Yongyun Jin

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Education

- **Tianjin University** — Tianjin, China
  M.Eng. - Civil and Hydraulic Engineering; GPA: 3.47 — *Sep 2020 - Present*
  Courses: *Architecture Design, Machine Learning Algorithms and Applications, Thermodynamics, Electricity/Electronics, Building Thermal Environment and Intelligentization, Building Information Modeling in Architecture, Lean Supply Chain Management*

- **Qingdao University of Technology** — Qingdao, Shandong, China
  B.Eng. - Energy and Power Engineering; GPA: 3.24 — *Sep 2016 - Jun 2020*
  Courses: *Advanced Mathematics, Linear Algebra,Probability Theory and Mathematical Statistics, C Programming, Heat Transfer, Thermodynamics, Fluid Mechanics, Automatic Control Principle, Mechanical Design, Numerical Heat Transfer, Air Conditioning, Refrigeration Principle and Equipment, Heat Pump, Thermal Testing Technology, Renewable Energy, Pumps and Fans, Combustion*

Experience

- **PKPM Co,Ltd** — Internship
  Building Information Modeling Technician — *Oco 2021 - Present*

- **Tianjin University Research Institute of Architectural Design & Urban Planning** — Internship
  3D Modeler — *Aug 2021 - Sep 2021*

- **Architectural Design and Research Institute of Tsinghua University** — Internship
  Energy Analyst — *Jun 2021 - Jul 2021*

- **Qingdao KACA Culture Media Co,Ltd** — Entrepreneurship
  Executive Director — *Apr 2018 - Jun 2020*

Projects

- **National Key R & D Program of China** [**No. 2019YFD1101004**]: Developed active and passive energy solutions for two practical demonstration projects, aiming to achieve 90% energy savings with no more than 30% cost increment.
- **Tianjin Natural Science Foundation** [**No. 18JCQNJC08200**]: Provided theoretical and modeling support for energy-efficient and intensive design of assembled concrete houses in cold regions.
- **Opening Fund of State Key Laboratory of Green Building in Western China** [**No. LSKF201904**]: Proposed a prefabricated method to improve the thermal behavior of wheat straw materials in steel buildings.
- **State Grid Corporation of China** [**No. KJ20-1-49**]: Renovated the first zero-energy building in Tianjin to offer a one-stop, full-scene, custom-made solution for the whole life cycle.

Publications

- **Dynamic Characteristics and Adaptive Design Methods of Enclosed Courtyard: A Case Study of a Single-Story Courtyard Dwelling in China**: *Building and Environment 2022.* Meiling Li, **Yongyun Jin**, Juanli Guo*.
- **A Quantitative Analysis on Key Factors Affecting the Thermal Performance of the Hybrid Air-Based BIPV/T System**: *Buildings 2022.* Juanli Guo, **Yongyun Jin**, Zhenyu Li*, Meiling Li.
- **Research on Design and Thermal Performance of Integrated Pipeline Biomass Heat Storage Wall**: *Acta Energiae Solaris Sinica 2022.* Juanli Guo, **Yongyun Jin**, Meiling Li, Jianhua Zhao*, Zhe Liu.
- **Numerical Study on the Thermal Properties of Prefabricated Double Steel Plate Composite Shear Wall** : *Journal of Tianjin University* (Accepted in 2022). Juanli Guo, **Yongyun Jin**, Meiling Li, Zixin Jiang, Ting Zhou*.
- **Architectural Potential of Wheat Straw Waste Processed by Thermo-compression: From the Perspective of Hygrothermal Behavior**: *Construction and Building Materials* (Under review). Juanli Guo, **Yongyun Jin**, Renjie Xu, Jianhua Zhao*, Yue Wang.
- **Effects of Joint Tolerances on Thermal Bridging in Precast Elements**: *Energy and Buildings* (Under review). **Yongyun Jin**, Wenli Zhao, Meiling Li, Juanli Guo, Jiehui Wang*.

Honors and Awards

- **M.Eng.**: China National Scholarship, Second Prize in 2021 Active House Award, First Prize in 2021 BIM Elite Competition, Excellence Award in 2020 International Solar Building Design Competition, Merit Student, First-Class Academic Scholarship
- **B.Eng.**: Excellent Student of Shandong Province "Thousand Villages Project", Orica Qingdao Merit Scholarship, Excellent Intern of Qingdao Municipal Organs, Excellent Research Team Leader, Outstanding Graduate

Skills Summary

- **Tools**: Python, MATLAB, COMSOL Multiphysics, EnergyPlus, SketchUp, Rhinoceros, AutoCAD, Revit, BIMBase
- **Languages**: Mandarin (Native), English (Duolingo 130), Korean (Fluent)
- **Interests**: Humanoid Robot (First Prize in "HIT Cup" National Championship), Calligraphy (Bronze Award of PHE International Art Conference), Photography (Personal Studio)