

EDUCATION

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- **University of Wollongong - Faculty of Engineering** Wollongong, AU  
*PhD in Engineering and Information Sciences* 03/2014 - 12/2017
- **University of Bologna - Faculty of Engineering** Bologna, IT  
*Master of Science Degree in Energy Engineering; Final grade 110/110 with honours* 09/2010 - 03/2013
- **University of Wollongong - Faculty of Engineering** Wollongong, AU  
*Exchange program* 09/2012 - 02/2013
- **Technical University of Copenhagen, Denmark - Faculty of Engineering** Copenhagen, DK  
*Exchange program* 01/2011 - 06/2011
- **University of Bologna, Italy - Faculty of Engineering** Bologna, IT  
*Bachelor in Energy Engineering; Final grade 108/110* 09/2007 - 07/2010

WORK AND RESEARCH EXPERIENCE

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- **Berkeley Education Alliance for Research in Singapore (BEARS)** Singapore, SG  
*Postdoctoral Scholar - SinBerBEST 2* 06/2019 - present
  - **CBE Thermal Comfort Tool:** Main developer of version v2.0.
  - **pythermalcomfort:** Developed a Python package for thermal comfort research.
  - **Cozie:** Lead developer of the iOS and Fitbit application for IEQ and physiological data collection.
  - **Research:** Conducted a longitudinal thermal comfort study that aimed to develop personalized thermal comfort models using wearable and IoT devices. Performed data analysis, and carried out test experiments involving human subjects, as well as worked with researchers across SinBerBEST themes to achieve the program's aim to improve energy efficiency, sustainability, and indoor environmental quality in buildings in tropical climates
  - **Industrial research projects:** Collaborated in the construction and commissioning of the "Greenest building" in Singapore. A net-zero energy building for the Singaporean Building and Construction Authority (BCA). Helped with the development of the BCA Green Mark compliance path.
- **ASHRAE 55 committee member** Atlanta, US  
*SSPC 55 "Thermal Environmental Conditions for Human Occupancy" committee* 11/2020 - present
- **University of Wollongong - Sustainable Buildings Research Centre (SBRC)** Wollongong, AU  
*Honorary Fellow - Faculty of Engineering* 06/2019 - present
- **University of Wollongong - Sustainable Buildings Research Centre (SBRC)** Wollongong, AU  
*Associate Research Fellow - Faculty of Engineering* 06/2017 - 06/2019
  - **Industrial research projects:** Company: Daikin Australia. Developed smart controllers and IoT sensors for Daikin.
  - **Advantages SME grant:** Company: Enviro Buildings Services. Developed learning algorithms using Python and Matlab for self-commissioning of HVAC components and models for performance prediction.
  - **International Energy Agency Energy in Buildings and Communities (IEA EBC) Annex 69:** Represented the SBRC in the IEA EBC Annex 69 "Strategy and practice of adaptive thermal comfort in low energy buildings".
  - **Data Scientist:** Helping colleagues analyzing data in several research projects and assisted the SBRC in the development of research facilities in relation to data acquisition, storage, and analysis.
  - **Application developer:** Developed two Android applications, one written in Java and one using Xamarin Forms.
  - **Teaching Assistant - HVAC systems:** Delivered a number of tutorials and developed course material for the UOW Engineering subject ENG 442/918 "Sustainable Energy in Buildings".
  - **Guest Lecturer - University of Sydney:** Delivered a guest lecture on the Solar Decathlon Competition.
- **Nier Ing** Bologna, IT  
*Consultant for an Italian engineering consulting firm* 03/2013 - 02/2014
  - **Activities:** Conducted feasibility studies for private and public clients. Modeled building energy consumption using EnergyPlus.

