

# Evan Spotte-Smith

(they/them/their)

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## Education

- 2023 **Doctor of Philosophy (Ph.D.)**, *University of California — Berkeley (UC Berkeley)*,  
**Program:** Materials Science and Engineering  
**Advisor:** Prof. Kristin A. Persson  
**Thesis:** “On the Exploration of Electrochemical Reaction Cascades”
- 2021 **Master of Science (M.S.)**, *UC Berkeley*,  
**Program:** Materials Science and Engineering
- 2019 **Bachelor of Science (B.S.)**, *Columbia University*,  
**Program:** Materials Science and Engineering  
**Minor:** Sustainable Engineering

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## Research Experience

- 2025 – **Ad Astra Fellow/Assistant Professor of Digital Chemistry**, *University College Dublin*
- 2025 – **Adjunct Professor of Chemical Engineering**, *Carnegie Mellon University (CMU)*
- 2024 – 2025 **Carnegie Bosch Institute Fellow**, *CMU*,  
**Advisor:** Prof. Rachel C. Kurchin
- 2024 **Carnegie Bosch Institute Fellow**, *CMU*,  
**Advisor:** Prof. Gabriel dos Passos Gomes
- 2019 – 2023 **Graduate Student Researcher**, *Lawrence Berkeley National Laboratory (LBNL)*,  
**Advisor:** Prof. Kristin A. Persson
- 2023 **Cell Modeling Intern**, *Tesla Motors*
- 2018 – 2019 **Undergraduate Student Researcher**, *LBNL*,  
**Advisor:** Dr. Anubhav Jain, Dr. Ravi Prasher
- 2016 – 2019 **Lead Undergraduate Researcher**, *Columbia University*,  
**Advisor:** Prof. Irving P. Herman

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## Teaching Experience

- Fall 2024 **Guest Lecturer**, *CMU*, “Data Science in the Chemical Sciences”
- Spring 2022 **Graduate Student Instructor**, *UC Berkeley*, General Chemistry & Quantitative Analysis  
**Evaluation:** median 7.0/7.0; mean 6.5/7.0
- 2020 **Instructor**, *Materials Project Workshop*, “[Pymatgen Foundations](#)”
- Fall 2018 **Teaching Assistant**, *Columbia University*, Thermodynamics, Kinetic Theory, and Statistical Mechanics

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## Mentoring

- 2025 – **Punna Amornvivat**,  
**Project:** Methods for machine learning on chemical reaction network hypergraphs
- 2025 – **Raphael Stone**,  
**Project:** Unsupervised material phase identification
- 2024 – **Andrew Timmins**,  
**Project:** Accelerated simulations of solid-state nucleation and phase transformations

- 2025 **Katherine (Kitty) Pierre-Louis,**  
**Project:** Oxidative electrolyte decomposition in Na-ion batteries
- 2025 **Vanshika Singh,**  
**Project:** Simulations of metal-mediated electrochemical ammonia synthesis
- 2024 – 2025 **Shreya Pagaria,**  
**Project:** Unsupervised phase identification from molecular dynamics simulations
- 2022 – 2023 **Laura Zichi,**  
**Project:** Developing tools to simulate reactivity at dynamic fluid-solid interfaces
- 2021 – 2022 **Thea Bee Petrocelli,**  
**Project:** First-principles explanations of electrolyte reactivity in Li-ion batteries
- 2021 – 2022 **Nikita Redkar,**  
**Project:** Learning electrochemical reaction products using natural language processing
- 2020 – 2022 **Aniruddh Khanwale,**  
**Project:** Calculation of charge transfer rates through battery interphases
- 2020 – 2022 **Ronald Kam,**  
**Project:** Kinetic modeling of Li-ion battery solid-electrolyte interphase formation

