

# CURRICULUM VITAE

**Ongun Berk Kazanci, PhD**

**Assistant Professor**

**International Centre for Indoor Environment and Energy & Section for Indoor Environment**

**Department of Civil Engineering  
Technical University of Denmark**

## Contact Information and Personal Data

**Address:** Nils Koppels Allé, Building 402, Room 232, 2800 Kgs. Lyngby, Denmark

**E-mail:** [onka@byg.dtu.dk](mailto:onka@byg.dtu.dk)

**Phone:** +4550281327

**Date of birth:** August 2, 1988

**Place of birth:** Ankara, Turkey

## Education and Work Experience

10/2018-present Technical University of Denmark, Kgs. Lyngby, Denmark  
International Centre for Indoor Environment and Energy, Department of Civil Engineering  
Assistant Professor of Indoor Environment and Room Conditioning Systems

09/2016-10/2018 Technical University of Denmark, Kgs. Lyngby, Denmark  
International Centre for Indoor Environment and Energy, Department of Civil Engineering  
Postdoctoral Researcher

03/2018 Tokyo City University, Yokohama, Japan  
Visiting Researcher at Graduate School of Environmental and Information Studies  
Invited by Prof. Masanori Shukuya

04/2016-09/2016 Technical University of Denmark, Kgs. Lyngby, Denmark  
International Centre for Indoor Environment and Energy, Department of Civil Engineering  
Research Assistant

01/2013-04/2016 Technical University of Denmark, Kgs. Lyngby, Denmark  
PhD in Civil Engineering  
*Low temperature heating and high temperature cooling in buildings*

03/2015-06/2015 Tokyo City University, Yokohama, Japan  
External research stay at Graduate School of Environmental and Information Studies

02/2014-04/2014 Tsinghua University, Beijing, China  
External research stay at the Building Energy Research Center

08/2010-10/2012 Technical University of Denmark, Kgs. Lyngby, Denmark  
MSc in Sustainable Energy  
*Solar sustainable heating, cooling and ventilation of a net zero energy house*

09/2006-06/2010

Baskent University, Ankara, Turkey  
BSc in Mechanical Engineering  
*Mathematical modeling and prototype manufacturing of a 50 W, hybrid (solar and wind powered) trigeneration module*

07/2009-09/2009

von Karman Institute for Fluid Dynamics, Rhode-Saint-Genese, Belgium  
Short Training Program at Environmental and Applied Fluid Dynamics Department  
*Numerical modeling of gas dispersion in an offshore oil extraction platform*

## **Research Interests**

Indoor Environmental Quality (IEQ), human thermal comfort, low temperature heating and high temperature cooling systems (particularly water-based radiant heating and cooling systems), their integration with renewable energy resources, thermodynamic analyses of HVAC systems and building components, building energy performance simulation, applied Computational Fluid Dynamics (CFD).

## **Teaching and Supervision Experience**

02/2016-present

Technical University of Denmark, Kgs. Lyngby, Denmark  
Lecturer in the course and responsible for the simulation assignment  
*11127 Sustainable Heating and Cooling of Buildings*

04/2014

Technical University of Denmark, Kgs. Lyngby, Denmark  
Supervision of students during the simulation assignment  
*11127 Sustainable Heating and Cooling of Buildings*

2013-2014

Technical University of Denmark, Kgs. Lyngby, Denmark  
Supervision of the *Comfort Conditions* group  
of Team DTU, Solar Decathlon Europe 2014

2013-present

Technical University of Denmark, Kgs. Lyngby, Denmark  
Supervision of students during the experiments  
*11221 Ventilation and Climatic Systems*

01/2012-05/2012

Technical University of Denmark, Kgs. Lyngby, Denmark  
Teaching Assistant  
*11117 Solar Heating Systems*  
*11127 Sustainable Heating and Cooling of Buildings*

08/2011-12/2011

Technical University of Denmark, Kgs. Lyngby, Denmark  
Teaching Assistant  
*45003 Energy Economics, Markets and Policies*

As of December 2018, I have co-supervised 15 special course projects, 3 BSc and BEng projects, 19 MSc projects, and currently co-supervising a visiting PhD student from Waseda University (Japan).

The full list of supervised student projects is available upon request.

## **Journal and Conference Reviewer Appointments**

Energy and Buildings (since 2014), Building Simulation (since 2017), Building and Environment (since 2017), Sustainable Cities and Society (since 2018), Applied Thermal Engineering (since 2018), Science and Technology for the Built Environment (since 2018)

ECOS 2015, SSB 2018, ASHRAE Winter Conference 2019, CLIMA 2019

Guest Editor (together with Prof. Bjarne W. Olesen) on New Heating and Cooling Concepts Special Issue of Applied Sciences

([http://www.mdpi.com/journal/applsci/special\\_issues/new\\_heating](http://www.mdpi.com/journal/applsci/special_issues/new_heating))

## **Projects (only Co-PI projects)**

2017, Mitsubishi Electric R&D Centre Europe B.V. (UK), Performance evaluation of radiant and convective cooling/heating systems & Survey on HVAC related potential research themes for office buildings, ca. 1.1 mio. DKK (142.000 €), Co-PI.

