Lorena S. Grundy

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Philadelphia, PA 1	9104 grundy.lorena@gmail.com website: lorena-grundy.com	Updated Jul. 2024
EDUCATION	University of California, Berkeley	2017–2022
	Ph.D. in Chemical and Biomolecular Engineering	0010 0017
	 Princeton University B.S.E. <i>cum laude</i> in Chemical and Biological Engineering 	2013–2017
	 B.S.E. <i>curriadde</i> in Chemical and Biological Engineering Certificates in Sustainable Energy and Applications of Computing 	
PROFESSIONAL	University of Pennsylvania	2024-present
APPOINTMENT S		·
RESEARCH EXPERIENCE	 Koretsky Group, Tufts University: post-doctoral scholar Dept. of Chemical and Biological Engineering, Dept. of Education, and Institute for Research on Learning and Instruction (IRLI) Supported by ASEE Engineering Postdoctoral Fellowship 	2022–2024
	 Balsara Lab, UC Berkeley: graduate researcher Characterization of morphology and ion transport through polymer electrolytes using NMR, electrochemical methods, and small angle X-ray scattering (SAXS) Block copolymer synthesis using anionic polymerization under high vacuum 	2017–2022
	Bilsara Lab, UC Berkeley: lab safety coordinator, including COVID-19 response	2018–2021
	Barsara Lab, oc berkeley, hab salety coordinator, including covid-19 response Berkeley Nuclear Magnetic Resonance (NMR) Facility: assistant manager	2018-2021
	Priestley Lab, Princeton University: undergraduate researcher	2016-2017
	Senior thesis: nanoparticles made from block copolymer blends	
	• Experience with polymers, electron microscopy, nanoparticle fabrication	
	Avalos Lab, Princeton University: undergraduate researcher	2015
	 Research on yeast metabolic engineering for biofuel applications 	
PUBLICATIONS	Seven first author, three second, three third; see lorena-grundy.com for complete list	
	 Limitations to our Understanding of the Limiting Current. Battery Modeling Webina Inaccessible Current-Induced Phase Transitions in Block Copolymer Electrolytes. ACS POLY Excellence in Graduate Research Symposium. ACS Spring, 2022. Distortion of Lamellae in an Electrolyte Under Polarization. ALS User Meeting, 202 Using ⁷Li NMR to Detect Order-to-Disorder Transitions. ACS Fall, 2020. 	APS March, 2022.
	Lead / Co-Lead Instructor	
TEACHING AND SERVICE	 Electrochemical Engineering – solo course design and delivery Learning and Teaching in STEM: A Seminar for Learning Assistants 	fall 2024 fall 2024 fall 2023 spring 2023
	 Three-time outstanding GSI award winner (2018-2020) 	
	 Graduate Thermodynamics and Statistical Mechanics (CBE 240; online) 	2020
	 Introduction to Chemical Engineering Design (CBE 40) 	2020
	 Introduction to Chemical Process Analysis (CBE 140) 	2018
	 Introduction to Chemical Engineering Design (CBE 40) 	2017
	Berkeley Pre-Engineering Program (PREP) Instructor	2020–2021
	 Designed and taught a fully-remote, three-week chemistry course to incoming Berkeley undergraduate engineering students from under-served high schools 	
	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	2019–2020
	Elected to lead and represent graduate students to the faculty	
	Berkeley CBE GSAC Vice President, Treasurer, and Social Chair	2018-2019
	Scientific Journal Reviewer: ACS Macromolecules, J. Electrochem. Soc., JEE	2019-present
	Princeton Charter Club President	2015-2017
	Undergraduate Council, Princeton Chem & Bio Engineering department Princeton Outdoor Action: week-long pre-orientation backpacking trip leader	2016–2017 2014–2017