

Jiachen Yu

Civil Engineering | Structural Mechanics | Numerical Simulation
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PROFILE

Civil engineering student trained in China and France, focused on structural mechanics, finite element analysis, numerical simulation, and building performance. Hands-on experience in design institutes, building material testing, Revit modeling, load analysis, and research on mortise-and-tenon structures. Tools: Python, MATLAB, ANSYS Workbench, SolidWorks, Revit, AutoCAD, PKPM, and VBA.

EDUCATION

2026.09-2027.06	Université Paris-Saclay / Centrale Engineering School M2, Modeling and Simulation of Structures and Coupled Systems; expected English-taught program; L'Usine Nouvelle engineering school ranking No. 2; focus on computational mechanics, CAE, model reduction, inverse problems, and parameter identification.
2025.09-2026.06	Université Paris-Saclay M1, Mechanics and Mathematical Methods Coursework: continuum mechanics, FEM/MEF, Python, SolidWorks, ANSYS, asymptotic analysis, numerical analysis.
2024.09-2025.06	CY Cergy Paris Université Double Degree Exchange, Civil Engineering Coursework: steel structures, building thermal performance, concrete materials, reinforced concrete, soil mechanics, structural loading, fluid mechanics, VBA, construction technology, surveying.
2021.09-2024.06	Zhejiang University of Science and Technology Bachelor of Engineering, Civil Engineering Coursework: French, theoretical mechanics, civil engineering fundamentals, AutoCAD, Revit.

EXPERIENCE AND PROJECTS

2025.10-2026.05	Université Paris-Saclay Research thesis: numerical modeling of mortise-and-tenon structures Built mechanical and geometric models, calculated stress/deformation under loading, predicted behavior by simulation, and optimized structural stability and load-bearing capacity.
2025.04-2025.06	Zhejiang Huazhan Design Institute Architectural design intern Used AutoCAD and PKPM for building structural analysis; drafted structural technical reports.
2025.01-2025.04	Ilot Polaris Development Zone Construction Project team member, France Prepared technical solutions for foundation, infrastructure, and superstructure design; created Revit models, supported load analysis, member sizing, construction drawings, site planning, cost estimation, and progress evaluation.
2023.06-2023.08	Safe Fingers Project leader; National Undergraduate Innovation Competition Bronze Award Led a hand-rehabilitation innovation project and coordinated team development through the competition process.
2021.07-2021.08	Zhejiang Xinming Construction Engineering Testing Co., Ltd. Laboratory intern Conducted material sampling and compression testing; evaluated safety and quality compliance for construction use.

LEADERSHIP, HONORS AND SKILLS

Leadership & service: President, Campus French Association; volunteer, Hangzhou Asian Games; volunteer, World Internet Conference.
Honors: First-Class University Scholarship; Third-Class University Scholarship; Merit Student; International Student Scholarship.
Technical skills: structural analysis, FEM/MEF, CAE simulation, load analysis, model reduction, Python, MATLAB, ANSYS, SolidWorks, Revit, AutoCAD, PKPM, VBA.