

Zhiyi(Mars) Guo

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Education

Carnegie Mellon University , H. John Heinz III College, Pittsburgh, PA	May 2022
Master of Science in Public Policy and Management	
Renmin University of China , Beijing, China	June 2020
Bachelor of Economics in Environmental and Resources Economics	

Skills

- Programming Languages: Python, R, SQL
- Data Analytics: Machine Learning, Deep Learning, Reinforcement Learning, Data Mining, Data Visualization
- Software: ArcGIS Pro, Tableau, GitHub, Jupyter Notebook, IBM Cloud, SPSS, Excel, Word, PowerPoint

Professional Experiences

Carnegie Mellon University	Pittsburgh, PA
Teaching Assistant, Introduction to Database Management	Sep 2021 - Dec 2021

- Assisted in teaching design of relational databases and creating basic database queries using SQL
- Held weekly office hours to help 70 students with relational databases and SQL questions in *MS Access*

Ping An Insurance Group	Shanghai, China
Investment Analyst Intern	May 2021 - Aug 2021

- Developed carbon intensity metrics for measuring the carbon footprints of investments in different sectors, which are currently applied in the sustainable investment strategy of the company
- Collaborated with a research team from Imperial College to conduct climate scenario analysis and stress testing on the company's portfolio, develop *Computable General Equilibrium (CGE) models* to explore the impact of carbon tax policy on China's overall economic environment

Seneca ESG	Shanghai, China
ESG Research Analyst	Mar 2021 – May 2021

- Developed research reports and wrote 3-5 digests per week on ESG, sustainable investment, climate change policies in English and Chinese, published in newsletters and LinkedIn
- Researched global and regional ESG disclosure standards and collaborated closely with the development team in creating product features to integrate different ESG disclosure standards
- Assisted the CEO directly in business development tasks, including contacting potential clients, planning marketing initiatives, writing marketing materials

World Resources Institute	Beijing, China
Data Analyst Intern, Global Water Program	Mar 2020 - Sep 2020

- Conducted quantitative research and spatial analysis and visualization about global water and physical climate risks to multinational corporates, utilized python to run the water stress evaluation model on global supply-chain and applied ArcGIS in geographical visualization
- Supported the development of machine learning algorithms for near-real-time water quality and quality monitoring and forecasts, collaborated with the State Key Laboratory of Hydro-Science and Engineering at Tsinghua university

Projects

Social media marketing strategy for Cadillac's LYRIQ EV	Sep 2021 - Dec 2021
• Developed social media strategy to build recognition and demand of the client's new product	
• Utilized social media intelligence to generate insights on what topics or what types of influencers would be effective and efficient in arousing engagement from potential customers on social	

Leadership & Honors

Chair, Heinz Energy and Environmental Policy Club
Chair, CMU Summit on US-China Innovation and Entrepreneurship