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## Resources & Funding

- 2024 – 2026 **Synthesis Advanced Research Challenge, Toyota Research Institute,**  
**Project:** Direct Introduction of Competition and Kinetics to Materials Mechanism and Reaction Network Prediction  
**Award type:** Funding  
**Role:** PI  
**Total award amount:** \$500,000
- 2025 – 2026 **National Artificial Intelligence Research Resource (NAIRR) Pilot,**  
**Project:** Leveraging Machine Learned Interatomic Potentials to Predict Materials Synthesis Routes  
**Award type:** High-performance computing allocation  
**Role:** PI  
**Total award amount:** 17,500 GPU-hours; 380,000 CPU-hours
- 2024 – 2025 **Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support (ACCESS), National Science Foundation,**  
**Project:** Rational Design of Electrolytes for Ammonia Synthesis Using Machine-Learned Potentials  
**Award type:** High-performance computing allocation  
**Role:** PI  
**Total award amount:** 750,000 ACCESS credits
- 2020 – 2024 **Schrödinger, Inc.,**  
**Award type:** Partnership  
**Role:** Initiated partnership, lead point of contact  
**Total award amount:** In kind, valued at \$5,517,000
- 2021 – 2024 **High-Performance Computing, National Renewable Energy Laboratory,**  
**Project:** Integrated Modeling and Machine Learning of Solid-Electrolyte Interface Reactions of the Si Anode  
**Award type:** High-performance computing allocation  
**Role:** Contributor  
**Total award amount:** 6,884,000 node-hours
- 2020 – 2023 **Energy Research Computing Allocations Process, National Energy Research Supercomputing Center,**  
**Award type:** High-performance computing allocation

**Role:** Contributor

**Total award amount:** 325,000 node-hours

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## Honors & Awards

- 2025 **Outstanding Reviewer**, Institute of Physics
- 2024 **Carnegie Bosch Institute Fellowship**, CMU
- 2024 **President's Postdoctoral Fellowship**, CMU (declined)
- 2024 **Pre-Faculty Workshop**, NextProf Nexus
- 2023 **1st Prize**, Winton-Kavli Research Pitch Competition
- 2023 **1st Prize**, Innovation Expo, Berkeley Energy & Resource Collaborative Energy Summit
- 2023 **Battery Student Slam Winner**, 241st Electrochemical Society Meeting
- 2022 **Philomathia Graduate Student Fellowship**, Kavli Energy NanoScience Institute
- 2020 **Honorable Mention**, NSF Graduate Research Fellowship Program
- 2019 **Honorable Mention**, NSF Graduate Research Fellowship Program
- 2019 **Frank McQuiston Fellowship**, UC Berkeley Department of Materials Science & Engineering
- 2019 **Clarendon Fund Scholarship**, University of Oxford (declined)
- 2019 **Magna Cum Laude**, Columbia University
- 2019 **Tau Beta Pi New York Alpha Chapter**
- 2019 **Francis B. F. Rhodes Prize**, Columbia University
- 2019 **King's Crown Leadership Excellence Award for Civic Responsibility**, Columbia University

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## Peer-Reviewed Publications

- (1) Spotte-Smith, E. W. C. Considering the Ethics of Large Machine Learning Models in the Chemical Sciences. *Machine Learning: Science and Technology (in press)* **2025**
- (2) Horton, M. K.; Huck, P.; Yang, R. X.; Munro, J. M.; Dwaraknath, S.; Ganose, A. M.; Kingsbury, R. S.; Wen, M.; Shen, J.-X.; Mathis, T. S.; Kaplan, A. D.; Berket, K.; Riebesell, J.; George, J.; Rosen, A. S.; Spotte-Smith, E. W. C.; McDermott, M. J.; Cohen, O. A.; Dunn, A.; Kuner, M.; Rignanese, G.-M.; Hautier, G.; Petretto, G.; Waroquiers, D.; Griffin, S. M.; Neaton, J. B.; Chrzan, D. C.; Asta, M.; Cholia, S.; Ceder, G.; Ong, S. P.; Jain, A.; Persson, K. A. Accelerated Data-Driven Materials Science with the Materials Project. *Nature Materials (in press)* **2025**
- (3) Guha\*, R. D.; Vargas\*, S.; Spotte-Smith, E. W. C.; Epstein, A. R.; Venetos, M.; Kingsbury, R.; Wen, M.; Blau, S. M.; Persson, K. A. HEPOM: Using Graph Neural Networks for the Accelerated Predictions of Hydrolysis Free Energies in Different pH Conditions. *Journal of Chemical Information and Modeling* **2025**
- (4) Zichi\*, L.; Barter\*, D.; Sivonxay\*, E.; Spotte-Smith, E. W. C.; Srinivaas, M. R.; ; Chan, E.; Persson, K. A.; Blau, S. M. RNMC: Kinetic Monte Carlo Implementations for Complex Reaction Networks. *The Journal of Open Source Software* **2024**, 9 (104), 7244
- (5) Soto, M.; Fink, K.; Zweifel, C.; Weddle, P. J.; Spotte-Smith, E. W. C.; Veith, G.; Persson, K. A.; Colclasure, A. M.; Villers, B. J. Tremolet de. Solubilities of Ethylene and Carbon Dioxide Gases in Lithium-Ion Battery Electrolyte. *Journal of Chemical & Engineering Data* **2024**, 69 (6), 2236–2243
- (6) Leon, N. J.; Illic, S.; Xie, X.; Jeong, H.; Yang, Z.; Wang, B.; Spotte-Smith, E. W. C.; Stern, C.; Hahn, N.; Zavadil, K.; Cheng, L.; Persson, K.; Connell, J.; Liao, C. Design Principles

and Routes for Calcium Alkoxyaluminate Electrolytes. *The Journal of Physical Chemistry Letters* **2024**, 15 (19), 5096–5102

