Yining Wang

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EDUCATION

M.Policy (Expected), Duke Kunshan University 08/2022-06/2024

- ✓ **Major |** International Master of Environmental Policy
- ✓ **Scores |** GPA 4.00/4.00
- ✓ **Courses |** Environmental Economics, Environmental GIS, Stats and Program Evaluation, Environmental Policy Analysis, Environmental Economics Policy Practicum, etc.
- ✓ **Ongoing Graduation Thesis |** CCUS Policies and Innovation: Evidence from Patent and Scientific Publication

B.Eng, South China University of Technology (SCUT) 09/2018-07/2022

- ✓ **Major |** Environmental Engineering (Full English Class)
  The Full English Class is a cooperative program of SCUT and Rutgers University, with all major courses taught in English by faculties from both SCUT and Rutgers.
- ✓ **Scores | GPA:** 3.61/4.00; **Ranking:** 5/13
  TOEFL: 116 (R30, L30, W28, S28) ; **IELTS:** 8.0 (R9.0, L9.0, W6.5, S6.5) ; **GRE:** 325 (V156, Q169)
- ✓ **Courses |** Environmental Science, Environmental Economics, Design and Installation of Environmental Engineering, Calculus, Linear Algebra, Probability and Mathematical Statistics, Physical Chemistry, etc.
- ✓ **Undergraduate Thesis |** *Distributive economic efficiency of air pollution total emission control system in China: an empirical study based on average abatement cost.* Used Stata for data analysis and visualization of end-of-pipe air pollution control cost in China's industrial sector between 2003-2015. Discussed the heterogeneity among provinces using average abatement cost as an indicator. Awarded excellent graduation thesis (15%).

RESEARCH EXPERIENCE

Research Assistant | Prof. Jingbo Cui | Duke Kunshan University 01/2023-Now

Research Assistant | Green Finance Forum of 60 | Duke Kunshan University 07/2022-12/2023

The research group is supervised by Prof. Junjie Zhang.

- ✓ *Carbon market report*. Conducted literature review and summarized the status quo of financial derivatives application in Chinese carbon market for the published report *The Development and Improvement of the Financial Attributes of the ETS Market*. Drafted systematic analysis on the potential opportunities and risks of each derivative.
- ✓ *ESG Indicator system*. Led a group of 6 student interns to construct a petrochemical industry-specific, quantitative ESG indicator system for Chinese firms as a component of a client-based project. Established project timeline, labor division and technical framework. Reviewed, compared and analyzed domestic ESG reports in petrochemical industry. Presented an indicator spreadsheet and a 15-page report to the client.

Research Assistant | Environmental Economics Research Group | SCUT 10/2020-07/2022

The research group is led by Prof. Li Liu and Prof. Dan Wu, which focuses on the inequality issues in energy economics.

- ✓ *Cost-estimation.* Independently conducted the cost-estimation module of the Cost-benefit Evaluation Project of Air Pollution Control Strategies in Chengdu Province (2018-2020). Summarized the investment and operation cost of SO_2, NOx and $PM_{2.5}$ control devices from literature and project reports. Estimated the pollution abatement cost in industrial, transportation, and residential sectors. Performed sensitivity analysis and marginal pollutant abatement cost analysis using Monte-Carlo analysis and quantile regression. Cooperated with two graduates, and contributed one-third to a 105-pages report.
- ✓ *Weekly seminar.* Presented reviews in weekly seminars on literature and ongoing research. Supported the knowledge base of the group by sorting the discussed research methods into documents, and looking into the quantile-quantile regression method. Assisted group members in data collection and literature reviews.

Research Intern | Mangrove Conservation Foundation (MCF) | Online 05/2021-06/2022

MCF is the first non-governmental public funding environmental foundation in China, aiming at wetland conservation. Hydrological engineering is an often-overlooked issue in mangrove restoration which China specifically lacks experience in.

- ✓ *Case study.* Searched and sorted the cases of hydrological engineering from global practice, including websites, manuals, guidelines, literature and governmental reports. Constructed the knowledge base for MCF by classifying the principles, restoration design methods and construction experiences.
- ✓ *Technical report.* Independently drafted a 21-page technical report for MCF. Demonstrated the logic among various hydrological restoration approaches by defining the degree of quantitative analysis. Exchanged ideas on the report with a MCF official weekly. The report will be put into practice as a methodology reference for future MCF restoration projects in Southeast Asia.
- ✓ *Equipment design*. Designed the prototype of an environmentally friendly and cost-effective seed barrier for a restoration program in Fucheng, Zhanjiang city to prevent invasion species using local green materials.

Lab Assistant | Research group of Prof. Yuan Ren | SCUT 03/2020-03/2021

- ✓ *Lab experiments.* Main contributor of zebrafish breeding, anatomy and motor behavior analysis in the project "The toxicology effect of Pharmaceuticals and Personal Care Products (PPCPs) on zebrafish". Kept maintenance of the breeding system, dissected the organs of over 100 adult zebrafishes, and took microscopic photos of larvae.
- ✓ *Literature review.* Reviewed the research methods and results of relevant literature about PPCPs toxicology experiments on zebrafish. Specifically researched on the toxicological effect of citalopram on the morphology of zebrafish embryo and larvae and concluded into a 7-page document.

OTHER

Course Project

- ✓ Environmental GIS 759K: Estimated the potential mitigation of storm surge losses through mangrove restoration in Guangzhou, China using ArcGIS.
- ✓ Environmental Policy Analysis 871K: Led a 4-member team. Conducted policy analysis and proposed policy alternatives for emission abatement of waste-to-energy plants in Beijing. Constructed a simple integrated assessment system for quantitative cost-benefit analysis and outcome projection for each alternative.
- ✓ Environmental Sciences 806K: Led a 5-member team. Performed meta-analysis on the environmental risk of different carbon storage technologies. Identified research frontier, gap and heterogeneity across technologies.

Teaching Experience

- ✓ *Teaching Assistant* | ECON 202: Intermediate Microeconomics II | Duke Kunshan University

Other Languages

- ✓ Cantonese (Native), Japanese (Fluent)

Computer skills

- ✓ *Programming:* Python, LaTeX
- ✓ *Data analysis:* Stata, R, Excel
- ✓ *Engineering drawings:* SolidWorks, AutoCAD
- ✓ *Presentation tools:* LaTeX, Tableau, Origin
- ✓ *Visual design:* Premier Pro, Photoshop, After Effects