

Mingyuhui (Jane) Liu

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EDUCATION

George Washington University, School of Engineering and Applied Sciences, Washington, DC Expected 05/2019

- Master of Science in Data Analytics (Engineering Management and Systems Engineering)
- Courses: CFA I Candidate, Big Data Practicum (HDFS, SQL), Decision Making with Uncertainty, Applied Machine Learning

Duke University, Nicholas School of the Environment, Durham, NC 05/2017

- Master of Environmental Management (Energy and Environment), GPA: 3.65/4.0
- Courses: Finance for High-Tech Industries, Business Fundamental; Microeconomics, Applied Data Analysis

Xi'an Jiaotong University, School of Energy and Power Engineering, Xi'an, Shaanxi, China 06/2015

- Bachelor of Engineering (Energy, Power System and Automation), GPA: 3.56/4.0
- Patent/National Prize: An Integrated Recycling Device for Lamp Bulbs with Mercury. (201420460262.1) Aug. 15th, 2014

WORK & ENTREPRENEURIAL EXPERIENCE

United Nations Economic Commission for Europe (ECE) Geneva, Switzerland

Consultant, Sustainable Energy Division 05/2017 – 08/2017

- Conducted in-depth data and policy research for 17 ECE regions to support the publish of the Energy Status Report 2017;
- Coordinated with 5 sub-team leaders to prepare a match-making event for energy investment in Energy Expo 2017;
- Updated ECE's database tracking the ratified National Determined Contributions of all 52 ECE member states.

The Nature Conservancy (TNC) Durham, NC

Economic/Behavior Analyst, North Carolina Science Division 05/2016 – 07/2016

- Delivered statistical reports for strategies on the TNC's Global City Program to the Steering Committee:
 - Initiated the project from scoping stage, and conducted in-depth background researches in economics and policies;
 - Compiled over 30,000 consumer behavior data points for 4 target countries -Brazil, China, India and US, and created scoring mechanisms for index weights to compare the pro-conservation consuming behavior across different cohorts;
 - Programed STATA to build multi-level generalized linear models and drafted an internal report from the results.

The Walla App, GenieUs, Inc. Durham, NC

Management Team, Duke Start-up Challenge 02/2016 – 05/2016

- Incorporated GenieUs, Inc., and participated in the seed and development stage of the company:
 - Built the business model for GenieUs, Inc., and campaigned for an alpha test in March, and attracted 350 participants;
 - Developed cash flow statement and revenue projections with \$5.7 million end cash of 5th year, based on estimated market size, technical & administration cost, and marketing & campaign cost, and pitched the plan to angel investors.

ANALYTICAL PROJECT

Comparison of Global Emission Inventories: Using Examples from US and China Durham, NC

Chief presenter/editor; Client: Earth & Earth Sciences Division, Duke University 08/2016 – 04/2017

- Programed Python through HPC to extract more than 10GB of data from emission datasets – EDGAR and ECLIPSE;
- Compiled, sliced and trimmed data to make them comparable, and compared the data to find 8% ~ 50% discrepancies in emission estimations between the datasets, then analyzed models and assumptions to identify the reasons for differences;
- Developed a handbook to instruct clients on which dataset to choose based upon their needs.

Cost-benefit Analysis of a Geothermal System in Gross Hall Durham, NC

Captain; Client: Duke Facilities Management 08/2015 – 12/2015

- Promoted a geothermal system to the client, which increases energy efficiency by 300%, achieves 260 MWh monthly energy saving and reduces average CO₂ emissions by 52 tons per month for Gross Hall;
- Presented to the client with building temperature models and an estimation of a 50-years' NPV of \$2.3 million, based on assumptions of 0.1 annual discount rate and overnight cost of \$100 /m².

LEADERSHIP

Intern Board: United Nations Economic Commissions for Europe 05/2017 – 08/2017

- Organized and arranged interns' activities, and managed interns' informations.

Captain/Director: Documentaries for Environmental Studies, Durham, NC 01/2017 – 04/2017

- Led the team to shoot footages, and edited the film with FinalCut for Sandy Creek Park (<https://youtu.be/uIQ4xyWlnv8>).

Official/Referee: Duke Recreation & Physical Education, Durham, NC 05/2016 – 04/2017

- Monitored and officiated Duke Intramural Sports, including refereeing, arranging lights and fields, performing first aids, etc.

Captain: Hong Kong University of Science and Technology: Global Citizenship Program 06/2013 – 08/2013

- Monitored group traveling process, and led the team in a presentation competition and won the second runner-up (3/20);

OTHER QUALIFICATIONS

Analytic Skills: Python (Numpy, SciPy, PANDAS, SKLearn), SQL, R (Bayesian Analysis), advanced Excel (VBA & Macros)