

PATRYK KOZŁOWSKI

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EDUCATION

Harvard University — PhD Candidate, Chemistry & Chemical Biology
Expected June 2029

California Institute of Technology — BS in Chemistry
GPA: 3.74 • *June 2024*

RESEARCH EXPERIENCE

Harvard University — Research Fellow (Advisor: Joonho Lee)

2024–Present

Developing Green's function and open-quantum-system methods for periodic quantum chemistry.

Caltech — Senior Thesis Research Fellow (Advisor: Garnet Chan)

2023–2024

Implemented GW methods for molecules; presented at Caltech Senior Thesis and Goldwater Symposia.

Caltech — Research Fellow (Advisor: Garnet Chan)

2022–2023

Developed and optimized Full Configuration Interaction (FCI) code for hydrogen chain systems.

Caltech — John Stauffer SURF Fellow (Advisor: Garnet Chan)

2020

Computed platinum surface energies using coupled-cluster theory; presented at SURF Seminar Day; article in *Caltech Undergraduate Research Journal (CURJ)*.

Caltech — John Stauffer SURF Fellow (Advisor: Ryan Hadt)

2019

Developed model of spin–phonon coupling in Co(III) complexes; co-author on *Journal of Chemical Physics* publication.

TEACHING & SCIENCE ENGAGEMENT

Harvard Energy Journal Club — Member

2024–Present

Present on and discuss decarbonization topics.

Harvard University — Teaching Fellow, Physical Sciences 11

2025

Led weekly discussion sections and office hours for introductory physical sciences course.

Caltech Undergraduate Research Journal (CURJ) — Associate Editor

2023–2024

Edited article on nonlinear spectroscopy of cuprates.

Caltech — Teaching Assistant, Intro Quantum Mechanics

2020

Held recitations and office hours during remote instruction in the COVID-19 pandemic.

Caltech Student-Faculty Conference — Committee Member

2020–2021

Designed and analyzed student survey; collaborated with faculty to propose curriculum changes.

Caltech Chemistry Club — Social Director

2019–2020

Organized departmental events and invited external speakers.

Caltech RISE Program — Volunteer Tutor

2019–2020

Tutored underserved high-school students in SAT preparation.

AWARDS & HONORS

Paul & Daisy Soros Fellow (2025)

NSF Graduate Research Fellow (2025)

Goldwater Scholar (2021)

ACS Undergraduate Award in Physical Chemistry (2024)

Perpall Speaking Competition Semifinalist (2020)

NCAA ITA Scholar-Athlete (2019, 2020)

Polish National Alliance Scholarship (2020, 2021, 2023)

John Kopczynski Scholarship (2019, 2020, 2023)

Richard Gorecki Scholarship (2020, 2023)

National Merit Scholar (2018–2020, 2023)

OTHER EXPERIENCE

Talon Voice - Community Member

2022–Present

Active participant in the hands-free coding community with contributions to enabling voice-coding of LaTeX and integrating dictation with LLM tools.

Caltech Tennis - Student-Athlete

2018–2020

Member of Top-25 nationally ranked team.

LANGUAGES

Polish — Fluent

