



Jingjing (Sabrina) Wang is a Mechanical Designer at Taylor Engineering with experience in HVAC design, control system design, energy modeling and commissioning. With expertise using IESVE, eQuest, EnergyPro and Trace, she helps with design approaches with energy modeling and analysis to minimize building energy and life-cycle costs. She has been working mostly with commercial buildings, including but not limited to, office buildings, educational facilities and municipal facilities. She aims to provide both cost-effective and energy efficient mechanical system designs and analysis with innovative and sustainable approaches.

Ms. Wang holds a M.S. in Mechanical Engineering from the Royal Institute of Technology (KTH), Stockholm, Sweden and a B.E. in Electrical Engineering from Shandong University, China. She is also a Ph.D. Candidate in Mechanical Engineering at Syracuse University, Syracuse, NY. She specializes in personalized ventilation systems, indoor environmental quality, and thermal comfort evaluation for her Ph.D. research.

Ms. Wang previously worked as a graduate research assistant in the Building Energy and Environmental Systems Laboratory at Syracuse University during her Ph.D. study, where she specialized in the evaluation of personalized ventilation systems, indoor environmental quality, building modeling and simulation. She also has knowledge and experience with refrigeration systems and CFD analysis. Ms. Wang presented her research findings in several national and international conferences and venues. She also participates in the HVAC society activities, including ASHRAE conferences and meetings, in both the local chapter and nationwide.

EDUCATION

B.E., Electrical Engineering,
Shandong University, China 2005

M.S., Mechanical Engineering,
Royal Institute of Technology/KTH,
Sweden 2009

Ph.D Candidate, Mechanical
Engineering, Syracuse University,
NY

AFFILIATIONS

American Society of Heating,
Refrigeration, and Air-Conditioning
Engineers

International Building Performance
Simulation Association

SELECTED PROJECT EXPERIENCE

UC Berkeley Moffitt Library Renovation, Berkeley – Engineer lead on this 36,000 sf library 4th and 5th floors renovation for UC Berkeley.

Oceanwide Center, San Francisco – Engineer on this high-rise mixed use, office, hotel, condominium project, totaling 2.1 million sf. Provided HVAC load calculations, energy analysis and HVAC design.

1100 Broadway UCOP Tenant Improvement, Oakland – Engineer on this high-rise office building project, totally 300,000 sf. Provided HVAC design for the UCOP office floors tenant improvement.

CSU High Performance Building Design Energy Analysis, Hayward – Engineer on this high performance building design analysis project. Evaluated several energy saving options with literature review and energy modeling.



HONORS AND AWARDS

ASHRAE College of Fellows Travel Award 2013 – 2014

Award of WiSE – Future Professionals Program (FPP), Syracuse University, 2011-2013

TEACHING EXPERIENCE

Mechanical Engineering Laboratory, teaching assistant, Department of Mechanical and Aerospace Engineering, Syracuse University, Syracuse, NY, 2011 – 2012

PROFESSIONAL ASSOCIATIONS

ASHRAE - Student Member: 2010-2016; Associate Member: 2019 - Present

Technical Committee 4.3 Ventilation Requirements & Infiltration: Corresponding Member

Technical Committee 7.6 Building Energy Performance: Corresponding Member

SELECTED PUBLICATIONS

Meng Kong, Jianshun Zhang, Jingjing Wang (2014). *Experimental and Simulation Study on Personalized Ventilation*. Proceedings of Indoor Air 2014, July 7-12, Hong Kong, China.

Jingjing Wang, Alan Hedge, Tiffany A. Koszalka, Atsuo Ishikawa, Shinsuke Kato, Jianshun Zhang (2013). *Effects of Ventilation on Perceived Indoor Environmental Quality and Performance on Creativity and Productivity Tasks*. CLIMA 2013 – 11th REHVA World Congress and 8th International Conference on IAQVEC, June 16-19, 2013, Prague, Czech Republic.

Jingjing Wang, Monica Burris, Alan Hedge, Tiffany A. Koszalka, and Jianshun Zhang (2011). *A Pilot Study on the Effects of Ventilation Rate on Creativity Performance*. Proceedings of Indoor Air 2011, June 5-10, Austin, Texas, USA.

ADDITIONAL REPRESENTATIVE PROJECTS

388 Cambridge Ave	Palo Alto, CA, 15,540 ft ² , Mechanical design
50 Fremont St.	San Francisco, CA, 210,000 ft ² , HVAC Commissioning
Caltech Beckman Institute	Pasadena, CA, 160,000 ft ² , HVAC Retrofit
Caltech Downs Lauritsen Lab Building	Pasadena, CA, 80,000 ft ² , HVAC Remodel
CSU San Marcos	San Marcos, CA, Campus chilled water capacity study
Harker School Gym and Theater	San Jose, CA, 80,000 ft ² , Design/Build HVAC Design
Hewlett Foundation	Menlo Park, CA, HVAC control upgrade of ice storage plant
Infosys TI	Palo Alto, CA, 11,800 ft ² , Mechanical design
Kaiser Berkeley MOB TI	Berkeley, CA, 68,220 ft ² , MEP Commissioning
Laguna Honda Hospital Expansion	San Francisco, CA, 420,000 ft ² , HVAC Commissioning
Maguire Jail	Redwood City, CA, 217,000 ft ² , HVAC control retrofit and Cx
San Mateo County Hall of Justice	Redwood City, CA, 320,000 ft ² , HVAC and control retrofit
UC Berkeley Minor Hall Addition Retrofit	Berkeley, CA, 55,000 ft ² , Mechanical design
UCSC Coastal Biology Building	Santa Cruz, CA, 40,000 ft ² , Energy Analysis
Workday Headquarters	Pleasanton, CA, 575,000 ft ² , Load Calculation and Analysis