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