# Fan Feng

The University of Alabama, USA

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**PROFESSIONAL SUMMARY**

- Strong research experience in the area of building modeling and simulation, data-driven modeling, building controls
- Well trained in programming, and extensive experience in coding HVAC-related models
- Creativity, passionate commitment, and strong skills in engineering

**EDUCATION**

**Ph.D.**                                                     Aug, 2018 –
- **The University of Alabama(UA)**
- Major: Mechanical Engineering
- GPA: 4.0/4.0
- Advisor: Zheng O'Neill
- Project: (NSF 1760834)Collaborative Research: Adaptive, Multi-Layered Fenestration Elements for Optimum Building Energy Performance and Occupant Comfort

**Master of HVAC Engineering**                Sep, 2015 – Mar, 2018
- **Tongji University**
- Major: Building Science
- GPA:4.49/5.00
- Advisor: Peng Xu. I also worked with Zhengwei Li
- Projects: Chinese National Science Fund for Young Scholars (Project No. 51508394), Shanghai Pujiang Talent Program (Project No. 15PJ1408100)

**Bachelor of HVC Engineering**                Sep, 2011 – Jul, 2015
- **Tongji University**
- Major: Heating, Ventilation, and Air-Conditioning(HVAC)    GPA:4.47/5.00

**AWARDS**

- Graduate Council Fellowship in UA                2018
- China national scholarship                       2013
- First prize oustanding scholarship               2013

**SKILLS**

**Programming Languages**

Python(familiar), C/C++(familiar), Matlab(familiar),VBA, SQL, HTML/CSS/Javascript, Modelica

**Tools/Softwares**

EnergyPlus(familiar), Trnsys(familiar), Dymola

**PUBLICATION**

[1] Shunian Qiu, Fan Feng, et al. "Data Mining Based Framework to Identify Rule Based Operation Strategies for Buildings with Power Metering System." *Building Simulation*, 2018, doi:10.1007/s12273-018-0472-6.

[2] Fan Feng , Yangyang Fu , Jin Hou & Peng Xu (2017): Optimizing the topologies of HVAC water systems in supertall buildings: A pilot study, *Science and Technology for the Built Environment*, DOI:

10.1080/23744731.2017.1393255

[3]     Fan Feng, and Zhengwei Li. "A Methodology to Identify Multiple Equipment Coordinated Control with Power Metering System." *Energy Procedia*, vol. 105, Elsevier, 2017, pp. 2499–505.

[4]     Fan Feng, et al. "The Status Quo of Operation of HVAC Water-Side Systems in China: A Perspective from BAS Data." *Energy Procedia*, vol. 143, Elsevier B.V., 2017, pp. 67–72, doi:10.1016/j.egypro.2017.12.649.

[5]     Yingjun Ruan, et al. "The Role of Occupant Behavior in Low Carbon Oriented Residential Community Planning: A Case Study in Qingdao." *Energy and Buildings*, vol. 139, Elsevier, 2017, pp. 385–94.

[6]     Fan Feng, et al. "An Empirical Study of Influencing Factors on Residential Building Energy Consumption in Qingdao City, China." *Energy Procedia*, vol. 104, Elsevier, 2016, pp. 245–50.

[7]     Yangyang FU, et al. "Data-Quality Detection and Recovery for Building Energy Management and Control Systems: Case Study on Submetering." *Science and Technology for the Built Environment*, vol. 22, no. 6, 2016, pp. 798–809, doi:10.1080/23744731.2016.1195658.

[8]     Tianren Yang, et al. "Towards Low-Carbon Urban Forms: A Comparative Study on Energy Efficiencies of Residential Neighborhoods in Chongming Eco-Island." *Energy Procedia*, vol. 88, Elsevier B.V., 2016, pp. 321–24, doi:10.1016/j.egypro.2016.06.142.

[9]     Yuan Li, et al. "Analysis of Factors Influencing the Energy Consumption of Government Office Buildings in Qingdao." *Energy Procedia*, vol. 104, Elsevier, 2016, pp. 263–68.

**PROFESSIONAL ORGANIZATION: ASHRAE STUDENT MEMBER**