

Lorena S. Grundy

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EDUCATION	University of California, Berkeley <ul style="list-style-type: none">• Ph.D. in Chemical and Biomolecular Engineering, advised by Nitash P. Balsara Princeton University <ul style="list-style-type: none">• B.S.E. <i>cum laude</i> in Chemical and Biological Engineering• Certificates in Sustainable Energy and Applications of Computing	2017–2022 2013–2017
PROFESSIONAL APPOINTMENTS	University of Pennsylvania <ul style="list-style-type: none">• Practice Assistant Professor, Chemical and Biomolecular Engineering• Director, Energy and Sustainability (ENSU) minor• Founding Director and Faculty Advisor (pending program approval), new Master of Science in Engineering degree program in Energy and Sustainability Engineering	2024–present
RESEARCH EXPERIENCE	Koretsky Group , Tufts University: post-doctoral scholar <ul style="list-style-type: none">• Depts. of CBE and Education, Institute for Research on Learning and Instruction (IRLI)• Supported by ASEE Engineering Postdoctoral Fellowship Balsara Lab , UC Berkeley: graduate researcher <ul style="list-style-type: none">• Characterization of morphology and ion transport through polymer electrolytes using NMR, electrochemical methods, and small angle X-ray scattering (SAXS) Balsara Lab , UC Berkeley: lab safety coordinator, including COVID-19 response	2022–2024 2017–2022 2018–2021
	Berkeley Nuclear Magnetic Resonance (NMR) Facility : assistant manager	2019
	Priestley Lab , Princeton University: undergraduate researcher <ul style="list-style-type: none">• Senior thesis: nanoparticles from block copolymer blends; electron microscopy	2016–2017
	Avalos Lab , Princeton University: undergraduate researcher, biofuel engineering	2015
PUBLICATIONS	Seven first author, three second, three third; see lorena-grundy.com for complete list.	
INVITED TALKS	<ul style="list-style-type: none">• Framework and Initial Steps Towards Industry-Relevant Undergraduate Electrochemical Engineering Education. Electrochemical Society Spring Meeting, May 2024.• Limitations to our Understanding of the Limiting Current. Battery Modeling Webinar Series, 2023.• Inaccessible Current-Induced Phase Transitions in Block Copolymer Electrolytes. APS March, 2022.• ACS POLY Excellence in Graduate Research Symposium. ACS Spring, 2022.• Distortion of Lamellae in an Electrolyte Under Polarization. ALS User Meeting, 2021.• Using ^7Li NMR to Detect Order-to-Disorder Transitions. ACS Fall, 2020.	
TEACHING AND SERVICE	Lead Instructor <ul style="list-style-type: none">• Renewable Energy Technologies Lab course, in development• Engineering Sustainability at Penn Campus-as-Lab course• Energy and Sustainability: Science, Engineering and Technology• Material and Energy Balances of Chemical Processes• Electrochemical Engineering• Learning and Teaching in STEM: A Seminar for Learning Assistants Graduate Student Instructor (GSI) : Three-time outstanding GSI award winner	fall 2026 annually spring 2025–present annually fall 2024–present fall 2024 fall 2023 spring 2023
	Engineers Without Borders (EWB) Penn Chapter : Faculty Advisor	2024–present
	Ethnography in Education Research Forum : Faculty Affiliate	2025–present
	American Association of University Professors (AAUP) Penn : Vice President	2025–present
	ASEE Chemical Engineering Division (ChED) : Communications Chair	2023–present
	AIChE Education Division (EdDiv) : Membership Committee	2024–present
	Berkeley Pre-Engineering Program (PREP) Instructor <ul style="list-style-type: none">• Designed and taught a fully-remote, three-week chemistry course to incoming Berkeley undergraduate engineering students from under-served high schools	2020–2021
	Coordinated Community Review Team for Sexual Violence and Misconduct	2021–2022
	Respect is a Part of Research (RPR) : SVSH training facilitator	2019–2021
	Berkeley CBE Remote Instruction Committee	2020–2022
	Berkeley CBE Graduate Student Advisory Committee (GSAC) President <ul style="list-style-type: none">• Elected to lead and represent graduate students to the faculty	2019–2020
	Berkeley CBE GSAC Vice President, Treasurer, and Social Chair	2018–2019
	Scientific Journal Reviewer : <i>ACS Macromolecules</i> , <i>J. Electrochem. Soc.</i> , <i>JEE</i>	2019–present
	Princeton Charter Club President	2015–2017
	Undergraduate Council , Princeton CBE department	2016–2017
	Princeton Outdoor Action : week-long pre-orientation backpacking trip leader	2014–2017