

SHUWEN YUE

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ACADEMIC APPOINTMENTS

Cornell University, Ithaca, NY July 2023 – Present
Assistant Professor, R. F. Smith School of Chemical and Biomolecular Engineering
Field Faculty, Materials Science and Engineering
Field Faculty, Mechanical Engineering
Field Faculty, Biological and Environmental Engineering
Faculty Fellow, Cornell Atkinson Center for Sustainability
Affiliate Faculty, Cornell AI for Science Institute

EDUCATION / TRAINING

Massachusetts Institute of Technology, Cambridge, MA 2021 – 2023
Postdoctoral Research Associate, Department of Chemical Engineering
Advisor: Heather J. Kulik

Princeton University, Princeton, NJ 2016 – 2021
Ph.D. in Chemical and Biological Engineering
Certificate in Computational Science and Engineering
Advisor: Athanassios Z. Panagiotopoulos

The University of Alabama, Tuscaloosa, AL 2012 – 2016
B.S. in Chemical Engineering and Chemistry
Minor in Mathematics and Computer-based Honors
Advisors: David A. Dixon, Jason E. Bara, Martin A. Bakker

AWARDS AND HONORS

Digital Discovery Emerging Investigator 2026

SPROUT Award, Cornell Duffield Engineering 2025, 2026

Scialog Sustainable Minerals, Metals, and Materials (SM3) Fellow and Awardee, 2024 – 2026
Research Corporation for Science Advancement (RCSA) and Alfred P. Sloan Foundation

Affinito-Stewart Grant, Cornell 2024

Cornell-NUS Global Strategic Collaboration Award, Cornell 2023

Best Poster Award, Foundations of Molecular Modeling and Simulation (FOMMS) 2022

Early Career Research Award Travel Grant, FOMMS 2022

Princeton nominee for the Schmidt Science Fellowship 2021

WIC Travel Award, The American Institute of Chemical Engineers 2020

WCC Merck Award, The American Chemical Society 2020

Best Talk in Computational Modeling, Princeton CBE Graduate Student Symposium 2019

Mary and Randall Hack '69 Graduate Award, Princeton 2019

Andlinger Center for Energy and the Environment Travel Grant, Princeton 2019

William R. Schowalter Travel Grant, Princeton 2018, 2019

School of Engineering and Applied Science Travel Grant, Princeton 2018

Francis Robbins Upton Fellowship, Princeton 2016 – 2021

Tau Beta Pi Fellowship 2016

Tau Beta Pi Scholarship 2015

Catherine J. Randall Premier Award, The University of Alabama (UA) 2016

Alexander Stanton Undergraduate Research Award, UA 2016

Outstanding Chemistry Undergraduate Research Award, UA 2016

Randall Outstanding Undergraduate Research Award, UA 2014 – 2016

PUBLICATIONS

(*=graduate student, ‡=postdoc, §=undergraduate, †=corresponding author, ¶=equal contributions)

At Cornell:

