Li Zeng

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EDUCATION

2021 – Current **Swiss Federal Institute of Technology (ETH Zürich)**
M.Sc. in Management, Technology and Economics
- **Academic Excellence:** GPA 5.6/6.0, **Top 5% in cohort.**
- **Courses:** Renewable Energy Technologies, CO_2 Removal Technologies, Python for Engineers, Resource and Environmental Economics, Climate Finance and Economics, etc.

2018 – 2021 **The University of British Columbia**
B.A.Sc. in Materials Engineering & Commerce Minor, with Distinction
- **Academic Excellence:** GPA 91/100, Rank **1st out of 63**; awarded scholarships totaling 31,500 CAD
- **Courses:** Material Process Modelling, Materials Economics, Corporate Finance, etc.

RESEARCH EXPERIENCE

2023 – Current **Institute of Science, Technology and Policy, ETH Zürich**
Thesis Student & Research Assistant at Energy and Technology Group, Prof. Tobias Schmidt
- **Thesis (ongoing):** LCA and Techno-Economic Analysis of Li-ion Battery Recycling
  - Discussed and conceptualized research gaps; independently designed the research framework and process; compiled a database and built an LCA-TEA model using Python and Excel.
- **Assisted Projects:** Food Preferences and Climate Impacts of VAT Reduction: Evidence from Latvia; Oil & Gas Superprofits during the Ukraine War for Climate Action.
  - Conducted desktop research, data collection (**>180,000 datapoints**), expert interviews, descriptive and inferential statistics (Synthetic Control Methods and DiD) using R.
  - Co-authoring and contributed to two academic papers; acknowledged in a publication.

Semester Project Student at Climate Finance and Policy Group, Prof. Bjarne Steffen
- **Semester Project:** ESG-bonds for the Net-Zero Transition in Southeast Asia
  - Constructed a database of **13,834 bonds**, performed statistical analysis and visualization using R, provided policy implementations, and contributed to a World Economic Forum White Paper.
- **Assisted Projects:** Offshore Wind; Alps Mountain and Lake Solar PV; Winter Rooftop PV
  - Collected and processed financial, technical, and geological data from Bloomberg, IEA, etc.; modified and visualized energy system models using MATLAB, QGIS, Python for paper revision.
  - Contributed to an exploratory study and two academic papers; acknowledged in publications.

2023 Summer **Center of Financial Services Innovation, University of St. Gallen**
Research Assistant at Sustainable Finance Lab, Prof. Julian Kölbel
- **Assisted Projects:** Sustainability-Linked Bonds; Corporate Climate Engagement.
  - Collected and verified financial data from multiple sources (cold emails, field experiments, and financial databases); assisted matching methods and t-tests for empirical analysis.
  - Contributed to two academic papers; acknowledged in publications.

2019 Summer **Department of Chemistry, National University of Singapore**
Exchange Research Program at Surface and Interface Lab, Prof. Wei Chen
- **Research Projects:** Li-O_2 Battery Cathode Material Development.
  - Designed and conducted chemical experiments on material synthesis, characterization, assembly, and testing to verify CMK-8 as a cathode material achieving **no degradation after 45 cycles.**
  - Authored a report, received an A (highest grade), and won Best Student Poster Presentation award at a conference.

RESEARCH CONTRIBUTION

Publications:

- Yang, H., **Zeng, L.**, Zhang, B.*, et al. (2023). Dislocation-driven growth of WS_2/WSe_2 quantum well superlattices. *Frontiers in Materials*, 10. https://doi.org/10.3389/fmats.2023.1108077

Presentations:

- **Oral:** Zeng, L. (2020, September 30). *P-MOSFET structure redesign by stress simulation and analysis*. Presented at The International Conference of Undergraduate Research, Monash University, Melbourne, Australia.
- **Poster:** Zeng, L. (2019, November 7). *Mesoporous carbon materials improving Li-O_2 batteries cathode performances by its permselective channels*. Presented at Generate 2019 Fall Conference, Hyatt Regency, Vancouver, Canada.

Acknowledgements:

- Đukan, M., Gut, D., Gumber, A., & Steffen, B. (2024). Harnessing solar power in the Alps: A study on the financial viability of mountain PV systems. *Applied Energy*, 375, 124019. https://doi.org/10.1016/j.apenergy.2024.124019
- Heeb, F., & Kölbel, J. (2024). *The impact of climate engagement: A field experiment* (MIT Sloan Research Paper No. 7057-24). Available at SSRN: https://ssrn.com/abstract=4711873

TEACHING & SERVICE

2022-2023 **Department of Management, Technology and Economics, ETH Zürich**
Tutor of Economics for MAS Students (equivalent to MBA program).

2019-2020 **Office of Global Engagement, University of British Columbia**
Tutor and Ambassador of "Go Global" Program.

PROFESSIONAL EXPERIENCE

2022 Summer **China International Capital Corporation Ltd, Beijing, China**
Private Equity Intern at Capital Management Division
- **Highlights:** Engaged in a full-cycle C-round deal for a SaaS company (pre-investment valuation: **550 million CNY**). Sourced and built a database of over 100 un- IPO clean tech companies in China.

2021 Summer **Chongqing Industrial Investment Fund Ltd, Chongqing, China**
Fund of Funds Intern at Portfolio Management Division
- **Highlights:** Authored 5 investment analysis reports on batteries, EV and semiconductor industries covering total deals worth over **171 million CNY**.

2020 Spring **Western Copper and Gold Corp, Vancouver, Canada**
Consultant Intern of School-Industry Co-op Program
- **Highlights:** Conducted a pre-feasibility study for a hydrometallurgy plant (capacity: **45,600 t/year**) to evaluate added value options following the heap leaching process of the Casino Copper project.

SCHOLARSHIPS & AWARDS

Scholarships:

2019-2021 International Student Scholarship (18,500 CAD, Highest Honor, UBC)
2019-2021 Trek Excellence Scholarship (8,000 CAD, Top 5% Ranking, UBC)
2019 Frank A. Forward Memorial Scholarship (2,500 CAD, Highest Honor, D-MTRL, UBC)
2019 "Go Global" Research Abroad Scholarship (2,000 CAD, Excellence in Research, UBC)

Awards:

2019-2021 Dean's Honor List (Merit-based award, UBC)
2020 Kaggle Bronze Medal (M5 Forecasting Competition, Top 9% Ranking, Kaggle)
2019 Best Student Poster Presentation (500 CAD, Conference: Generate 2019)

LANGUAGES & SKILLS

Language: Chinese Mandarin (Native), English (Fluent), German (Basic)
Programming: R (ggplot2, aov, lfe, Synth, etc.), Python (Pandas, Numpy, Scikit-learn, etc.), VBA, MATLAB, Git
Qualitative Methods: Literature Review, Expert Interview, Survey Design, Cold Emails, Due Diligence

Reference Upon Request