

Jialing Wu

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Education

Vanderbilt University, Peabody College, Nashville, TN, U.S.A. Expected May 2024

Master of Education, International Education Policy and Management; GPA:4.0/4.0

- *Relevant Courses: Research Design and Data Analysis I & II, Applied Qualitative Data Analysis, Learning and Instruction, Economics of Education/Education Policy*

Shanghai University, Shanghai, China July 2017

Bachelor of Engineering, Mechanical Engineering

Research Interests

Engineering Identity; Instructional Strategies; Advanced Quantitative Methods; Applying Technology in Engineering Education Research

Conference

2024 American Society for Engineering Education (ASEE) Oct. 2023

Abstract Submitted

- High School Students' Perspectives on Pre-college Engineering Education Courses (WIP)
- High School Students' Perspectives on Mathematical Modeling (RTP)

Research and Project Experience

Vanderbilt University, Peabody College, Nashville, TN, U.S.A. Sept. 2023-Present

Graduate Research Assistant

(Supervisors: Dr. Carolyn J. Heinrich, Dr. Jennifer Suzanne Darling-Aduana)

The project investigates whether high school students can obtain answers to online exam questions through online searches and explores the potential impact of such exams on the labor market.

- Search over 150 questions in OCR files and papers from the Edmentum test; document Bloom's taxonomy of questions and search results from Google, charging platforms, and ChatGPT; verify if these platforms provide correct answers
- Collaborate with supervisors to ensure inner coding reliability, identify special categories for questions, and refine the code definitions and standards for the coding process

Engineering for Us All (e4usa), Nashville, TN, U.S.A. June 2023-Present

Graduate Research Assistant

(Supervisors: Dr. Stacy Klein-Gardner, Dr. Medha Dalal)

Engineering for Us All (e4usa) is a first-of-its-kind, national initiative designed to introduce engineering design principles to a new generation of students.

- Conduct qualitative analysis on open-ended responses from 22-23 post-test students' surveys, develop codebooks, and clarify the definitions in pretest survey (n = 623) and post test survey (n = 296)
- Code students' foreseen careers into 3 categories and list the top 5 aspects that support or inhibit the engagement in the engineering courses reported by students; analyze relationship between students' background and career choice
- Analyze focus group data from teachers and students and explore their experience in mathematical modeling through MATLAB activities; compare the code themes with the cognitive load theory to identify potential improvements in instructional design
- Draft abstract of 2 conference papers for 2024 ASEE, lead the research group meeting, and manage project timelines
- Revise the Unit 2 curriculum, changing the topic from water filters to wind turbines; revamp 5 lessons and 9 activities, adapted 8 lessons and 7 activities, and overhauled teaching slides and assignments; redesign MATLAB code and associated activities; collect teacher feedback on the curriculum during pilots and new semester
- Draft memos for facilitators in the summer teacher professional development programs, ensure the proper form of Google forms, and verify the correct links of asynchronous activities on the Canvas learning management platform

Leadership and Work Experience

AIQUZHI Volunteer Group, Shanghai, China

July 2017-Present

Program Coordinator and Teacher

AIQUZHI seeks to build communities among urban youth while providing educational support for migrant children.

- Designed a questionnaire to assess the operational status of all projects, including activities, frequency, and platforms; utilized online survey tools to gather information monthly and produced annual reports
- Coordinated and implemented over 40 project-based workshops for migrant children in elementary schools from 2017 to 2020; taught how to reuse old materials in daily life to make paper models, bags, stationery boxes, and decorations
- Served over 110 children, guided students to reflect on environmental protection issues, assisted them in completing independent and cooperative projects to help build positive social relationships with peers and volunteer teachers
- Recruited 80 volunteer teachers, interviewed, and selected excellent candidates by considering their communication skills, hands-on ability, and volunteer experience, etc.
- Trained over 50 volunteer teachers, introduced the identity and background of migrant children, and shared manual skills used in formal classes to enhance teachers' ability to interact with rural-urban children
- Organized weekly wrap-up meetings to collect feedback on handwork lessons from volunteer teachers and published 50 follow-up articles based on the information on social media, resulting in over 3,000 views

Shanton Way Executive Search Co., Ltd., Shanghai, China

July 2017-July 2022

Senior Consultant

An Asia-based headhunting firm with offices in Hong Kong, Singapore, and Shanghai (headquartered).

- Communicated with clients and educational companies to understand their needs for academic and non-academic positions including principals, department heads (e.g., STEM outreach center Director), and commercial team members including COO, Admission and Marketing Directors and Financial Directors
- Collaborated with clients in the fields of consulting, finance, industry, internet, and pharmaceutical; recruited senior management personnel, including CEOs, CTOs and engineering professionals
- Investigated information on clients' local and national counterparts and determined search methods
- Recruited potential candidates on LinkedIn and other recruiting platforms; managed a candidate pool of over 1,500 people in international schools, bilingual schools and K-12 educational companies via phone calls or social media
- Marketed clients' organization and hiring positions and assessed candidates' fit based on their career plans and goals
- Interviewed and evaluated candidates by exploring their experience and skills in dealing with policy and cultural conflicts in international environments, recommending suitable candidates to clients according to their demand

Leadership and Service

- e4usa Program Coordinator; Wind Turbine Competition at IEEE-ECCE conference for high school students (2023)
- Founding Member and Treasurer; International Mentorship at Peabody (iMAP), Vanderbilt University (2023-2024)
- Mentor; Peabody Peer Career Mentor Program, Vanderbilt University (2023-2024)
- Mentor; Peabody International Students and Affairs, Vanderbilt University (2023-2024)

Scholarships and Awards

- Scholastic Achievement Scholarship, Vanderbilt University, Peabody College (2022)
- University Scholarship for Academic Excellence, Shanghai University (2015, 2014)

Skills

- Technical: Stata, R, MATLAB, CAD, SOLIDWORKS
- Languages: Mandarin (native), English (proficient)