32. **Ananthanarayana, P.***, **Yue, S.†** AdaptNTK: Adaptive Uncertainty Quantification and Active Learning for Neural Network Potentials. **2026**. [[preprint](#)]
31. **Yang, C.***, **Mamun, O.‡**, **Yue, S.†** Division of Labor at Zn-Based Bimetallic Interfaces Governs Electrochemical C–N Coupling. **2026**. *Submitted*.
30. Villaescusa-Navarro, F., Bolliet, B., Villanueva-Domingo, P., Bayer, A. E., ..., **Mamun, O.‡**, **Yue, S.**, et al. The Denario Project: Modular automation of scientific research with multi-agent systems. *PRX Intelligence*. **2026**. [[link](#)]
– Featured in [Simons Foundation News](#)
29. Kim, K., **Yang, C.***, Gallagher, S. M., **Yue, S.**, Kalra, V. Direct Electrode-to-Electrode Regeneration of End-of-Life Battery via Electrode-Electrolyte Interphase Dissolution. *Energy and Environmental Science*. **2026**. [[link](#)]
– Featured in the [Cornell Chronicle](#)
28. Chu C.¶, **Hess, L. T. M.§¶**, Prasetyatama, Y. D., **Seshadri, A.***, **Yue, S.†**, Yu, I. K. M.†, Comparative investigation of microwave-assisted and conventional pyrolysis: A machine learning-based approach. *Bioresource Technology*. **2026**. 457, 134907. [[link](#)]
27. Roh, H., Bagatelle, S., **Yue, S.**, **Seshadri, A.***, Oh, C., Kulik, H. J., Gumyusenge, A. Side-Chain-Based Cross-Linking of Amorphous Iono-Electronic Conductive Polymers for Thermo-Chemical Stability in Electrochemical Devices. *ACS Applied Materials & Interfaces*. **2026**. [[link](#)]
26. **Mamun, O.‡**, **Yang, C.***, and **Yue, S.†** Deep graph kernel learning for material and atomic level uncertainty quantification in adsorption energy prediction. *Digital Discovery*. **2026**. 5, 1568–1578. [[link](#)]
25. **Seshadri, A.***, **Hess, L. T. M.§**, and **Yue, S.†** Exploring the deviation from Nernst–Einstein conductivity in ionic liquids using machine learning. *Digital Discovery*. **2026**. 5, 1709–1717.[[link](#)]
– Digital Discovery Emerging Investigator Collection
24. Ferguson, A., LaFleur, M., Ruthotto, L., Thaler, J., Ting, Y.-S., Tiwary, P., ..., **Yue, S.**, et al. The Future of Artificial Intelligence and the Mathematical and Physical Sciences (AI+MPS). **2025**. [[preprint](#)]
23. **Hess, L. T. M.§¶**, **Nguyen, N. P. T.§¶**, **Dee, A. H.§**, **Gupta, A. K.§**, **Kwon, Z.§**, and **Yue, S.†** How surface functionalization controls confined electrolyte structure and dynamics at graphene interfaces. *Journal of Physical Chemistry B*. **2025**. 129, 41, 10864–10872 [[link](#)]
– JPC-B Athanassios Z. Panagiotopoulos Festschrift
22. Schwindt, N. S., Epsztein, R., Straub, A. P., **Yue, S.**, and Shirts, M. R. Molecular details and free energy barriers of ion de-coordination at elevated salinity and pressure and their consequences for membrane separation. *Journal of Membrane Science*. **2025**. 734, 124358. [[link](#)]
21. Ball, A. K., Terrones, G. G., **Yue, S.**, and Kulik, H. J., Data-driven discovery of water-stable metal-organic frameworks with high water uptake capacity. *ACS Applied Materials & Interfaces*. **2025**. 17, 24, 35971–35985. [[link](#)]
20. Oh, C., Nandy, A., **Yue, S.**, and Kulik, H. J. MOFs with the stability for practical gas adsorption applications require new design rules. *ACS Applied Materials & Interfaces*. **2024**. 16, 41, 55541–55554. [[link](#)]

19. Burton, H., Dong, S., Ghosh, S., Gu, B., Jackson, N., Keefer, D., Lu, Y., Monroe, J., Peng, B., Pieri, E., Spackman, P., Vacher, M., Vuckovic, S., Williams-Young, D., Yang, Z., **Yue, S.**, Zerze, G., Zhu, T. Editorial: JCTC Early Career Board Selects. *Journal of Chemical Theory and Computation*. **2024**. 20, 14, 5785–5787. [\[link\]](#)
18. Terrones, G. G., Huang, S.-P., Rivera, M., **Yue, S.**, Hernandez, A., and Kulik, H. J. Metal-organic framework stability in water and harsh environments from data-driven models trained on the diverse WS24 data set. **2024**. 146, 29, 20333–20348. *Journal of the American Chemical Society*. [\[link\]](#)
17. **Yue, S.**, Nandy, A., and Kulik, H. J. Discovering molecular coordination environment trends for selective ion binding to molecular complexes using machine learning. *The Journal of Physical Chemistry B*. **2023**. 127, 49, 10592–10600. [\[link\]](#)
 - JPC-B Machine Learning in Physical Chemistry Virtual Special Issue
16. Zhang, C., **Yue, S.**, Panagiotopoulos, A. Z., Klein, M. L., and Wu, X. Why dissolving salt in water decreases its dielectric permittivity. *Physical Review Letters*. **2023**. 2304893. [\[link\]](#)
 - Featured in [Science Magazine News](#)
15. Roh, H., **Yue, S.**, Hu, H., Chen, K., Kulik, H. J., Gumyusenge, A. Leveraging polymer electrochromism for organic electrochemical synaptic devices. *Advanced Functional Materials*. **2023**. 2304893. [\[link\]](#)

