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YUPENG WANG
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1206 W. Green St., Urbana

Education Experience

01/2020 - Present **University of Illinois at Urbana-Champaign, US**
Ph.D. student in Mechanical Science and Engineering Advisors: Prof. Pega Hrnjak, Dr. Hui Zhao

08/2017 – 12/2019 **University of Illinois at Urbana-Champaign, US**
MS in Mechanical Science and Engineering Advisors: Prof. Pega Hrnjak, Dr. Hui Zhao

08/2012 – 07/2016 **Harbin Institute of Technology, China**
Bachelor of Engineering in Building Environment and Facilities Engineering
Area of study: Heat Transfer, Thermodynamics, Fluid Dynamics, HVAC Systems

Research and Internship Experience

01/2010 – Present **Research assistant of Air Conditioning and Refrigeration Center (ACRC)**
Project: *External Corrosion in Microchannel Heat Exchangers: Effects and Mitigation*

08/2017 – 12/2019 **Research assistant of Air Conditioning and Refrigeration Center (ACRC)**
Thesis: *The Effect of External Corrosion on the Performance of the Multichannel Multilouvered fin Aluminum Heat Exchangers*
Achievement: evaluate the effect of the deposit and corrosion caused by salt spray tests on heat exchanger performance; provide information in correlating the mitigation of heat exchanger performance caused by the salt spray test and the real-life corrosion.

02/2016 – 07/2016 **Bachelor Graduation Design Project**
Designing of the Air Conditioning System of a High-rise Hotel

02/2016 – 04/2016 **Bachelor Graduation Internship Project**
Duty: Thermal power plant inspection; Air conditioning system inspection

01/2016 – 02/2016 **Internship at Sichuan Guozhong Architecture Design Company, China**
Duty: Air conditioning system design

Honors

2015 Honorable Mention in the 2015 COMAP's Mathematical Contest in Modeling

2014;2015 Third-class People's Scholarship granted by the Harbin Institute of Technology

2013;2014 Outstanding Director Award granted by the Harbin Institute of Technology Traveler's Association

Technical Skills

Modeling: MATLAB, Python, EES, Ansys Fluent

Design: AutoCAD, SolidWorks, Tangent HVAC

Control: LabVIEW, DirectSOFT

Publication

Wang, Y., Zhao, & H., Hrnjak, P. (2020). The effect of external corrosion on the performance of multichannel multi-louvered fin aluminum heat exchangers. (ACRC Report CR81)

Wang, Y., Zhao, & H., Hrnjak, P. (2021). An Evaluation of the Effect of Corrosion Tests on Thermal Performance of Aluminum Heat Exchangers. *International Refrigeration and Air Conditioning Conference*. Paper 2196.