

# Zoë L. Ketola

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## EDUCATION

- 2023 MS, Michigan Technological University  
Department of Social Sciences  
Environmental & Energy Policy, 4.0/4.0 GPA  
Public Policy Certificate, 4.0/4.0 GPA  
Thesis Title: Acceptance and Sustainable Redevelopment: The role of acceptance in ecosystem service and landscape development  
Co-Advisors: Dr. Chelsea Schelly, Dr. Roman Sidortsov
- 2020 BS, Michigan Technological University  
Department of Engineering Fundamentals  
Engineering – Systems Engineering, 3.63/4.0 GPA  
Minors: Environmental Studies, Business
- 2018 Renewable Energy Innovation & Sustainability Course  
Reykjavik University, Iceland

## PUBLICATIONS & PUBLICATIONS, IN PROGRESS

### Journal Papers, Accepted

Ketola, Zoë, Lytle, Will, Schelly, Chelsea, Rudnicki, Mark, Kelley, Matthew. (2022). Perspectives on the social license of the forest products industry from rural Michigan, United States. WikiJournal of Science.

### Journal Papers, In Progress

Ketola, Zoë, Schelly, Chelsea, Rouleau, Mark, Kulheim, Carsten. Sustainable Restoration of Ecosystem Services: The Social Acceptance of Using Genetically Improved Trees.

Ketola, Zoë. Social Acceptance of Sustainable Redevelopment: Reutilizing Post-Industrial Infrastructure and Its Role in Renewable Energy Adoption.

### Reports

Sidortsov, Roman; Tiwari, Shardul; Scarlett, Timothy; Dyresan, Ana; Watkins, David (2021). \* PUSHing for Storage: A Case for Repurposing Decommissioned Mines for Pumped Underground Storage Hydro (PUSH) in the United States, report to Sloan Foundation. Accessible here: <https://www.ketl.info/post/push-report-released>

\*Section 5, contributing author

## CONFERENCE PARTICIPATION

## **Presentations**

- 2022 “Social Acceptability for Genetically Improved Trees in the United States Midwest,” International Association of Society and Natural Resources Annual Conference, June 2022 (San Jose, Costa Rica).
- 2022 “Scalar sustainability in UNESCO’s industrial heritage: community geographies of the slate landscapes of Northwest Wales,” TCCIH: Industrial Heritage Reloaded, August 2022 (Montréal, Quebec, Canada).  
Co-presented: Mark Rhodes, Kathryn Hannum, James Juip, Larissa Juip, Brooke Batterson, Tim Maze, and Wandipa Muelefhe
- 2019 “A Look at Tailings Management Updates.” Upper Peninsula Society for Mining, Metallurgy, & Exploration Section Fall Meeting at Michigan Technological University, October 2019 (Houghton, MI, USA).

## **Panels Organized**

- 2022 Understanding the Role of Sustainability in Education: The Student Perspective, International Association of Society and Natural Resources Annual Conference, June 2022 (San Jose, Costa Rica).

## **CERTIFICATES**

- 2023 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Understanding and Ending Gender-Based Violence in Fieldwork
- 2023 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Reciprocity in Hazards and Disaster Research
- 2023 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Social Vulnerability and Disasters
- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Broader Ethical Considerations for Hazards and Disaster Researchers
- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Collecting and Sharing Perishable Data
- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Conducting Emotionally Challenging Research
- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Cultural Competence in Hazards and Disaster Research
- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Disaster Mental Health

- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | IRB Procedures and Extreme Events Research
- 2022 CONVERGE Training Module | Natural Hazards Center at University of Colorado – Boulder | Public Health Implications of Hazards and Disaster Research

**RESEARCH EXPERIENCE**

- 2023 Graduate Research Fellow - Energy Service Security for Public Health Resilience  
Administered and analyzed qualitative, semi-structured interviews to public health stakeholders throughout the Western Upper Peninsula of Michigan.
- 2021 – 2023 Graduate Research Assistant – Social Implications of Genetically Improved Trees, USDA-AFRI  
Performed social acceptance literature review, conducted initial focus group among forest landowners, and designed landowner survey with project leaders and members from forestry and social sciences.
- 2022 Graduate Research Assistant – Community geographies of the slate landscapes of Northwest Wales  
Conducted semi-structured interviews with the public throughout Northwestern Wales to understand views on the slate UNESCO World Heritage site.
- 2019 Undergraduate Research Project – Special Topics in Sustainable Mining  
Performed analysis on upstream tailings dam functions, failures, and regulation under faculty advisor.
- 2019 Undergraduate Research Assistant – PUSH, Mines for Energy Storage  
Performed background research and calculations relevant to using decommissioned mines for hydro-pump storage.
- 2018 Seminar in Sustainability – AutoDrive Challenge Sustainability Report  
As a team of seven, conducted a literature review, designed, and led one of two focus groups, and assisted in design of a university survey regarding the implications of autonomous electric vehicles in rural communities.
- 2018 Undergraduate Research Assistant – L’Anse Community Solar  
Compiled information on possibly applicable solar tax incentives for L’Anse community solar project.

**FUNDING AWARDS**

- 2023 Great Lakes Research Center Student Travel Grant, Michigan Technological University
- 2023 Graduate Student Government Conference Presenting Grant, Michigan Technological University
- 2022 Research Travel Grant, Michigan Technological University Department of Social Sciences

- 2021 Research Travel Grant Michigan Technological University Department of Social Sciences
- 2020 “Social implications of genetically improved trees: Assessing public and forest owner attitudes, risk perceptions, and willingness to adopt,” USDA-AFRI, Graduate Research Assistantship

### **PROFESSIONAL SERVICE**

- 2021 – 2023 Association of Students for People, Environments, and Nature  
*President*
- 2021 – 2023 International Association of Society and Natural Resources (IASNR)  
*Student Member*  
*Social Media Committee Instagram Liaison*
- 2016 – 2023 Society of Women Engineers  
*Member*  
*2019 Michigan Technological University Evening with Industry Co-Chair*
- 2019 – 2020 Michigan Department of State, Collegiate Student Advisory Task Force  
*Michigan Technological University representative*
- 2018 – 2020 National Residence Hall Honorary  
*Member*
- 2017 – 2019 American Association of University Women – Michigan, Student Advisory Council  
*Upper Peninsula representative*

### **TEACHING**

- 2019 – 2020 Learning with Academic Partners (LEAP) Leader  
ENG 1505, Introduction to Systems Engineering  
ENG 2505, Low Fidelity Systems Modeling

### **ADDITIONAL PROFESSIONAL EXPERIENCE**

- 2020 – 2021 Project Engineer I, Systems Control  
Oversaw manufacturing of electrical substation control houses from project start to finish, performing state and national code and electrical reviews, material selection, and project specific support as necessary.  
Coordinated project requirements and changes with customer, manufacturing floor, and other engineering teams to ensure customer specifications and applicable codes were met.
- 2022 Interconnection & Incentives Intern, GreenStruxure  
Performed energy analyses for industrial sites in 4 US states to assess microgrid potential.  
Completed interconnection and incentive applications for sites as required to meet state and federal requirements.  
Implemented standardization tools, such as engineering interconnection forms, to streamline application processes.

### **ADDITIONAL PROFICIENCIES**

AutoCAD | MicroStation | Stella Architect | SimaPro | SPSS Statistics | MATLAB

## **LANGUAGES**

**English:** Native speaker