Before Cornell:

14. Mathur, R., Muniz, M. C., **Yue, S.**, Car, R., and Panagiotopoulos, A. Z. First-principles-based machine learning models for phase behavior and transport properties of CO₂. *The Journal of Physical Chemistry B*. **2023**. 127, 20, 4562–4569. [\[link\]](#)
 - JPC-B Pablo G. Debenedetti Festschrift
13. Nandy, A., **Yue, S.**, Oh, C., Duan, C., Terrones, G. G., Chung, Y. G., and Kulik, H. J. A database of ultrastable MOFs reassembled from stable fragments with machine learning models. *Matter*. **2023**. 6, 5, 1585-1603. [\[link\]](#)
 - Featured in [MIT News](#)
12. **Yue, S.**, Oh, C., Nandy, A., Terrones, G. G., and Kulik, H. J. Effect of MOF linker rotation and functionalization on methane uptake and diffusion. *Molecular Systems Design & Engineering*. **2023**. 8, 527-537. [\[link\]](#)
 - Selected as MSDE HOT Article
11. Panagiotopoulos, A. Z. and **Yue, S.** Dynamics of aqueous electrolyte solutions - Challenges for simulations. *The Journal of Physical Chemistry B*. **2023**. 127, 2, 430-437. [\[link\]](#)
10. Mondal, A., Kussainova, D., **Yue, S.**, and Panagiotopoulos, A. Z. Modeling chemical reactions in alkali carbonate-hydroxide electrolytes with deep learning potentials. *Journal of Chemical Theory and Computation*. **2022**. 19, 14, 4584-4595. [\[link\]](#)
 - JCTC Machine Learning for Molecular Simulation Special Issue
9. **Yue, S.**, Riera, M., Ghosh, R., Panagiotopoulos, A. Z., and Paesani, F. Transferability of data-driven, many-body models for CO₂ simulations in the vapor and liquid phases. *The Journal of Chemical Physics*. **2022**. 156, 104530. [\[link\]](#)
8. Zhang, C., **Yue, S.**, Panagiotopoulos, A. Z., Klein, M. L., and Wu, X. Dissolving salt is not equivalent to applying a pressure on water. *Nature Communications*. **2022**. 13, 822. [\[link\]](#)
 - Featured in [Springer Nature Research Communities](#)
 - Computation and Machine Learning for Chemistry Collection

