Siyi Zhang

siyiz@stanford.edu 617-631-4905
202 Running Farm Ln, Stanford, CA 94305

EDUCATION

Stanford University,
GPA: 3.94/4.00 MS Candidate in Atmosphere/Energy, Civil & Environmental Engineering. (June 2018)

Massachusetts Institute of Technology, B.S in Civil & Environmental Engineering (2016)
GPA: 4.7/5.0 Chi Epsilon Engineering Honor Society (2016), Denman K. McNear Scholarship (2015)

Wellesley College, B.A in Geosciences (2016)
GPA: 3.71/4.00 Sara Langer Award for Research in Geosciences (2012)

Relevant Coursework: Optimization of Energy Systems, Energy Policy Analysis, Data Mining and Analysis, Engineering Project Management, Java and C++ Programming, Operation Management, Finance, Accounting

WORK EXPERIENCE

Thinkstep Boston, MA
Life Cycle Assessment Summer Analyst June 2016- August 2016

- Built life cycle engineering models on 5+ consumer products using in-house sustainability software
- Summarized product sustainability performance in LCA reports and Environmental Product Declarations.
- Developed an Excel-based equivalency calculator tool to help clients understand product impacts in 6 environmental categories

Ramboll Environ San Francisco, CA
Environmental Consultant Intern June 2015- August 2015

- Provided technical analysis and writing support to 10+ facilities across the US, including GHG emissions inventory, litigation support, air permitting, health risk assessments, and EIRs;
- Performed multi-scenario off-road emission inventory analysis for a large land development project using Access
- Launched Environ's first Internship program video project; presented video to senior executives, managers and summer interns at a roundtable meeting

Accenture Shanghai, China
Management Consulting Intern July 2014- August 2014

- Created a detailed internal management process flow diagram for a major electric power company that spans 6 divisions and 4 stages using Visio
- Drafted new asset management protocols and summarized inconsistencies in asset management procedures from 10+ on-site interviews
- Co-Authored 2 internal papers on asset management and safety performance in China's power grid sector

Relevant Projects

Solutions Project Stanford. CA
Solar PV Team Lead September 2016- Present

- Estimate future rooftop solar potential for major US cities as part of the 100%-Renewable Roadmaps
- Lead weekly meetings on methodology development for estimating technical potential rooftop PV capacity

Impact of Climate Change on China's Air Pollution and Public Health Cambridge. CA
Undergraduate Thesis Researcher September 2015- June 2016

- Performed geospatial analysis on ~1000+ years of global air quality and climate model using Python and IDL
- Estimated mortality associated with climate-related air pollution using Monte Carlo simulations
- Co-authored "Evaluating the Atmospheric Chemistry Implications of Climate Policies for Human Health in the U.S. and China." International Global Atmospheric Chemistry Conference, Sept 2016

Human Mobility and Dynamic Air Pollution Exposure Cambridge, MA
Undergraduate Researcher at MIT Sensible City Lab September 2015 - March 2016

- Computed dynamic human exposure to PM2.5 by incorporating mobile-phone-based population activity
- Identified urban regions with similar spatial-temporal variation in PM2.5 exposure patterns using k-means clustering
- Work acknowledged in 'Exposure Track' - The Impact of Mobile Device Based Mobility Patterns on Quantifying Population Exposure to Air Pollution. Environmental Science & Technology. June, 2016.

Skills

Python, C++, ArcGIS, R, MATLAB, Gabi (LCA), CAD, Access, Visio, Arduino, LEED GA