2018, Mitsubishi Electric R&D Centre Europe B.V. (UK), Intelligent comfort control development, ca. 626.000 DKK (84.000 €), Co-PI.

2018, Mitsubishi Electric Information Technology R&D Center (Japan), Proof of concept study of Personal Environment Control (PEC) Systems, ca. 664.000 DKK (89.000 €), Co-PI.

Participation in and Subtask co-lead in international collaboration projects such as International Energy Agency (IEA), Energy in Buildings and Communities Programme (EBC) Annex 59 – High Temperature Cooling and Low Temperature Heating in Buildings (completed), Annex 69 – Strategy and Practice of Adaptive Thermal Comfort in Low Energy Buildings (ongoing) and Annex 80 – Resilient Cooling (ongoing).

## **International collaboration with universities**

In addition to the collaboration with other universities in different international projects, I have collaboration with the following universities.

Tokyo City University, Japan (Prof. Masanori Shukuya)

Waseda University, Japan (Prof. Shin-ichi Tanabe)

University of Tokyo, Japan (Prof. Ryoza Ooka and Dr. Wonjun Choi)

Tsinghua University, China (Prof. Xiaohua Liu and Dr. Tao Zhang)

## **National and international contact and collaboration with industry**

Development of new products with industry partners in common projects and development of research projects together with industry partners, such as

Mitsubishi Electric R&D Centre Europe B.V. (UK), Mitsubishi Electric Information Technology R&D Center (Japan), COWI, RaCell, Uponor and Grundfos.

## **Distinctions, Awards and Grants**

### **2017**

REHVA Young Scientist Award

Co-author of the top conference paper written and presented by a doctoral student at the 2017 ASHRAE Winter Conference for the paper "Dominguez, L. M., Rage, N., Kazanci, O. B., & Olesen, B. W. (2017). Effects of acoustic ceiling units on the cooling performance of thermally activated building systems (TABS). In Proceedings of the 2017 ASHRAE Winter Conference. Las Vegas, NV: American Society of Heating, Refrigerating and Air-Conditioning Engineers."

Best Paper Award at ICPEBE 2017: 19th International Conference on People, Ecosystems and Built Environment for the paper "Dominguez, L. M., Rage, N., Kazanci, O. B., & Olesen, B. W. (2017). Effects of free-hanging horizontal sound absorbers on the cooling performance of thermally activated building systems. In Proceedings of ICPEBE 2017: 19th International Conference on People, Ecosystems and Built Environment, Barcelona."

### **2016**

DTU's Young Researcher Award

Grant from Otto Mønsted's Fond for participation in an international conference

### **2015**

Grant from Otto Mønsted's Fond for participation in an international conference

Grant from Otto Mønsted's Fond for a research stay at Tokyo City University, Yokohama, Japan

Grant from Augustinus Fonden for a research stay at Tokyo City University, Yokohama, Japan

### **2014**

Professor P.O. Fanger's award (Forskningslegat) from DANVAK (Danish HVAC Society)

Grant from Otto Mønsted's Fond for participation in an international conference

### **2013**

Grant from Idella Foundation for a research stay at Tsinghua University, Beijing, China

DTU Blue Dot Award

### **2012**

Highest grade for the MSc thesis (12/12)

## 2010

Tuition Fee Waiver from Technical University of Denmark (DTU) for the MSc degree  
BSc degree in Mechanical Engineering with High Honors (3.61/4.00)

## 2009

von Karman Institute for Fluid Dynamics Fellowship for the “Short Training Program”

## Memberships in Societies & Other Activities

### Present

DANVAK (Danish HVAC Society) member

ASHRAE Associate Member

Vice Chair and Voting Member of Technical Committee 6.5 - Radiant Heating and Cooling

Programs Subcommittee Chair and Voting Member of Technical Committee 7.4 - Exergy Analysis for Sustainable Buildings (EXER)

Corresponding Member of Technical Committee 6.7 - Solar and Other Renewable Energies

Provisional Corresponding Member of Technical Committee 2.1 - Physiology and Human Environment

IBPSA (International Building Performance Simulation Association)-Nordic member

### Past

Founder and Past President of the Nordic Student Branch of ASHRAE (established in 2015)

ISIAQ (International Society of Indoor Air Quality and Climate) student member

Solar Decathlon Europe 2012, Team DTU, HVAC team member

Member of “DTU Ambassador Scheme”

AFS (American Field Service) exchange student (Upper Dublin High School, Fort Washington, Pennsylvania, USA, 2005/06)

AFS volunteer

## Software Skills

**Building and system performance simulation:** TRNSYS, IDA ICE, HEAT2, POLYSUN, MATLAB/Simulink, EES

**CFD software:** ANSYS Fluent (Gambit, FLUENT), STAR-CCM+

**Programming languages:** C, C++, Microsoft Visual C#

**Others:** AutoCAD & Mechanical, MS Office & applications

## **Languages**

Danish  
English  
Turkish

## **Publications**

Available at

[DTU's webpage](#)

[Google Scholar](#)

ORCID: [0000-0002-4309-0320](#)