7. Muniz, M. C., Gartner III, T. E., Knight, C., Riera, M., **Yue, S.**, Paesani, F., and Panagiotopoulos, A. Z. Vapor-liquid equilibria of water using the MB-pol many-body potential. *The Journal of Chemical Physics*. **2021**. 154, 211103. [[link](#)]
 – Featured in JCP Scilight
 – Selected as JCP Featured Article
6. **Yue, S.**, Muniz, M. C., Andrade, M. F. C., Zhang, L., Car, R., and Panagiotopoulos, A. Z. When do short-range atomistic machine-learning models fall short? *The Journal of Chemical Physics*. **2021**. 154, 034111. [[link](#)]
 – Selected as JCP Featured Article
5. Kussainova, D., Mondal, A., Young, J. M., **Yue, S.**, and Panagiotopoulos, A. Z. Molecular simulation of liquid-vapor coexistence for NaCl: Full-charge vs. scaled-charge interaction models. *The Journal of Chemical Physics*. **2020**. 153, 024501. [[link](#)]
4. **Yue, S.** and Panagiotopoulos, A. Z. Dynamic properties of aqueous electrolyte solutions from nonpolarisable, polarisable, and scaled-charge models. *Molecular Physics*. **2019**. 117 (23-24), pp. 3538-3549. [[link](#)]
3. Whitley, J. W., Horne, J. W., Andrews, M. A., Terrill, K. L., Hayward, S. S., **Yue, S.**, Mittenthal, M. S., O’Harra, K. E., Shannon, M. S., and Bara, J. E. Systematic investigation of the photopolymerization of imidazolium-based ionic liquid styrene and vinyl monomers. *Journal of Polymer Science Part A: Polymer Chemistry*. **2018**. 56, 2364-2375. [[link](#)]
2. **Yue, S.**, Roveda, J. D., Mittenthal, M. S., Shannon, M. S., and Bara, J. E. Experimental densities and calculated fractional free volumes of ionic liquids with tri- and tetra-substituted imidazolium cations. *Journal of Chemical and Engineering Data*. **2018**. 63 (7), 2522-2532. [[link](#)]
1. Fang, Z., Both, J., Li, S., **Yue, S.**, Aprà, E., Keçeli, M., Wagner, A. F., and Dixon, D. A. Benchmark calculations of energetic properties of groups 4 and 6 transition metal oxide nanoclusters including comparison to DFT. *Journal of Chemical Theory and Computation*. **2016**. 12, 3689-3710. [[link](#)]

GRANTS AND COMPUTATIONAL RESOURCES

At Cornell:

Co-PI , NSF TTP-T (PI: Vibha Kalra)	2026 – 2029
Co-PI , SPROUT Award, Cornell Duffield Engineering	2026 – 2027
PI , Flagship Workshop funding, CECAM	2026
PI , SPROUT Award, Cornell Duffield Engineering	2026
PI , Scialog SM3 Award, Alfred P. Sloan Foundation	2024 – 2025
PI , Affinito-Stewart Grant, Cornell	2024 – 2025
PI , NSF ACCESS compute allocation	2023 – 2027
Co-PI , Cornell-NUS Global Strategic Collaboration Award	2024

Before Cornell:

Co-PI , NSF XSEDE compute allocation (PI: Heather J. Kulik)	2022
Contributor , DOE INCITE compute allocation (PI: Roberto Car)	2021
Contributor , DOE NERSC compute allocation (PI: Roberto Car)	2020

TEACHING

Instructor , CHEME 6130: Advanced Chemical Engineering Thermodynamics, Cornell	Fall 2023 – Present
Instructor , CHEME 3320: Analysis of Separation Processes, Cornell	Spring 2025 – Present

Instructor , Institute of Computational Molecular Science Education (i-CoMSE) Summer School: Machine Learning for Molecules [link]	2024, 2025
Instructor , ENGRG 1050: Engineering Seminar, Cornell	Fall 2024
Guest Lecturer , CHEME 7740/5540: Principles of Molecular Simulation, Cornell	February 2024
Teaching Assistant , CBE 442 Design, Synthesis, and Optimization of Chemical Processes, Princeton	2017

ACADEMIC AND PROFESSIONAL SERVICE

Organizational and editorial leadership

Liaison Director, AIChE Computational Molecular Science and Engineering Forum (CoMSEF)	2024 – 2026
Early Career Board, Journal of Chemical Theory and Computation (JCTC)	2024 – 2026
Early Career Representative, AAAS Section M Engineering Steering Committee	2024 – 2025
Student Research Council Chair, DOE Center for Enhanced Nanofluidic Transport (CENT) EFRC	2022 – 2023

