

Renxuan Yao

renxuanyao@foxmail.com | +86 13773044063
2-1-801, Jingdu Building, Yueqing, Zhejiang

EDUCATION

Brown University | Graduate School

Sept. 2025 – May. 2027

- Expected Sc.M. in **Computer Science**

Temple University | College of Science and Technology

Sept. 2021 – Dec. 2024

- B.S. in **Computer Science**, Minor in **Mathematics**
- Major GPA: **4.00/4.00**, Overall GPA: **3.94/4.00**
- Honor & Award: **Dean's List, Scholarship for Undergraduate Continuing Students**

PROFESSIONAL EXPERIENCE

United World College Changshu China

Jan. 2025 – Present

Intern of Educational Technology & Information Systems Department and Math Department

- Automated Python/SQL pipelines for student attendance data (grades, classes, living units), reducing manual processing by 30%.
- Built a self-hosted PHP/JavaScript dashboard to visualize attendance trends and support administrative decision-making.
- Conducted user interviews to align tools with educator workflows via user-centered design principles.
- Teach Grade 9–12 mathematics courses with individualized lesson plans for diverse academic levels.

RESEARCH EXPERIENCE

Research on Deep Learning Techniques for Data Imputation in Geological Datasets from Philadelphia

Supervised by Prof. Longin Jan Latecki, Temple University

Jun. 2024 – Present

- Designed deep learning models (MLP, Transformer) for long-term missing value imputation in geological datasets.
- Evaluated Python (SkLearn, MissForest) and R (ImputeTS, Mtsdi) libraries for imputation performance on Philadelphia SMP datasets (volumetric water content).

WhiteBoard Assistant: Interactive Web Application for Interview Preparation

Supervised by Prof. Ian Applebaum, Temple University

Sept. 2024 – Dec. 2024

- Developed a React.js web app with MyScript API integration to digitize handwritten whiteboard input for real-time coding interview feedback.
- Engineered a responsive UI for tool selection, problem submission, and cross-device compatibility (stylus/tablet optimized).

LEADERSHIP EXPERIENCE

President, Coding Club, Temple University, Japan Campus

Jan. 2023 – Dec. 2023

- Led a 50+ member club: Managed operations (budget, events, promotions) and mentored newcomers through Python/JavaScript training workshops.
- Spearheaded development of a club webpage (course management, event reminders) and Android app to showcase member projects and integrate Python tools.

Computer Science and Mathematics Tutor, Temple University, Japan Campus

Jun. 2023 – Dec. 2023

- Tailored one-on-one tutoring sessions per learning needs and fostered a supportive learning environment
- Assisting first- and second-year students in understanding CS and mathematical principles, including introductory-level programming, object-oriented programming, operating systems, data structure, discrete mathematics and calculus

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, JavaScript, Kotlin, MATLAB, PHP
- **Tools & Frameworks:** Git, Android Studio, JetBrains suite, Pyqt-5
- **Others:** Linux, Agent-Based Modeling, Machine Learning (NumPy, PyTorch), UX Design, PostgreSQL, Software Design, HTML, CSS
- **Personal Websites:** [Github](#), [Linkedin](#)