

# Stanford

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## Pablo Busch

Postdoctoral Scholar, Earth System Science

 Curriculum Vitae available Online

### Bio

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#### BIO

Dr. Pablo Busch is an interdisciplinary researcher with training in industrial and environmental engineering, public policy, energy systems, industrial ecology, and statistics. His research broadly focuses on scientific analyses to support a clean energy transition, and to help identify risks to equity and sustainability in the emerging energy transition mineral supply chain. Pablo's main research goal is to conduct scientific analysis to diverse environmental and climate change problems, and to translate key insights from research into a digestible and actionable format for decision-making. His research is fueled by tools from engineering, statistics, geographic information systems, economics and public policy.

#### PROFESSIONAL EDUCATION

- PhD, University of California, Davis , Energy Systems (2025)
- MS, University of California, Davis , Statistics (2022)
- MS, University of California, Davis , Environmental Policy & Management (2022)
- Civil Engineer, Pontificia Universidad Catolica de Chile , Industrial Engineering, Diploma in Environmental Engineering (2016)

#### STANFORD ADVISORS

- Steve Davis, Postdoctoral Faculty Sponsor

#### LINKS

- Personal site: <https://pmbusch.github.io/>
- GitHub: <https://github.com/pmbusch/>
- Google Scholar: <https://scholar.google.cl/citations?user=1kIliDgAAAAJ&hl=es&oi=ao>
- LinkedIn: <https://www.linkedin.com/in/pmbusch/>

### Publications

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#### PUBLICATIONS

- **Who Will Have Enough? Battery Mineral Demand and Sufficiency in Vehicle Producing Countries** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*  
Busch, P., Pares, F., Tal, G., Kendall, A.  
2025
- **Effects of demand and recycling on the when and where of lithium extraction** *NATURE SUSTAINABILITY*  
Busch, P., Chen, Y., Ogbonna, P., Kendall, A.  
2025

- **Short-term exposure to fine particulate pollution and elderly mortality in Chile** *COMMUNICATIONS EARTH & ENVIRONMENT*  
Busch, P., Rocha, P., Lee, K., Cifuentes, L., Tai, X.  
2024; 5 (1)
- **Future of Global Electric Vehicle Supply Chain: Exploring the Impact of Global Trade on Electric Vehicle Production and Battery Requirements** *TRANSPORTATION RESEARCH RECORD*  
Busch, P., Pares, F., Chandra, M., Kendall, A., Tal, G.  
2024; 2678 (11): 1468-1482
- **Life cycle assessment, <i>quo vadis</i>? Supporting or deterring greenwashing? A survey of practitioners** *ENVIRONMENTAL SCIENCE-ADVANCES*  
Brandao, M., Busch, P., Kendall, A.  
2024; 3 (2): 266-273
- **A systematic review of life cycle greenhouse gas intensity values for hydrogen production pathways** *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*  
Busch, P., Kendall, A., Lipman, T.  
2023; 184
- **Literature review on policies to mitigate GHG emissions for cement and concrete** *RESOURCES CONSERVATION AND RECYCLING*  
Busch, P., Kendall, A., Murphy, C. W., Miller, S. A.  
2022; 182