| Philadelphia, PA             | Lorena S. Grundy  9104 grundy.lorena@gmail.com  website: lorena-grundy.com   | Updated Jan. 2025   |
|------------------------------|--|---|
| EDUCATION                    | University of California, Berkeley   | 2017–2022   |
|                              | Ph.D. in Chemical and Biomolecular Engineering  Princeton University   | 0010 0017   |
|                              | <ul> <li>Princeton University</li> <li>B.S.E. cum laude in Chemical and Biological Engineering</li> <li>Certificates in Sustainable Energy and Applications of Computing</li> </ul>  | 2013–2017   |
| PROFESSIONAL<br>APPOINTMENTS | <ul> <li>University of Pennsylvania</li> <li>Practice Assistant Professor, Chemical and Biomolecular Engineering</li> <li>Director, Energy and Sustainability (ENSU) minor</li> </ul>  | 2024-present  |
| RESEARCH                     | Koretsky Group, Tufts University: post-doctoral scholar  | 2022–2024   |
| EXPERIENCE                   | <ul> <li>Depts. of CBE and Education, Institute for Research on Learning and Instruction (</li> <li>Supported by ASEE Engineering Postdoctoral Fellowship</li> </ul>   | (IRLI)  |
|                              | Balsara Lab, UC Berkeley: graduate researcher  | 2017–2022   |
|                              | Characterization of morphology and ion transport through polymer electrolytes  |   |
|                              | <ul> <li>using NMR, electrochemical methods, and small angle X-ray scattering (SAXS)</li> <li>Block copolymer synthesis using anionic polymerization under high vacuum</li> </ul>  |   |
|                              | Balsara Lab, UC Berkeley: lab safety coordinator, including COVID-19 response  | 2018–2021   |
|                              | Berkeley Nuclear Magnetic Resonance (NMR) Facility: assistant manager  | 2019  |
|                              | Priestley Lab, Princeton University: undergraduate researcher  | 2016–2017   |
|                              | <ul> <li>Senior thesis: nanoparticles made from block copolymer blends</li> <li>Experience with polymers, electron microscopy, nanoparticle fabrication</li> </ul>   |   |
|                              | 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.  |   |
| INVITED TALKS                | <ul> <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                 | Lead Instructor  |   |
| SERVICE                      | · · · · · · · · · · · · · · · · · · ·  | pring 2025–present<br>ly fall 2024–present<br>fall 2024<br>fall 2023<br>spring 2023 |
|                              | <ul> <li>Three-time outstanding GSI award winner (2018-2020)</li> <li>Graduate Thermodynamics and Statistical Mechanics (CBE 240; online)</li> <li>Introduction to Chemical Engineering Design (CBE 40)</li> <li>Introduction to Chemical Process Analysis (CBE 140)</li> <li>ASEE Chemical Engineering Division (ChED): Communications Chair Berkeley Pre-Engineering Program (PREP) Instructor</li> <li>Designed and taught a fully-remote, three-week chemistry course to incoming</li> </ul>   | 2020<br>2020 and 2017<br>2018<br>2023–present<br>2020–2021                          |
|                              | Berkeley undergraduate engineering students from under-served high schools Coordinated Community Review Team for Sexual Violence and Misconduct Respect is a Part of Research (RPR): SVSH training facilitator Berkeley CBE Remote Instruction Committee Berkeley CBE Graduate Student Advisory Committee (GSAC) President   | 2021–2022<br>2019–2021<br>2020–2022<br>2019–2020                                    |

• Elected to lead and represent graduate students to the faculty Berkeley CBE GSAC Vice President, Treasurer, and Social Chair

**Undergraduate Council**, Princeton CBE department

**Princeton Charter Club President** 

Scientific Journal Reviewer: ACS Macromolecules, J. Electrochem. Soc., JEE

Princeton Outdoor Action: week-long pre-orientation backpacking trip leader

2018-2019

2015-2017

2016-2017

2014-2017

2019-present