

NI (JOYCE) ZHU

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA Jun 2013

- Master of Engineering in Environmental and Water Quality Engineering

National University of Singapore, Singapore 2008 – 2012

- Bachelor of Engineering (Environmental Science) Honors GPA 4.25/5.00

Purdue University, West Lafayette, IN Fall 2011

- Selected to participate in the Student Exchange Program

PROFESSIONAL EXPERIENCE

Housing & Development Board, Singapore, Dec 2011
Research Intern

- Completed a comprehensive feasibility study on gray water recycling in HDB estates; Findings are used extensively to support implementation of the project
- Conducted a project on siting and designing of floating wetland in new Punggol Waterway; Design proposal was selected as the base design for future implementation

Australian National University, Canberra, Australia Jun 2010

- Selected as 1 of the 3 NUS delegates to attend IARU Global Summer Program on International Environmental Policy

RESEARCH

Final Year Dissertation 2011– 2012

- Collaborated with Singapore Public Utility Board on a 1-year project to investigate the contaminant removal performance of a pilot-scale UV/H₂O₂ reactor in Chua Chu Kang Waterworks
- Initiated a lab-scale Granular Activated Carbon Column to optimize the removal performance of oxidation byproducts produced

NUS Department of Marine Science, 2007
Laboratory researcher

- Attached with NUS Department of Marine Science under Science Research Program to conduct research on taxonomy and documentation of cyanobacteria in the local sea

LEADERSHIP

Institute of Engineers (Singapore), NUS Branch 2009 – 2010

Executive Board

- Initiated and organized regular networking events to connect the NUS IES members with IES alumni
- Contacted companies and arranged a well-received company visit for a group of approximately 30 students

AIESEC NUS Social Entrepreneurship Project, 2008 – 2010

Director for External Relation

- Liaised with AIESEC partners and secured funding for the project
- Initiated and arranged interviews with several local social entrepreneurs to raise awareness about social entrepreneurship among NUS student body
- Launched a campus-wide Social Entrepreneurship Week that included two panel discussions which attracted hundreds of students, a 1-day workshop which accommodated 30 students and an exhibition at the university which featured several successful social enterprises

AWARDS

- NUS Engineering Dean's List 2011
- NUS Engineering Scholarship for PRC Undergraduate 2008-2012
- Singapore Ministry of Education Pre-U Scholarship and Junior-Middle 1 Scholarship 2007-2008
- Singapore Youth Festival Competition for Strings Gold with Honors 2008

SKILLS

- MATLAB, AutoCAD, C Language, MS Office, Photoshop, Mandarin (native)