- (7) Vijay, S.; Venetos, M.; Spotte-Smith, E. W. C.; Kaplan, A.; Wen, M.; Persson, K. A. CoeffNet: Predicting Activation Barriers Through a Constrained, Equivariant and Chemically-Interpretable Graph Neural Network. *Chemical Science* **2024**, 15 (8), 2923–2936
- (8) Spotte-Smith\*, E. W. C.; Vijay\*, S.; Petrocelli, T. B.; Rinkel, B. L. D.; McCloskey, B. D.; Persson, K. A. A Critical Analysis of Chemical and Electrochemical Oxidation Mechanisms in Li-Ion Batteries. *The Journal of Physical Chemistry Letters* **2024**, 15 (2), 391–400
- (9) Guha\*, R. D.; Vargas\*, S.; Spotte-Smith, E. W. C.; Epstein, A. R.; Venetos, M.; Wen, M.; Kingsbury, R.; Blau, S. M.; Persson, K. A. HEPOM: A Predictive Framework for Accelerated Hydrolysis Energy Predictions of Organic Molecules. *NeurIPS AI4Mat* **2023**
- (10) Spotte-Smith, E. W. C.; Cohen, O. A.; Blau, S. M.; Munro, J. M.; Yang, R.; Guha, R. D.; Patel, H. D.; Vijay, S.; Huck, P.; Kingsbury, R.; Horton, M. K.; Persson, K. A. A Database of Molecular Properties Integrated in the Materials Project. *Digital Discovery* **2023**, 2 (6), 1862–1882
- (11) Weddle, P. J.; Spotte-Smith, E. W. C.; Verma, A.; Patel, H. D.; Fink, K.; Villers, B. J. Tremolet de; Schulze, M. C.; Blau, S. M.; Smith, K. A.; Persson, K. A.; Colclasure, A. M. Continuum-Level Modeling of Li-Ion Battery SEI by Upscaling Atomistically Informed Reaction Mechanisms. *Electrochimica Acta* **2023**, 468 (143121)
- (12) Spotte-Smith, E. W. C.; Blau, S. M.; Barter, D.; Leon, N. J.; Hahn, N. T.; Redkar, N. S.; Zavadil, K. R.; Liao, C.; Persson, K. A. Chemical Reaction Networks Explain Gas Evolution Mechanisms in Mg-Ion Batteries. *Journal of the American Chemical Society* **2023**, 145 (22), 12181–12192
- (13) Spotte-Smith\*, E. W. C.; Epstein\*, A. R.; Venetos, M.; Andriuc, O.; Persson, K. A. Assessing the Accuracy of Density Functional Approximations for Predicting Hydrolysis Reaction Kinetics. *Journal of Chemical Theory and Computation* **2023**, 19 (11), 3159–3171
- (14) Wen, M.; Spotte-Smith, E. W. C.; Blau, S. M.; McDermott, M. J.; Krishnapriyan, A.; Persson, K. A. Chemical Reaction Networks and Opportunities for Machine Learning. *Nature Computational Science* **2023**, 3, 12–24
- (15) Spotte-Smith\*, E. W. C.; Petrocelli\*, T. B.; Patel, H. D.; Blau, S. M.; Persson, K. A. Elementary Decomposition Mechanisms of Lithium Hexafluorophosphate in Battery Electrolytes and Interphases. *ACS Energy Letters* **2023**, 8 (1), 347–355
- (16) Spotte-Smith\*, E. W. C.; Barter\*, D.; Redkar, N. S.; Khanwale, A.; Dwaraknath, S.; Persson, K. A.; Blau, S. M. Predictive Stochastic Analysis of Massive Filter-Based Electrochemical Reaction Networks. *Digital Discovery* **2023**, 2 (123), 123–137
- (17) Xie, X.; Leon, N. J.; Small, D. W.; Spotte-Smith, E. W. C.; Liao, C.; Persson, K. A. The Reductive Decomposition Kinetics and Thermodynamics That Govern the Design of Fluorinated Alkoxyaluminate/borate Salts for Mg-Ion and Ca-Ion Batteries. *Journal of Physical Chemistry C* **2022**, 126 (49), 20773–20785
- (18) Spotte-Smith\*, E. W. C.; Kam\*, R.; Barter, D.; Xie, X.; Hou, T.; Dwaraknath, S.; Blau, S. M.; Persson, K. A. Toward a Mechanistic Model of Solid-Electrolyte Interphase Formation and Evolution in Lithium-Ion Batteries. *ACS Energy Letters* **2022**, 7, 1446–1453
- (19) Alzate-Vargas, L.; Blau, S.; Spotte-Smith, E. W. C.; Allu, S.; Persson, K. A.; Fattbert, J.-L. Insight into SEI Growth in Li-Ion Batteries Using Molecular Dynamics and Accelerated Chemical Reactions. *Journal of Physical Chemistry C* **2021**, 125 (34), 18588–18596
- (20) Xie, X.; Spotte-Smith, E. W. C.; Wen, M.; Patel, H. D.; Blau, S. M.; Persson, K. A. Data-Driven Prediction of Formation Mechanisms of Lithium Ethylene Monocarbonate with

