

YIMING SONG

Prospective PhD Candidate — Natural Hazard Forecasting & Environmental Data Science

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PROFILE

Environmental Science graduate with five years of laboratory and analytical experience in environmental testing, recently complemented by a Master's in Financial Innovation and Fintech at UPC (Barcelona), with distinction in data analysis, AI/machine learning and quantitative risk modules. Seeking to return to a research track via a PhD on disaster forecasting, extreme events and radar-based rainfall estimation, combining an environmental-science foundation with data-analytics skills and industry experience with scientific instrumentation.

EDUCATION

Universitat Politècnica de Catalunya (UPC) — Euncet Business School 2025 – 2026

Master's Degree in Financial Innovation and Fintech · Barcelona, Spain · Final grade: 8.36/10 (Notable)

- Data Analysis, Artificial Intelligence and Machine Learning in Finance — 9.8/10 (Sobresaliente)
- Blockchain and Decentralized Finance — 10.0/10 (Matrícula de Honor)
- Analysis and Control of Risks — 9.4/10 (Sobresaliente)
- Master's Thesis (Trabajo de Fin de Máster) — 7.8/10 (Notable)
- Coursework taught and assessed in English; program completed in an international, multidisciplinary cohort

Qufu Normal University

2013 – 2017

Bachelor's Degree in Environmental Science · Shandong, China

- Relevant coursework: Environmental Monitoring, Environmental Engineering, Environmental Chemistry, Water Pollution Control, Hydrobiology and Water Environment Assessment, Ecology, Ecological Toxicology, Instrumental Analysis, Biostatistics
- Undergraduate thesis on environmental/water treatment topic (graded Good)

PROFESSIONAL EXPERIENCE

PerkinElmer Management (China) Co., Ltd.

2022 – 2025

Regional Sales Manager, Suzhou · Analytical & scientific instrumentation

- Managed the regional portfolio of analytical instruments used in environmental, industrial and life-science testing, working closely with laboratories and environmental monitoring agencies
- Translated technical/scientific requirements between R&D, application specialists and end users, maintaining close contact with the analytical-testing and environmental-monitoring sector
- Developed client relationship management, project coordination and cross-functional communication skills

Jiangsu Kangda Technology Co., Ltd.

2017 – 2022

Report Auditor (2020 – 2022) → Laboratory Analyst (2017 – 2020)

- Conducted environmental and chemical laboratory analysis, following standardized testing and QA/QC protocols
- Reviewed and validated analytical reports for technical accuracy, data integrity and regulatory compliance
- Built a solid foundation in rigorous data handling, documentation and quality control — directly transferable to observational/measurement-based research

RESEARCH INTERESTS

Disaster forecasting and extreme-weather prediction; radar-based rainfall estimation; real-time flood risk assessment; hydrological and water-resources informatics; application of data analysis and AI/machine-learning methods to environmental and climate-hazard problems — an interest that motivates applying to Prof. Shinju Park's research group at UPC.

SKILLS

- Data & Quantitative Analysis: data analysis and AI/ML foundations (Master's coursework), statistics, risk analysis
- Laboratory & Environmental Analysis: instrumental analysis, environmental monitoring, QA/QC, technical report review
- Languages: Chinese (native), English (fluent — full Master's programme completed in English), Spanish (beginner, living in Barcelona)
- Other: client and stakeholder management, cross-cultural communication, project coordination

PERSONAL INTERESTS

Tennis, fitness training, and outdoor sports.