

Focused on projects that promote sustainability for all

Roles

2018-Present: **Founder at [Emergi](#)**: ecological energy services cooperative creating sustainability for all
2014-Present: **Principal at [Scheier Ventures](#)**: advising, consulting, & collaboration for early stage ventures
2018-Present: **Advisor at [BEAM](#)**: crowdfunding platform for cleantech startups
Advisor at [Interfaith Power & Light](#): climate change solutions for communities
2017-Present: **Advisor at [Bonux](#)**: social blockchain asset trading and banking application
2018: **Advisor at [Rubius](#)**: blockchain asset wallet, exchange, and services
2017-2018: **Advisor at [Gold Alliance](#)**: risk management and tokenization in numismatic coin market
2016-2017: **Advisor at [3E Power](#)**: energy developer aiming to enter off-grid solar+ market
2016-Present: **Various at [Conlan Scientific](#)**: data science consulting and software development
2015-2018: **Founder at [Altfund](#)**: financial trading software development and consulting
2016-2018: **Founder at [CleanTechPulse](#)**: data science product development for cleantech
2013-2016: **Various at [Sol Systems](#)**: research and development, energy trading, solar finance
2015: **Fellow at [Clean Energy Leadership Institute \(CELI\)](#)**: SF & DC based seminars and networking
2013: **Trading Intern at [Sol Systems](#)**: Market research and operations for environmental commodity trading
2012: **Researcher at [The Joint Graduate School of Energy and Environment](#)**: LCA of a hybrid microgrid
2011: **Reporting Intern at [UNC Sustainability Office](#)**: write the biennial campus sustainability report
2010: **Researcher at [Cambridge University](#)**: literature review and community survey on carbon pricing
2010-2014: **Voting Member of [RESPC](#) at [UNC](#)**: student-run green impact investment fund (\$1m AUM)

Projects

- **Altfund**: Tools & Platform for Algorithmic Trading and Asset Management ([About](#), [Demo](#), [Code](#))
 - Tweet-driven trading bot for newsworthy events
 - Bayesian forecasting and risk management for prediction markets
 - **2011 UNC Campus Sustainability Report** ([PDF](#))
 - Structural modeling of environmental commodity markets
 - Data pipelines for numerous data types and asset classes
 - Quantitative assessment of energy burden by community in the united states
 - **CTP Dashboard**: Cleaning and mapping of distributed energy generator data in CAISO ([Demo](#), [Code](#))
 - Probabilistic record matching of public solar installation data to interconnection records
 - Financial pro-forma for renewable energy microgrid development
 - Financial business model of off-grid solar+ system supply chain and deployment
 - **Approaching the Tax Credit Horizon**: Where Will Commercial Solar Succeed? ([Media Article](#), [About](#))
 - Financial business model of seed stage crowdfunding platform
 - Structural model of US commercial solar market
 - **Comparative Life Cycle Assessment (LCA)** of a Diesel/PV/Wind Hybrid Microgrid ([Journal Article](#))
 - Risk model for solar asset management
 - E-commerce site selling financial model pro-forma templates
 - Cloud business analytics dashboard for a domestic pest control brand
 - **Cambridge Climate Change Mitigation Project**: Community strategy for Cambridge, UK ([Media Article](#))
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Education

The University of North Carolina, Chapel Hill, United States

Environmental Science (Energy & Sustainability, B.S., GPA 3.7) , Economics (B.A., GPA 3.4)
Mathematics (Minor), Entrepreneurship (Minor)

King Mongkut's University of Technology Thonburi, Bangkok, Thailand

Graduate Courses and Capstone Project: Energy Economics, Life Cycle Assessment

Cambridge University Department of Land Economy, Cambridge, England

Graduate Courses and Capstone Project: Carbon Pricing