an Automated Reaction Network. *Journal of the American Chemical Society* **2021**, 143 (33), 13245–13258

(21) Spotte-Smith\*, E. W. C.; Blau\*, S. M.; Xie, X.; Patel, H. D.; Wen, M.; Wood, B.; Dwaraknath, S.; Persson, K. A. Quantum Chemical Calculations of Lithium-Ion Battery Electrolyte and Interphase Species. *Scientific Data* **2021**, 8 (203)

(22) Blau, S. M.; Patel, H.; Spotte-Smith, E. W. C.; Xie, X.; Dwaraknath, S.; Persson, K. A. A Chemically Consistent Graph Architecture for Massive Reaction Networks Applied to Solid-Electrolyte Interphase Formation. *Chemical Science* **2021**, 12 (13), 4931–4939

(23) Wen, M.; Blau, S. M.; Spotte-Smith, E. W. C.; Dwaraknath, S.; Persson, K. A. BonDNet: A Graph Neural Network for the Prediction of Bond Dissociation Energies for Charged Molecules. *Chemical Science* **2021**, 12 (5), 1858–1868

(24) Hu, J.; Spotte-Smith, E. W. C.; Pan, B.; Garcia, R.; Colosqui, C.; Herman, I. P. Spatiotemporal Study of Iron Oxide Nanoparticle Monolayer Formation at Liquid/liquid Interfaces by Using in-Situ Small Angle X-Ray Scattering. *The Journal of Physical Chemistry C* **2020**, 124 (13), 23949–23963

(25) Spotte-Smith, E. W. C.; Yu, P.; Blau, S. M.; Jain, A.; Prasher, R. S. Aqueous Diels-Alder Reactions for Thermochemical Storage and Heat Transfer Fluids Identified Using Density Functional Theory. *Journal of Computational Chemistry* **2020**, 41 (24), 2137–2150

(26) Hu, J.; Spotte-Smith, E. W. C.; Pan, B.; Herman, I. P. Improved Small-Angle X-Ray Scattering of Nanoparticle Self-Assembly Using a Cell with a Flat Liquid Surface. *Journal of Nanoparticle Research* **2019**, 21 (4), 71

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## Other Publications

(27) Levine\*, D. S.; Shuaibi\*, M.; Spotte-Smith, E. W. C.; Taylor, M. G.; Hasyim, M. R.; Michel, K.; Batatia, I.; Csányi, G.; Dzamba, M.; Eastman, P.; Frey, N. C.; Fu, X.; Gharakhanyan, V.; Krishnapriyan, A. S.; Rackers, J. A.; Raja, S.; Rizvi, A.; Rosen, A. S.; Ulissi, Z.; Vargas, S.; Zitnick, C. L.; Blau, S. M.; Wood, B. M. The Open Molecules 2025 (Omol25) Dataset, Evaluations, And Models. *arXiv* **2025**

(28) Sivonxay, E.; Attia, L.; Spotte-Smith, E. W. C.; Sanchez-Lengeling, B.; Xia, X.; Barter, D.; Chan, E. M.; Blau, S. M. Enabling Inverse Design of Nanoparticle Photophysics via Deep Learning on Heterogeneous Graphs. *ChemRxiv (in review)* **2025**