Conference/Workshop organization and service

Co-organizer, MIT Nanofluidic Seminar Series	2026 – Present
<i>Lead Organizer, CECAM Flagship Workshop on Physics-aware Machine Learning for Molecules and Materials</i>	2026
Programming Committee, AIChE Area 1A	2026 – Present
Session Co-Chair, AIChE Faculty Candidates in CoMSEF/Area 1A	2024 – Present
Discussion Leader, Gordon Research Conference, Water and Aqueous Solutions	2026
Panelist, Gordon Research Seminar, Water and Aqueous Solutions	2026
Session Co-Chair, AIChE CoMSEF Poster Session	2025 – 2026
Session Chair, ACS PHYS Rare Events: Machine Learning, Theory, and Mechanisms	2025
Poster Judge, ACS COMP / NVIDIA Poster Session	2024
Session Chair, Foundations in Molecular Modeling and Simulation (FOMMS) 2024: Advances in Molecular Modeling and Simulation (MMS)	2024
<i>Chair, Gordon Research Seminar, Chemistry and Physics of Liquids</i>	2023
Discussion Leader, Gordon Research Conference, Chemistry and Physics of Liquids	2023
Session Chair, AIChE 2022 Innovations in Methods of Data Science	2022
Session Co-Host, Princeton CSI Molecular Simulations with Machine Learning Workshop	2020
Session Chair, ACS Fall 2019 Computational Studies of Water	2019

Journal Reviewer: *ACS Electrochemistry, Chemical Science, Chemistry of Materials, Digital Discovery, Industrial & Engineering Chemistry Research, JACS, Journal of Catalysis, Journal of Chemical Physics, Journal of Chemical Theory & Computation, Journal of Materials Research, Journal of Physical Chemistry A/B/C, Nature Communications, npj Computational Materials, Science Advances*

Workshop Reviewer: NeurIPS 2023 AI4Science Workshop, NeurIPS 2023/2024 Generative AI & Biology Workshop

Proposal Reviewer: DOE BES, NSF DMREF, NSF CBET, NSF CDS&E, NSF GRFP, ACS PRF, ETH Zürich/Swiss National Supercomputing Centre, Cornell Institute for Digital Agriculture (CIDA), Cornell Global Hubs

Professional Memberships: AIChE, ACS, AAAS

PhD Thesis committee member/examiner:

Wenhao Yuan (Advisor: Fengqi You, Cornell SYSEN)	2025 – Present
Junji Zhang (Advisor: Tim Duignan, University of Queensland, Australia)	2025
Katherine Wang (Advisor: Julia Dshemuchadse, Cornell MSE)	2024 – Present
June-Yo Chen (Advisor: Yong Joo, Cornell CBE)	2023 – Present
Hongjin Du (Advisor: Julia Dshemuchadse, Cornell MSE)	2023 – Present
Kaushik Chivukula (Advisor: Yu Zhong, Cornell MSE)	2023 – Present
San Lin Htun (Advisor: Jillian Goldfarb, Cornell BEE)	2023 – Present

Departmental Service:

Executive Committee	2024 – 2026
Graduate Field Committee	2023 – Present
Postdoc Committee	2023 – Present
2024 CBE Symposium judge	February 2024

TRAINEES SUPERVISED

Postdocs:

Harender S. Dhatarwal	2026 – Present
Osman Mamun → Los Alamos National Lab	2024 – 2026
Md Masuduzzaman	2025 – 2026

Graduate Students:

Prajwal Ananthanarayana – PhD student, Cornell CAM	2025 – Present
Harshvardhan Singh Deora – PhD student, Cornell CCB	2025 – Present
Utkarsh Dogra – PhD student, Cornell CBE	2025 – Present
Chenlu Yang – PhD student, Cornell CCB	2024 – Present
Aditi Seshadri – PhD student, Cornell CBE	2023 – 2025
– NSF GRFP	
Rahul Sheshanarayana – MS student, Cornell CBE	2022 – 2024
Nupur Mehra – PhD student, Cornell CBE	2022 – 2024
Spencer Sabatino – PhD student, Cornell CBE	2022 – 2024