## TEACHING EXPERIENCE

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- **National University of Singapore (NUS)** Singapore, SG  
*Teaching assistant* Aug/2020 – Dec/2020
  - **Course BPS5223 - Data Science for the Built Environment:** Prepared and delivered a guest lecture on thermal comfort and reviewed students mid-term and final presentations.
  - **Course BPS5229 - Building Energy Performance - Passive Systems:** Reviewed students mid-term and final presentations.
- **University of Sydney** Sydney, AU  
*Guest lecture* Oct/2018
  - **BAEN2002 - Design Integration Lab: Energy:** Prepared and delivered a guest lecture on the Solar Decathlon Competition.
- **University of Wollongong** Wollongong, AU  
*Teaching assistant* Jul/2016 - Nov/2017
  - **ENG 442/918 - Sustainable Energy in Buildings:** Co-taught the subject, prepared the course material and the exam.

## MAIN PEER-REVIEWED PUBLICATIONS

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- Schweiker, M., et al., 2020. Evaluating assumptions of scales for subjective assessment of thermal environments – Do laypersons perceive them the way, we researchers believe? *Energy Build.* 211, 109761. <https://doi.org/10.1016/j.enbuild.2020.109761>
- Kim, J., Tartarini, F., Parkinson, T., Cooper, P., de Dear, R., 2019. Thermal comfort in a mixed-mode building: Are occupants more adaptive? *Energy Build.* 203, 109436. <https://doi.org/10.1016/j.enbuild.2019.109436>
- Földváy Ličina, et al., 2018. Development of the ASHRAE Global Thermal Comfort Database II. *Build. Environ.* 142, 502–512. <https://doi.org/10.1016/j.buildenv.2018.06.022>
- Tartarini, F., Cooper, P., Fleming, R., 2018. Thermal perceptions, preferences and adaptive behaviours of occupants of nursing homes. *Build. Environ.* 132. <https://doi.org/10.1016/j.buildenv.2018.01.018>
- Tartarini, F., Cooper, P., Fleming, R., Batterham, M., 2017. Indoor Air Temperature and Agitation of Nursing Home Residents with Dementia. *Am. J. Alzheimers. Dis. Other Dement.* 32. <https://doi.org/10.1177/1533317517704898>
- Tartarini, F., Cooper, P., Fleming, R., 2017. Thermal Environment and Thermal Sensations of Occupants of Nursing Homes: A Field Study, in: *Procedia Engineering*. <https://doi.org/10.1016/j.proeng.2017.04.196>
- Please visit my Google Scholar or Scopus profile for the complete list of publications

## PROFESSIONAL AFFILIATIONS AND REVIEW ACTIVITIES

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- **Professional Affiliations**
  - Australian Institute of Refrigeration, Air conditioning and Heating (AIRAH)
- **Review Activities**
  - Energy and Buildings

## CONFERENCES ATTENDED

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- **Oral presentations**
  - Indoor Air 2020: 16th Conference of the International Society of Indoor Air Quality and Climate, Seoul, Korea.
  - IAQVEC: 10th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings (2019), Bari, IT.
  - SBE16 Sydney: International High-Performance Built Environments Conference (2016), Sydney, AU.
  - AAG National Conference (2016), Canberra, AU.
  - Oral presentation at the 15th National Conference of Emerging Researchers in Aging (2016), Canberra, AU.
  - IPA-International Congress (2016), San Francisco, CA, USA.
  - 13th National Conference of Emerging Researchers in Aging (2014), Adelaide, AU.

## AWARDS

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- **Experienced Researcher**  
*for the IAQVEC conference (I co-authored the paper)* 2019
- **Best Paper Award**  
*from the journal Building and Environment* 2018
- **Student of the year**  
*from AIRAH (Australian Institute of Refrigeration, Air Conditioning and Heating)* 2017
- **Best presentation**  
*from the 15th National Conference of Emerging Researchers in Ageing* 2016
- **Innovation in ageing research**  
*from the 13th National Conference of Emerging Researchers in Ageing* 2014

## SKILLS

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- **Languages:** Italian, English
- **Programming languages:** Python, L<sup>A</sup>T<sub>E</sub>X, Javascript, SQL, Matlab
- **Softwares:** JetBrains IDEs, Matlab, Office

## REFERENCES

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- **References will be made available on request**