(29) Blau\*, S.; Spotte-Smith\*, E. W. C.; Wood, B.; Dwaraknath, S.; Persson, K. Accurate, Automated Density Functional Theory for Complex Molecules Using on-the-Fly Error Correction. *ChemRxiv* **2020**

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## Presentations

(30) Spotte-Smith, E. W. C. Data-Driven Design of Reactive Technologies: Case Studies in Energy Storage. *ACS Spring Meeting* **2025**

(31) Spotte-Smith, E. W. C.; Timmins, A.; Kurchin, R. C. Mechanistic Insights into Electrolyte Decomposition during Electrochemical Ammonia Synthesis from Machine-Learning Interatomic Potentials. *ACS Spring Meeting* **2025**

(32) Spotte-Smith, E. W. C.; Timmins, A.; Kurchin, R. C. Towards Rational Design of Sustainable Technologies with Data-Enabled Reactive Simulations. *Symposium on Responsible and Sustainable AI* **2025**

(33) Spotte-Smith, E. W. C. Towards Data-Driven Analysis of Sustainable Electrochemical Reactions. *Bosch Research and Technology Center Seminar* **2025**

(34) Spotte-Smith, E. W. C. Chemical Reaction Network Machine Learning (CRN-ML): A Frontier for Reactivity Studies. *AIMED Workshop on Heterogeneous Catalysis* **2024**

- (35) Spotte-Smith, E. W. C. Datasets to Drive Practical Chemical Data Science. *Gordon Research Conference in Computational Chemistry* **2024**
- (36) Spotte-Smith, E. W. C.; Hegazy, K.; Avaylon, M.; Vargas, S.; Cohen, O. A.; Mahoney, M. W.; Perciano, T.; Persson, K. A.; Blau, S. M. Challenging Molecular Machine Learning with Datasets of Ions and Radicals. *Gordon Research Seminar in Computational Chemistry* **2024**
- (37) Spotte-Smith, E. W. C. Using Networks to Obtain Mechanistic Understanding in Electrochemistry. *Materials Science and Engineering Rising Stars Colloquium Series* **2024**
- (38) Spotte-Smith, E. W. C. Rational Design of Sustainable Chemical Solutions with Reaction Networks and Data Science. *AIChE Annual Meeting* **2023**
- (39) Spotte-Smith, E. W. C.; Blau, S. M.; Barter, D.; Leon, N. J.; Hahn, N. T.; Redkar, N. S.; Zavadil, K. R.; Liao, C.; Persson, K. A. Explaining Gas Evolution Mechanisms in Mg-Ion Batteries with Chemical Reaction Networks. *AIChE Annual Meeting* **2023**
- (40) Spotte-Smith, E. W. C.; Cohen, O.; Blau, S. M.; Munro, J. M.; Kingsbury, R.; Guha, R. D.; Patel, H. D.; Vijay, S.; Yang, R.; Huck, P.; Horton, M. K.; Persson, K. A. MPcules: An Open and Accessible Database of Molecular Properties in the Materials Project. *ACS Fall 2023 Meeting* **2023**
- (41) Spotte-Smith, E. W. C.; Petrocelli, T. B.; Patel, H. D.; Blau, S. M.; Persson, K. A. Revealing the Decomposition Mechanisms of Lithium Hexafluorophosphate in Battery Electrolytes and Interphases by First-Principles Simulations. *ACS Spring 2023 Meeting* **2023**
- (42) Spotte-Smith, E. W. C.; Barter, D.; Kam, R. L.; Liao, C.; Blau, S. M.; Persson, K. A. Explaining Battery Electrolyte Decomposition with Chemical Reaction Networks. *Berkeley Energy & Resources Collaborative Energy Summit* **2023**
- (43) Spotte-Smith, E. W. C. Leveraging Quantum Chemistry and Reaction Networks to Explore Electrochemical Cascades. *Pitzer Center for Theoretical Chemistry Seminar Series* **2022**
- (44) Spotte-Smith, E. W. C. Leveraging Big Data and Chemical Reaction Networks to Explore and Explain Electrochemistry. *ChemE Future Faculty Seminar Series* **2022**
- (45) Spotte-Smith, E. W. C.; Kam, R. L.; Barter, D.; Self, J.; Xie, X.; Hou, T.; Dwaraknath, S.; Blau, S. M.; Persson, K. A. A General Mechanistic Model of Early Solid-Electrolyte Interphase Formation in Lithium-Ion Batteries. *Gordon Research Conference in Electrochemistry* **2022**
- (46) Spotte-Smith, E. W. C.; Kam, R. L.; Barter, D.; Xie, X.; Hou, T.; Dwaraknath, S.; Blau, S. M.; Persson, K. A. Towards a Mechanistic Explanation for Solid Electrolyte Interphase Formation and Evolution in Lithium-Ion Batteries. *American Conference on Theoretical Chemistry* **2022**
- (47) Spotte-Smith, E. W. C.; Kam, R. L.; Barter, D.; Xie, X.; Hou, T.; Dwaraknath, S.; Blau, S. M.; Persson, K. A. Towards a Mechanistic Explanation for Solid Electrolyte Interphase Formation and Evolution in Lithium-Ion Batteries. *21st International Meeting on Lithium Batteries* **2022**
- (48) Spotte-Smith, E. W. C.; Kam, R. L.; Barter, D.; Self, J.; Xie, X.; Hou, T.; Dwaraknath, S.; Blau, S. M.; Persson, K. A. Towards a Mechanistic Explanation for Solid Electrolyte Interphase Formation in Lithium-Ion Batteries. *241st Electrochemical Society Meeting* **2022**
- (49) Spotte-Smith, E. W. C.; Blau, S. M.; Persson, K. A. GPS for the SEI: Charting Electrochemical Mechanisms with Reaction Networks. *241st Electrochemical Society Meeting* **2022**

