.	June 2020 - September 2020
	<i>John Stauffer Summer Undergraduate Research Fellow</i> California Institute of Technology — Conducted physical inorganic chemistry research with Prof. Ryan Hadt — Developed a computational model for spin-phonon coupling in Co(III) coordination complexes — Application to transition metal complexes used in photocatalysis and quantum informatics — <i>Publications and Presentations</i> — Kozlowski, P. 2019. "Spin-Phonon Coupling in Transition Metal Complexes." Oral session presented at Annual Caltech Fall SURF Seminar Day , October 19, Pasadena, CA. — Higdon, N. J., A. T. Barth, P.T. Kozlowski, and R. G. Hadt. 2020. " Spin-Phonon Coupling and Dynamic Zero-Field Splitting Contributions to Spin Conversion Processes in Iron(II) Complexes ." Journal of Chemical Physics, 152 (20), 204306.	June 2019 - September 2019
SCHOLARSHIPS AND AWARDS	— Goldwater Scholar in Mathematics, Science, and Engineering — Polish National Alliance Scholarship — Perpall Speaking Competition Semifinalist, California Institute of Technology — John Kopczynski Scholarship , Polish University Club of Los Angeles — Richard Gorecki Scholarship , Polish American Congress	2021 2020, 2021 2020 2019, 2020 2020

OTHER
EXPERIENCE

Student-Faculty Conference Committee Member

October 2020 - January 2021

California Institute of Technology

- Published an online survey to get feedback from students on the chemistry major
- Discussed proposed curriculum changes with faculty

Social Director

October 2019 - December 2020

Caltech Chemistry Club, Pasadena, CA

- Organized monthly professional, community outreach, and social events
- Recruited a distinguished chemical researcher for the club's annual speaker event

Volunteer

June 2019 - July 2020

California Institute of Technology

- Held weekly tutoring sessions for the [Caltech Y's RISE Program](#)
- Prepared underprivileged high school students for their STEM classes and the SAT

Athlete

January 2014 - December 2020

California Institute of Technology

- Started for [Caltech's NCAA intercollegiate tennis team](#) (ranked in the Top 25)

LANGUAGES

Polish : Fluent