

# Lorena S. Grundy

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Updated Feb. 2026

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EDUCATION	<b>University of California, Berkeley</b> <ul style="list-style-type: none"><li>• Ph.D. in Chemical and Biomolecular Engineering, advised by Nitash P. Balsara</li></ul> <b>Princeton University</b> <ul style="list-style-type: none"><li>• B.S.E. <i>cum laude</i> in Chemical and Biological Engineering</li><li>• Certificates in Sustainable Energy and Applications of Computing</li></ul>	2017–2022 2013–2017
PROFESSIONAL APPOINTMENTS	<b>University of Pennsylvania</b> <ul style="list-style-type: none"><li>• Practice Assistant Professor, Chemical and Biomolecular Engineering</li><li>• Director, Energy and Sustainability (ENSU) minor</li><li>• Founding Director and Faculty Advisor, new Master of Science in Engineering degree program in Energy and Sustainability Engineering</li></ul>	2024–present
RESEARCH EXPERIENCE	<b>Koretsky Group</b> , Tufts University: post-doctoral scholar <ul style="list-style-type: none"><li>• Depts. of CBE and Education, Institute for Research on Learning and Instruction (IRLI)</li><li>• Supported by <b>ASEE Engineering Postdoctoral Fellowship</b></li></ul> <b>Balsara Lab</b> , UC Berkeley: graduate researcher <ul style="list-style-type: none"><li>• Characterization of morphology and ion transport through polymer electrolytes using NMR, electrochemical methods, and small angle X-ray scattering (SAXS)</li></ul> <b>Berkeley Nuclear Magnetic Resonance (NMR) Facility</b> : assistant manager	2022–2024 2017–2022 2019
	<b>Priestley Lab</b> , Princeton University: undergraduate researcher <ul style="list-style-type: none"><li>• Senior thesis: nanoparticles from block copolymer blends; electron microscopy</li></ul> <b>Avalos Lab</b> , Princeton University: undergraduate researcher, biofuel engineering	2016–2017 2015
PUBLICATIONS	Eight 1 <sup>st</sup> author journal papers, eight conference (five 1 <sup>st</sup> author); see lorena-grundy.com for complete list.	
INVITED TALKS	<ul style="list-style-type: none"><li>• Empowering Future Leaders: A Workshop to Share Best Practices in Interdisciplinary Graduate Training to Ensure a Fair Energy Transition, May 2025.</li><li>• Framework and Initial Steps Towards Industry-Relevant Undergraduate Electrochemical Engineering Education. Electrochemical Society Spring Meeting, May 2024.</li><li>• Limitations to our Understanding of the Limiting Current. Battery Modeling Webinar Series, 2023.</li><li>• Inaccessible Current-Induced Phase Transitions in Block Copolymer Electrolytes. APS March, 2022.</li><li>• ACS POLY Excellence in Graduate Research Symposium. ACS Spring, 2022.</li><li>• Distortion of Lamellae in an Electrolyte Under Polarization. ALS User Meeting, 2021.</li><li>• Using <sup>7</sup>Li NMR to Detect Order-to-Disorder Transitions. ACS Fall, 2020.</li></ul>	
TEACHING AND SERVICE	<b>Lead Instructor</b> <ul style="list-style-type: none"><li>• Renewable Energy Technologies Lab course, in development</li><li>• Engineering Sustainability at Penn Campus-as-Lab course</li><li>• Energy and Sustainability: Science, Engineering and Technology</li><li>• Material and Energy Balances of Chemical Processes</li><li>• Electrochemical Engineering (Tufts)</li><li>• Learning and Teaching in STEM: A Seminar for Learning Assistants (Tufts)</li></ul> <b>Graduate Student Instructor (GSI)</b> : Three-time outstanding GSI award winner <b>Co-founder, Graduate Certificate in STEM Teaching Practice</b> for 2026 launch <b>Director, school-wide Energy and Sustainability (ENSU) minor</b> <b>Co-director, Sustainability and Environmental Management minor</b> <b>Penn Engineers Without Borders (EWB) Penn Chapter</b> : Faculty Advisor <b>Ethnography in Education Research Forum</b> : Faculty Affiliate <b>American Association of University Professors (AAUP) Penn</b> : Vice President <b>ASEE Chemical Engineering Division (ChED)</b> : Communications Chair <b>AIChE Education Division (EdDiv)</b> : Membership Committee <b>Berkeley Pre-Engineering Program (PREP) Instructor</b> <ul style="list-style-type: none"><li>• Designed and taught a fully-remote, three-week chemistry course</li></ul> <b>Coordinated Community Review Team for Sexual Violence and Misconduct</b> <b>Respect is a Part of Research (RPR)</b> : SVSH training facilitator <b>Berkeley CBE Remote Instruction Committee</b> <b>Berkeley CBE Graduate Student Advisory Committee (GSAC) President</b> <ul style="list-style-type: none"><li>• Elected to lead and represent graduate students to the faculty</li></ul> <b>Berkeley CBE GSAC Vice President, Treasurer, and Social Chair</b> <b>Scientific Journal Reviewer</b> : <i>ACS Macromolecules</i> , <i>J. Electrochem. Soc.</i> , <i>JEE</i>	fall 2026 annually spring 2025–present annually fall 2024–present fall 2024 fall 2023 spring 2023 2018–2020 2025–present 2024–present 2025–present 2024–present 2025–present 2023–present 2024–present 2020–2021 2021–2022 2019–2021 2020–2022 2019–2020 2018–2019 2019–present