

# RUIJI SUN

Phone: (341) 333-8169  
ruijis@berkeley.edu

755 Ohlone Ave, Apt 766  
Albany, CA 94706

## CURRENT POSITION

---

PhD Student	University of California at Berkeley, USA
Assistant Researcher	Center for the Built Environment
President	IBPSA-USA/ASHRAE Berkeley Chapter
Student Member	IBPSA-USA
Student Member	ASHRAE

## EDUCATION

---

MSc Sustainable Design, Carnegie Mellon University, USA  
BEng Xi'an University of Architecture and Technology, China  
Major in Energy Engineering and Minor in Architecture

## HONORS AND AWARDS

---

ASHRAE 2021 ETAMSF Scholarship  
Solar Decathlon China 2017 Merit Award  
CRAC 2016 Technology Competition for College Students 1<sup>st</sup> Prize  
CAPOL 2016 Architecture Travel Grant  
CIOB 2015 Green Building Innovation 3<sup>rd</sup> Prize  
LianZhu Beijing 2015 News Stand Design Competition 1<sup>st</sup> Prize  
Xi'an University of Arch & Tech 2014, 2015, 2016, 2017 Innovation Scholarship

## RESEARCH EXPERIENCE

---

DOE  
Skewering the Silos: Advancing the open-source data model Brick into a demonstrated and tested tool

ASHRAE  
RP-1810: Development of Reference Building Information Model (BIM) Test Cases for Improving Usage of Software Interoperability Schemas

NEMA  
Ontology for Life-Cycle Modeling of Electrical Distribution Systems: Model View Definition

## SERVICE

---

President of IBPSA-USA/ASHRAE Berkeley Chapter  
Co-Web chair of ACM BuildSys 2021 Data Workshop

## PUBLICATIONS

---

Sun, R. J., Roa, C. D., Raftery, P., & Fierro, G. 2022, “Enabling Portable and Reproducible Long-term Thermal Comfort Evaluation with Brick Schema and Mortar Data,” *ASHRAE 2022 Annual Conference*. (Accepted)  
Sun, R. J., Hu, Z. Z., Xu, W. L., & Gowri, K. 2020, “Improving the interoperability of gbXML through redefining data mapping rules of HVAC systems,” *ASHRAE 2020 Annual Conference*.

## TEACHING EXPERIENCE

---

Performance of Advanced Building Systems, Carnegie Mellon University

## COURSES

---

### University of California at Berkeley

Data Engineering	Joe Hellerstein, Aditya Parameswaran
Reproducible and Collaborative Data Science	Fernando Perez, Phillip B. Stark
Causal Inference	Peng Ding
Experiential Advanced Control Design	Francesco Borrelli
Modeling Energy Transport and Conversion Processes	Van P. Carey
Building Energy Simulation	Stefano Schiavon

### Carnegie Mellon University

Productivity, Health and Quality of Buildings	Vivian Loftness
Performance of Advanced Building Systems	Volker Hartkopf
Building Performance Modeling	Ömer T. Karagüzel
Building Control and Diagnostics	Ömer T. Karagüzel
Practical Data Science	Zico Kolter
Energy Finance	Christopher I. Telmer