

YIZHOU YANG

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EDUCATION

Ph.D. in Civil Engineering

Jan 2024 – Present

The University of Alabama, Tuscaloosa, AL

- **Research Focus:** Building energy performance, solar energy integration, and sustainable infrastructure.
- **Advisor:** Dr. Qiuhua (Lisa) Duan

Master of Science in Building/Construction Science and Management

Virginia Polytechnic Institute and State University, Blacksburg, VA

Jan 2021 – May 2022

- **Courses:** Advanced Lifecycle BIM for Facility Management, Applied Building Sciences, Sustainable Infrastructure Systems, Global Virtual Design & Construction, Infrastructure Asset Management.

Bachelor of Science in Building Construction

Virginia Polytechnic Institute and State University, Blacksburg, VA

Jan 2015 – May 2019

- **Courses:** Construction Practice, BIM in Design & Construction, Process Planning and Design, Digital Construction & Manufacturing, Building Systems; Specialization (Virtual Design and Construction).

RESEARCH EXPERIENCE

Graduate Research Assistant

Jan 2024 – Present

Department of Civil, Construction, and Environmental Engineering, The University of Alabama, Tuscaloosa, AL

- Co-authored a “Systematic review of building energy performance forecasting”, evaluating methods and tools for energy predictions.
- Contributed to the study ‘Solar Energy Potential and Integration in Alabama Residential Buildings: A Photovoltaic System Feasibility Study,’ for the American Solar Energy Society 2024 Conference.
- Assisted in drafting the paper “Enhancing Building Performance with Solar Heating Reflective Coatings: A Review of Thermal and Electrical Implications on Building Envelopes.”

CONFERENCE PRESENTATIONS

Poster Presentation

- Qiuhua (Lisa) Duan^{1*}, **Yizhou Yang**¹, Babatunde Owolabi¹. (May 2024). “Solar Energy Potential and Integration in Alabama Residential Buildings: A Photovoltaic System Feasibility Study”, Poster session presented at American Solar Energy Society (ASES) 2024 Conference, *Washington, D.C.*

Reward: the JEDI Scholarship Award

PROFESSIONAL EXPERIENCE

Field Designer

Sep 2022 – Aug 2023

Full-time, Yindividual LLC

Blacksburg, Virginia, The United States

- Designed robotics arenas and competition venues, including assembly and testing.
- Supervised work site to ensure safety compliance.

Junior Engineer

April 2020 – August 2021

Full-time, Architectural Design Department, Jiangxi Coal Mine Design Institute

Jiangxi, China

- Participated in green building design, feasibility studies, master plans, schematic designs, and construction drawing evaluations.
- Produced energy-saving reports and conducted technical evaluations using software like **AutoCAD**, **Revit**, **Navisworks**, **Photoshop**, and **GreenBuildingsware** (LEED).
- Reviewed construction plans and progress plans, participated in drawing meetings, and assisted in solving technical problems during construction.

Reward: Outstanding Employees of the Quarter

Intern Architect

July 2018 – Aug 2018 / July 2019 – Dec 2019

Full-time Intern, Design and Research Institute of Nanchang University

Jiangxi, China

- Managed the technical data of engineering design, including collection, organization, filing, and transfer.
- Communicated with design units on professional issues, drafted change orders, reviewed design changes, and monitored design processes to ensure timely adjustments.
- Assisted in developing technical drawings for building monoliths (flat, elevation, and section) and developed electrical schematics for the **Jiangxi Provincial Party School Teaching and Training Building**.

CAMPUS EXPERIENCE

Graduate Teaching Assistant

Dec 2021 – May 2022

- Assisted 110-120 undergraduate students in BC3064 Integrated Construction II course with BIM modeling design and mechanical drawings troubleshooting.
- Helped the instructor create course assessments and track assignments and attendance.

TECHNICAL SKILLS

- Programming Languages and Mathematical Packages: Python, NumPy, Pandas.
- Computer-Aided Design/Engineering: Revit, AutoCAD, Navisworks, SketchUp, Rhino, Grasshopper, GreenBuildingStudio, THERM, WUFI, WINDOWS.
- Building Energy Modeling and Simulation Tools: EnergyPlus, OpenStudio.
- Design and Visualization Software: Adobe Photoshop, Adobe InDesign.
- Operating Systems: Windows OS, MAC OS.

LANGUAGES

English (fluent)

Chinese (Native)

REFERENCES

Qihua (Lisa) Duan, Assistant Professor

Department of Civil, Construction, and Environmental Engineering

The University of Alabama

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Ye Guo, Deputy Chief Engineer

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