

## EDUCATION

- **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 - 07/2013
- **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

## EXPERIENCE

- **Berkeley Education Alliance for Research in Singapore (BEARS)** Singapore, SG  
*Postdoctoral Scholar* 06/2019 – present
  - Conducted research relating to SinBerBEST Theme A: Human-Building Nexus - Enhancing Health and Productivity in the Built Environment. Worked on issues related to thermal comfort, indoor air quality, human performance, and HVAC systems.
  - 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.
- **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 analysing data in several research project 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. Modelled building energy consumption using EnergyPlus.

## PUBLICATIONS (SCOPUS, GOOGLE SCHOLAR)

- **Journal**
  - V. Földváry *et al.*. Development of the ASHRAE Global Thermal Comfort Database II, Build. Environ. (2018).
  - F. Tartarini, P. Cooper, R. Fleming. Thermal perceptions, preferences and adaptive behaviours of occupants of nursing homes, Build. Environ. (2018)

- F. Tartarini, P. Cooper, R. Fleming and M. Batterham. Indoor Air Temperature and Agitation of Nursing Home Residents With Dementia. American Journal of Alzheimer's Disease and Other Dementias, 2017, Vol. 32(5) 272-281.
- F. Tartarini, P. Cooper, R. Fleming. Thermal Environment and Thermal Sensations of Occupants of Nursing Homes: A Field Study. Procedia Engineering 2017, 180, 373-382.

## • Conference

- F. Tartarini, P. Cooper, R. Fleming. Thermal Comfort for Occupants of Nursing Homes: A Field Study, in: Windsor Thermal Comfort Conference: Rethinking Comfort, (2018), Windsor, UK.

## CONFERENCES ATTENDED

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### • Oral presentations

- IAQVEC: 10th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Bari (2019), 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.
- Hammond Care – International Dementia Conference (2016), Sydney, AU.
- AAG and ACS Regional Conference – Embracing the Future (2015), Batemans Bay, AU.
- 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:** Python, SQL, Matlab, C#, Java, Javascript
- **Softwares:** Matlab, Office, JetBrains IDEs