

**Dr. Yi Jiang PhD, P.E, LEED AP**  
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## **WORKING EXPERIENCES**

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**XIN Center, Tsinghua University** **2014 – date**  
**Executive Deputy Director, General Manager**

As the general manager of XIN Center, Dr. Jiang takes full responsibilities for recruiting the most excellent students and scholars from Universities for entrepreneurship training; bringing top venture capital institutions together; establishing an effective eco-system to nurture high-tech incubation projects chosen on a regular basis. XIN Center of Tsinghua University is also the China-Israel 7+7 Research Universities Alliance Secretariat.

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**School of Green Building, Nanchang University** **2012 – 2014**  
**Built environment group (Tianjin)**

Appointed as Distinguished Professor and Dean of School of Green Building by Nanchang University.

Founder of Built environment group (Tianjin), worked with government agencies, large corporations, and renowned research institutes to find common areas of interests, to plan research objectives and schedule, and to fund the projects. Dr. Jiang worked with several leading real estate developers in China, such as Vanke, Vanda, and Soho China, etc to develop technology solutions that can be scaled and broadly applied to building and community district development. Within less than two years, the technology solutions have been applied to over 500,000 square meters building spaces, which resulted in significant economic, environmental and social benefits.

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**United Technologies Research Center** **2007 – 2012**  
**Group Leader of Integrated Building Division**

Appointed as Group leader of Integrated Building Division, led a 50-people research team with members from both of Tsinghua University (four departments) and UTC Research Center to work on a five-year, five-million US dollar research program. The objective is to develop a cutting-edge building integrated control platform, which allows the acquisition of building environmental data and occupants' behavior, information fusion, development of optimized building comfort, energy and safety algorithm, and execution. The successful R&D operation and completion led to the second five-million US dollar award from UTC to the Tsinghua team.

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**Sebesta Blomberg & Associates, Project Manager** **2002 – 2007**

**RES Engineering, Senior Project Engineer**

Worked as MEP consultant by providing analysis, design, and commissioning services on energy efficient building systems for green building design.

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## **EDUCATION**

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PhD student in Building Technology, Massachusetts Institute of Technology (MIT); Minor: Business Administration	1998 – 2002
M.S. in Mechanical Engineering, Washington State University (WSU)	1996 – 1998
B.S. in Thermal Engineering, Tsinghua University	1991 – 1996

## **SELECTED PAPERS**

- [1] **Jiang Y**, Chen Q. Effect of fluctuating wind direction on cross natural ventilation in buildings from large eddy simulation. *Building and Environment*, 2002, 37(4): 379-386.
- [2] **Jiang Y**, Su M, Chen Q. Using large eddy simulation to study airflows in and around buildings. *ASHRAE Transactions*, 2003, 109(2): 517-526.
- [3] **Jiang Y**, Bacall A, et al. Design of a Green Demo Building in a Hot and Humid City in China. 2006.
- [4] **Jiang Y**, et al. Design guide to improve outdoor thermal comfort. The sixth International Association for China Planning (IACP) Conference. 2012.
- [5] Lai D, Zhou C, Huang J, **Jiang Y**, Z long, Q Chen. Outdoor space quality: A field study in an urban residential community in central China. *Energy and Buildings*, 2014, 68: 713-720.
- [6] Zhao Q, Zhao Y, Wang F, Wang J, **Jiang Y**, Zhang F. A data-driven method to describe the personalized dynamic thermal comfort in ordinary office environment: From model to application. *Building and Environment*, 2014, 72: 309-318.
- [7] Zhou H, Qiao L, Sun H, **Jiang Y**, Chen Q. Recognition of air-conditioner operation from indoor air temperature and relative humidity by a data mining approach. *Energy and Buildings*, 2016.
- [8] Zhou H, Zhou X, Chai D, Zhang Y, Li Y, Qiao L, **Jiang Yi**, Sun H. A wireless indoor environment sensing system and data analysis methods. *Proceedings of Indoor Air 2016, Ghent (Gent), Belgium*, 2016.

## **PATENTS AUTHORIZED**

- [1] Qiao, L., Zhang, H., Yang, R., Chu, Y., Guo, S., Wang, H., Jia, Q., Zhao, Q., **Jiang, Y.**, and Narayanan, S., "Fire evaluation and evacuation guide system in buildings", Chinese Utility Mode Patent, ZL201020298804.1 [P]. 2011.5.
- [2] Jiang, Y., Wang, F., Jiang, Z., Hou, Y., Zhao, Q., Liu, Y., Zhang, F., and **Jiang, Y.**, Two-way interaction of built environment control system, Chinese Utility Mode Patent, ZL201020292981.9 [P]. 2011.3.
- [3] Qiao, L., Zhang, H., Yang, R., Chu, Y., Guo, S., Wang, H., Jia, Q., Zhao, Q., **Jiang, Y.**, and Narayanan, S., Fire evaluation and evacuation guide system in buildings, Chinese Utility Model Patent, ZL201020298804.1 [P]. 2011.5.
- [4] **Jiang, Y.**, Wang, F., Jiang, Z., Hou, Y., Zhao, Q., Liu, Y., Zhang, F., and **Jiang, Y.**, Two-way interaction of built environment control system, Chinese Utility Model Patent, ZL201020292981.9 [P]. 2011.3.
- [5] **Jiang, Y.**, Indoor Environmental Monitor Station, Chinese Appearance Patent, ZL201430050328.5 [P]. 2014.3.
- [6] **Jiang, Y.**, Indoor Environmental Monitor Station, Chinese Utility Model Patent, ZL201420110042.6 [P]. 2014.3.
- [7] **Jiang, Y.**, Indoor Environmental Monitor Station Upgraded, Chinese Appearance Patent, ZL201430464368.4 [P]. 2014.11.
- [8] Zhang Y., Qiao L., Zhou X., Chai D., Li Y., and **Jiang, Y.**, Split Conductive Connection Device, Chinese Utility Model Patent, ZL201520130634.9 [P]. 2015.3.
- [9] Zhou X., Chai D., Zhang Y., Qiao L., Li Y., and **Jiang, Y.**, Portable Digital Noise Meter, Chinese Utility Model Patent, ZL201520351903.4 [P]. 2015.5.
- [10] Indoor Environmental Monitor Station Management System, Chinese Computer Software Copyright, ZL2014SR087412 [P]. 2014.3.
- [11] Indoor Environmental Monitor Station Application System, Chinese Computer Software Copyright, ZL2014SR088204 [P]. 2014.3.