

YINGFEI JIANG

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EDUCATION

Master of Environmental Science and Management (6/20)

Bren School of Environmental Science & Management – University of California, Santa Barbara

Specialization: Energy and Climate, Economics and Politics of the Environment

Highlighted Coursework: Econometrics, Cost Benefit Analysis, Natural Resources Management, Climate Change Impact and Adaptation, Environmental Modeling, Economics of Environment Management

Master of Science, Materials Science and Engineering (6/18)

School of Engineering and Applied Science – University of Pennsylvania, Philadelphia

Highlighted Coursework: Energy Storage and Technology, Energy Systems and Policy, Climate Policy and Technology, Polymer and Biomaterials, Atomic Modeling in Materials Science, Semiconductor Science

Bachelor of Science, Physics (5/16)

School of Physics, School of Literature – Nankai University, Tianjin, China

Specialization: Physics for Materials

Bachelor of Arts, Chinese Language and Literature (2nd Major) (5/16)

School of Literature – Nankai University, Tianjin, China

Specialization: Contemporary Chinese Literature

WORK EXPERIENCES

LCA Engineer (11/21 – ongoing)

Bolt Threads, Emeryville, CA

- Developed Life Cycle Assessment (LCA) model for innovative bio-technology products with application including textile material, cosmetic ingredient, etc.
- Spearheaded impact reduction efforts through collaboration with research, process development, engineering, product development, and quality teams
- Led carbon management program including analyzing, communicating, and disclosing corporate carbon footprint (scope 1, 2 and 3)
- Led sustainability certification program including renewable energy credit, carbon offset, vegan certificate, etc.
- Collaborated with marketing and sales teams on effective impact communication with media and clients
- Coordinated relationship with external sustainability partners including industry groups, NGOs
- Hosted educational sustainability workshops for employees

Environmental Analyst (12/20 – 11/21)

VitalMetrics Group, Santa Barbara, CA

- Performed LCA in the context of wide-ranging projects and performing detailed calculations to find material flows, greenhouse gas emissions, ecological footprints, and other environmental, economic, and social metrics

- Analyzed the feasibility and decarbonization potential of state-of-art and emerging technologies in various industries for sustainable supply chain management
- Developed a greenhouse gas (GHG) abatement model based on an existing Economic Input-Output Life Cycle Assessment (EIO-LCA) model, which would provide scientific estimates on how various GHG abatement technologies would affect the GHG emissions of the corporates or the whole economy
- Performed Carbon Accounting for various organizations (scope 1, 2 and 3)
- Improved environmental database management, including data collection, database maintenance, and environmental data modeling

Adopt a Cookstove – Initiative on Improving Cooking Conditions in Rwanda (2/19 – 11/21)

University of California, Santa Barbara, Santa Barbara, CA

- Initiative to distribute high efficiency cookstoves to underprivileged communities in Rwanda and analyze their environmental benefits; the project was awarded a pilot grant for the UC-initiated offset projects
- Employed LCA to analyze the environmental impacts for common types of cookstoves used in Rwanda
- Presented in Africa's Readiness for Climate Change (ARCC) Forum hosted by University of California, Los Angeles in April, 2021
- Collaborated with Santa Barbara NGO World Dance for Humanity (WD4H) to establish a donation channel for continuous cookstove supply
- Project moving into the pilot phase with 100+ stoves distributed
- Established the data collection and management system for continuous monitoring of the project impact

Waste Watcher – Analyzing the Environmental Impacts of Sourcing Agricultural Wastes and By-products as Production Feedstocks (1/19 – 5/20)

University of California, Santa Barbara, Santa Barbara, CA

- Group project with Apeel Sciences; served as data manager
- Employed LCA to evaluate the environmental impacts of sourcing various agricultural wastes and by-products as feedstock
- Developed methods to determine the environmental impacts of agricultural wastes/by-products – the economic allocation method and the substitution method

SKILLS

- **Programming Languages:** R, Python, Java, Fortran 90, MATLAB, C++
- **Econometrics:** Linear and Logistic Regression, Matching Method, Propensity Score Method, Instrumental Variable Method, Fixed Effects and Difference-in-Difference Methods
- **Other Statistical Analysis:** Time Series and Geographic Analyses, Principal Component Analysis, Text Mining and Analysis, Clustering
- **Data Visualization:** Tableau, ggplot Package (R)
- **Environmental Metrics:** Life Cycle Assessment, Carbon Accounting (Carbon Footprinting)
- **Software:** SimaPro