Undergraduate Students:

Isabella Thomas, Cornell CBE '29	2025 – Present
– Hunter R. Rawlings III Presidential Research Scholar	
James Chen, Cornell CBE '26 → MS student at Cornell Tech	2025 – 2026
Lyndon Hess, Cornell CCB & Mathematics '27	2024 – 2025
Anthony Dee, Cornell CBE '25 → Capital One	2023 – 2025
– CBE Outstanding Research by an Undergraduate Award	
Anant Gupta, Cornell CBE '25 → Proctor & Gamble	2023 – 2025
– Cornell ELI undergraduate research grant	
Zachary Kwon, Cornell CBE '25 → L'Oréal	2023 – 2025
Nhi Nguyen, Cornell CBE '25 → PhD student at MIT ChemE	2023 – 2025
– AIChE Undergraduate Scholarship Award	
– Cornell ELI undergraduate research grant	

Before Cornell:

Akash Ball – ChemE PhD student, MIT	Spring 2023
Changhwan Oh – DMSE PhD student, MIT	2022 – 2023
Rafael Chavez – MIT Energy Initiative UROP, MIT	Summer 2022
Maria Muniz – CBE PhD student, Princeton → Associate at McKinsey consulting	2019 – 2021
Reha Mathur – CBE undergraduate, Princeton → Investor at Dimension Capital	Summer 2021
Andre Guest – CBE Senior Thesis student, Princeton	Fall 2020
Dina Kussainova – Undergraduate summer researcher, Princeton → PhD student at Princeton	Summer 2019
Ayanna Matthews – Physics Junior Thesis student, Princeton → PhD student at UChicago	Spring 2019

INVITED SEMINARS

7. University of Notre Dame Department of Chemical and Biomolecular Engineering Seminar, Notre Dame, IN. December 2026.
6. DOE Center for Enhanced Nanofluidic Transport (CENT) EFRC seminar series, zoom, May 2026.
5. University of Arkansas Ralph E. Martin Department of Chemical Engineering Seminar, Fayetteville, AR. April 2026.
4. City College of New York (CCNY) Department of Chemical Engineering Seminar, New York City, NY. April 2026.
3. Cornell University Department of Biological and Environmental Engineering Seminar, Ithaca, NY. December 2024. (Field Seminar)
2. Cornell University Department of Material Science and Engineering Seminar, Ithaca, NY. November 2024. (Field Seminar)
1. University of Delaware Department of Chemical and Biomolecular Engineering Seminar, Newark, DE. October 2024.

INVITED CONFERENCE/WORKSHOP TALKS

At Cornell:

17. ACS Spring National Meeting 2027, COMP: Frontiers in AI and Molecular Modeling, New Orleans, LA. March 2027.
16. AIChE Annual Meeting 2026, Area 1A session on Machine Learned and Classical Intermolecular Potentials, Minneapolis, MN. November 2026.
15. Southeastern Regional Meeting of the American Chemical Society (SERMACS) 2026, The Dr. David A. Dixon Memorial Symposium: Advancing Computational Chemistry Through Theory, Collaboration, and Education, Memphis, TN. November 2026.
14. Telluride workshop – Machine Learning for Material Chemistry, Telluride, CO. September 2026.
13. ChemAI-NYC 2026, Simons Center for Computational Physical Chemistry, New York City, NY, June 2026.
12. CECAM Flagship Workshop on Physics-aware Machine Learning for Molecules and Materials, New York City, NY, June 2026.
11. Weill Cornell Symposium on Artificial Intelligence for Basic Research in Medicine and the Life Sciences, New York City, NY, June 2026.
10. Pacificchem 2025, Challenges in Water – From Fundamental Chemistry to Technical Applications, Honolulu, HI. December 2025.

