

# KHANDE-JAE FISHER

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## CORE COMPETENCIES & TECHNICAL SKILLS

- Technical & Engineering: Energy Systems, Materials Science, Circular Economy
- Carbon & Sustainability: GHG Accounting, Life Cycle Assessment
- Project & Stakeholder Management: Cross-functional Collaboration, Community Engagement, Translation
- Data & Research Analysis: Microsoft Office Suite, Think-cell, Python, SimaPro

## EDUCATION

### COLUMBIA UNIVERSITY (4.0/4.0 SCALE)

*Sep 2024 - Dec 2025*

*Master of Science in Sustainability Science, School of Professional Studies*

- Energy Systems Modelling: Developed a conceptual framework for an AI-driven energy management platform for hotels in Jamaica; analysed utility-level incentive structures to address high Caribbean energy costs.
- Carbon Accounting: Conducted a comprehensive Scope 1-3 GHG inventory for an external client using primary data, aligned with GHG Protocol reporting standards; developed policy recommendations and mitigation strategies to reduce emissions
- Life Cycle Assessment: Performed a full attributional life-cycle assessment (LCA) using real manufacturing and supply-chain data; identified and calculated over 90 emission contributions across material, energy, transport, and end-of-life stages to quantify total product carbon footprint and conducted sensitivity analysis to assess the robustness of key emission factors.

### STANFORD UNIVERSITY (3.7/4.0 SCALE)

*Sep 2018 - July 2022*

*Bachelor of Science in Materials Science and Engineering (Energy Focus), Minor: East Asian Studies (Korea Subplan)*

- Publication: Chen, H., Benedek, P., Fisher, K., Wood, V., Cui, Yi. (2020) "Self-Assembled Nanomaterials for Electrochemical Energy Storage"

## EXPERIENCE

### CO-PROJECT MANAGER for M.S. in Sustainability Science Capstone, Columbia University

*Sep 2025 - Dec 2025*

- Project Manager for a 12-member research team analysing the public health and environmental impacts of elevated subway infrastructure; coordinated complex fieldwork shifts to measure PM2.5 using UPAS sensors and noise intensity via Extech monitors
- Designed and executed experimental plans, coordinated data collection, and resolved operational challenges to ensure timely delivery of project milestones
- Managed stakeholder engagement and business impact assessment, conducting data analysis, interviews, and administrative coordination, bridging the gap between raw field measurements and urban policy recommendations.

### CLIMATE KNOWLEDGE INITIATIVE FELLOW, Columbia Business School

*June 2025 - Dec 2025*

- Designed and developed high-quality slide decks using PowerPoint and Think-cell to synthesize findings and support presentations
- Conducted comprehensive research and analysis on decarbonization; quantified decarbonization potential and cost-curves; focus verticals: nuclear energy, maritime decarbonization, plastics, carbon capture and critical minerals

### GLOBAL PROJECT MANAGER, Teelabs Smart Business Center

*Sep 2023 - June 2024*

- Facilitated cross-border cleantech market entry by providing technical due diligence and translation of 200+ documents for startups in energy, healthcare and other industries
- Provided pitch coaching and strategic mentorship to 100+ Korean start-ups, helping them refine their market entry strategies for North America.
- Acted as a liaison and translator at SLUSH and other start-up conferences, assisting founders in communicating with global investors and stakeholders.
- Delivered market insights on advertising and marketing in the American markets for start-ups seeking expansion, ensuring cultural and strategic alignment.

### ENERGY OPERATIONS INTERN, Stanford University

*June 2022 - Aug 2022*

- Analysed and optimized Stanford's district heating system, identifying energy losses and proposing efficiency improvements.
- Conducted data analysis and research on steam usage and energy efficiency, cross-checking steam flow data to minimize energy waste and enhance system performance.
- Assisted in the database migration process, collaborating with the Chief Energy Engineer to improve data accuracy and accessibility for energy system monitoring and reporting.
- Contributed to the development of energy efficiency programs, supporting senior team members in implementing sustainability initiatives.

### COMMUNITY ENERGY DESIGN INTERN, Shake Energy Collaborative

*June 2021 - Aug 2021*

- Facilitated workshops with community-led energy cooperatives, guiding discussions on equitable and sustainable energy infrastructure development.
- Collaborated with the CEO and local stakeholders to apply systems-thinking tools, ensuring that community expertise and needs were integrated into renewable energy accessibility strategies.
- Researched and proposed innovative solutions for improving energy equity and accessibility, aligning projects with community priorities.
- Developed and amplified social media content to increase engagement and awareness of community-driven renewable energy initiatives.