- (50) Spotte-Smith, E. W. C.; Blau, S. M.; Xie, X.; Wood, B.; Patel, H.; Dwaraknath, S.; Persson, K. A. Automatic Generation of Computational Reaction Networks for Unbiased Exploration of Chemical Pathways. *MRS Spring/Fall Meeting & Exhibit* **2020**
- (51) Spotte-Smith, E. W. C.; Blau, S. M.; Wood, B.; Dwaraknath, S.; Persson, K. A. A Robust Computational Framework for High-Throughput Density Functional Theory Calculations for Electrochemical Application. *PRiME (ECS, ECSJ, & KECS Joint Meeting)* **2020**
- (52) Spotte-Smith, E. W. C.; Yu, P.; Jain, A.; Prasher, R. Identifying Diels-Alder Reactions for Aqueous Thermal Storage Using Density Functional Theory. *MRS Spring Meeting and Exhibit* **2019**

## Peer Review Experience

- 2025 *The Journal of Physical Chemistry* (x2), *Journal of Materials Chemistry A* (x2), *ACS Applied Energy Materials*, JuliaCon 2025, NAIRR Pilot (x13), European Research Council Synergy Grant, *Nature Computational Science*, *ACS Energy Letters*
- 2024 *The Journal of Open Source Software* (x2), *Scientific Data*, *Digital Discovery*, *Journal of Physics D: Applied Physics*, *Journal of Chemical Theory and Computation*, *Journal of Chemical Information and Modeling*, *Chemical Science*
- 2023 *ACS Nano*, *Journal of Chemical Information and Modeling*, *npj Computational Materials*
- 2022 *ACS Energy Letters*, *The Journal of Open Source Software*

## Organized Symposia & Workshops

- 2025 **Chemical Reaction Networks, Retrosynthesis, and Reaction Prediction**, *ACS Fall Meeting*
- 2025 **Symposium on Responsible and Sustainable AI**, *Carnegie Bosch Institute*
- 2023 **Kavli Career Development Workshop**, *UC Berkeley*

## Leadership & Service

- 2025 – **Topic Editor**, *The Journal of Open Source Software*
- 2025 – **Mentor**, *DisabledInSTEM Mentorship Program*
- 2022 – 2023 **Materials Science and Engineering Delegate**, *UC Berkeley Graduate Assembly*
- 2022 – 2023 **Vice-President**, *UC Berkeley Materials Science and Engineering Graduate Student Council*,  
**Other Roles:** Social Chair
- 2022 – 2023 **Mentor**, *CalACS College Application and Professional Support*
- 2020, 2021 **Graduate Student Representative**, *Materials Science and Engineering Faculty Search Committee*
- 2020 **Co-Director**, *Interstitials Mentorship Program*
- 2016 – 2019 **Academic Advisor**, *Columbia Educational Simulations*
- 2015 – 2019 **President**, *Columbia University Engineers Without Borders (CU-EWB)*,  
**Other Roles:** Engineering Mentor, President, Program Manager, Director of Grants, Program Liaison, Director of Operations