9. MRS Fall Meeting 2025, Accelerating Material Research Beyond Data-Driven Approaches – Physical Knowledge and Human Intervention in Autonomous Experiments, Boston, MA. December 2025.
8. AIChE Annual Meeting 2025, CoMSEF – Special Session in Honor of Prof. Thanos Panagiotopoulos 65th Birthday, Boston, MA. November 2025.
7. ACS Fall National Meeting 2025, PHYS: Rare Event Sampling in Material Science Problems – From Fundamental Understanding to Technological Applications, Washington DC. August 2025.
6. Gordon Research Conference: Chemistry and Physics of Liquids, Holderness, NH. August 2025.
5. NSF Future of AI in the Mathematical and Physical Sciences (AI+MPS) Workshop, Cambridge, MA. March 2025.
4. AIChE Annual Meeting 2024, Spotlights in Thermodynamics and Computational Molecular Science, San Diego, CA. October 2024.
3. ACS Fall National Meeting 2024, I&EC: Data Analytics and AI for Manufacturing and Healthcare, Denver, CO. August 2024.
2. Telluride workshop – Multi-Scale Quantum Mechanical Analysis of Condensed Phase Systems: Methods and Applications, Telluride, CO. July 2024.
1. Cornell Scientific Computing and Numerics (SCAN) Seminar, Ithaca, NY. October 2023.

Before Cornell:

7. Statistical Thermodynamics and Molecular Simulations (STMS) Seminar Series (virtual). April 2023. [\[YouTube video\]](#)
6. Lennard-Jones Centre Discussion Group, The University of Cambridge (virtual). October 2022. [\[YouTube video\]](#)
5. MIT 10.981 Seminar in Colloid and Interface Science (D. Blankschtein group) (virtual). September 2022.
4. Women ExceLLing in COmputational Molecular Engineering (WELCOME) Seminar (virtual). November 2020.
3. WCC/Merck Award Symposium, ACS Fall 2020 National Meeting (virtual). August 2020.
2. Hack Award Symposium, Princeton Environmental Institute (virtual). May 2020.
1. Gordon Research Seminar: Chemistry and Physics of Liquids, Holderness, NH. July 2019.

SELECTED CONTRIBUTED TALKS

5. ACS Fall 2024 National Meeting, ACS COMP – Machine Learning in Chemistry, Denver, CO. August 2024.
4. MIT Sustainability Conference, MIT J-WAFS, Cambridge, MA. September 2022.
3. Foundations of Molecular Modeling and Simulation (FOMMS), Delavan, WI. July 2022. *Received Best Poster Award.*
2. AIChE Annual Meeting 2020, Applications of Data Science in Molecular Sciences (virtual). November 2020. [\[YouTube video\]](#)
1. Princeton CBE Graduate Student Symposium, Princeton, NJ. October 2019. *Awarded Best Talk in Computational Modeling session.*

OUTREACH ACTIVITIES

Field Session Lead , CATALYST/CURIE Academy, Cornell Engineering High School Outreach Program [about]	2024, 2025
Panelist , Cornell CBE Women Annual Event	April 2025
Guest Speaker , Cornell SWE Alumni and Faculty Dinner	April 2024
Guest Speaker , Cornell CBE Postdoc Lunch with Faculty	April 2024
Guest Speaker , Cornell CBE WOMEN Lunch with Faculty	April 2024
Guest Speaker , Cornell Bridge Scholars Program	November 2023
Secretary/Treasurer , Princeton Graduate Women in Science and Engineering (GWiSE)	2018 – 2020
President , Princeton Graduate Engineering Council	2017 – 2019
Co-lead , Princeton CBE Grad Student Recruitment Team	2017, 2018
President , U. Alabama Student Chapter of the American Chemical Society	2014 – 2016
Founder and Director , The Greener Tide Project Recycling Initiative	2015 – 2016
Co-founder and Co-director , STEM Career Exploration Initiative outreach at Marion High School in Marion, AL	Summer 2013