Mehmet Furkan ÖZBEY

Research Assistant

Atılım University

Mechanical Engineering Department
06830 İncek, Gölbaşı, Ankara/TURKEY
furkan.ozbey@atilim.edu.tr
Tel: +90 312 586 8951

PERSONAL

Year of Birth	1994
Place of Birth	Türkiye

EDUCATION

2021 – Present	Atılım University, Mechanical Engineering (English), PhD.
2019 – 2021	Atılım University, Mechanical Engineering (English), MSc.
2012 – 2018	Çukurova University, Mechanical Engineering (English) BSc.

ACADEMIC POSITIONS

2022 – Present	**Research Assistant**, Mechanical Engineering Department, *Atılım University*, Ankara, Türkiye.
2021 – 2022	**Research Assistant**, Manufacturing Engineering Department, *Atılım University*, Ankara, Türkiye.
2021 – 2021	**Lecturer**, Machinery and Metal Technologies Department, *Istanbul Aydın University*, Istanbul, Türkiye.
2018 – 2019	**Visiting Researcher**, Department of Fluid Mechanics, *Universitat Politècnica de Catalunya*, Barcelona, Spain.

LECTURES ASSISTED/ASSITING

1	ME101 Introduction to Mechanical Engineering 2022-2023 Fall | 2022-2023 Spring
2	ME390 Mechanical Engineering Systems Laboratory 2022-2023 Fall | 2022-2023 Spring
3	ME451 Quality Management and Quality Engineering 2022-2023 Fall | 2022-2023 Spring
4	ME205 Introduction to Manufacturing Processes (Laboratory Applications) 2021-2022 Spring
5	ME316 Machine Elements 2021-2022 Spring

AWARDS

1	**3rd Best Project Award** in Shape the Change Digital Manufacturing & Industry 4.0 Program, *BOSCH Turkey & Boğaziçi University*, 2017.
2	**Jury Design Award** in Efficiency Challenge (Category: Electric Car), *The Scientific and Technological Research Council of Turkey (TUBITAK),* 2016.

SCHOLARSHIPS AND FUNDINGS

1	**Scholar**, TUBITAK 2250 – Scholarship for Academic Performance, *TUBITAK Directorate of Science Fellowships and Grant Programs (BIDEB)*, 2023-1.
2	**Supported Scientist**, TUBITAK 2224-A, Supporting Program for Participating in Scientific Events Abroad, *TUBİTAK Directorate of Science Fellowships and Grant Programs (BIDEB),* 2022. Supporting for the Oral Presentation in the 11th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings (IAQVEC 23), Tokyo, Japan.
3	**Scholar**, TUBITAK 2250 – Scholarship for Academic Performance, *TUBITAK Directorate of Science Fellowships and Grant Programs (BIDEB)*, 2022.
4	**Scholar (PhD Student)**, TUBITAK 3501 – Project Number: 120M890, *Scientific and Technological Research Council of Turkey (TUBITAK)*, 2022 – 2023.
5	**Visiting Researcher Scholar**, *European Commission*, 2018 – 2019.

RESEARCH INTERESTS

1	Thermal Comfort in Indoor Environment
2	Energy Efficiency in Buildings
3	Heating Ventilating and Air Conditioning (HVAC&R)

SCI & SCI-E PUBLICATIONS

1	**ÖZBEY, M. F.** & TURHAN, C. (**2023**), A Novel Comfort Temperature Determination Model Based on Psychology of The Participants for Educational Buildings in A Temperate Climate Zone. *Journal of Building Engineering,* 107415. https://doi.org/10.1016/j.jobe.2023.107415
2	TURHAN, C., **ÖZBEY, M. F**., LOTFİ, B., & AKKURT, G. G. (**2023**), Integration of psychological parameters into a thermal sensation prediction model for intelligent control of the HVAC systems. *Energy and Buildings*, 113404. https://doi.org/10.1016/j.enbuild.2023.113404
3	TURHAN, C., **ÖZBEY, M. F**., ÇETER, A. E., & AKKURT, G. G. (**2023**), A Novel Data-Driven Model for the Effect of Mood State on Thermal Sensation. *Buildings,* 13(7), 1662. https://doi.org/10.3390/buildings13071662
4	ÇETER, A. E., **ÖZBEY, M. F.**, TURHAN, C. (**2023**), Gender inequity in thermal sensation based on emotional intensity for participants in a warm Mediterranean climate zone. *International Journal of Thermal Sciences,* 185, 108089. https://doi.org/10.1016/j.ijthermalsci.2022.108089
5	**ÖZBEY, M. F.**, ÇETER, A. E., ÖRFİOĞLU, Ş., ALKAN, N., TURHAN, C. (**2022**), Sensitivity Analysis of The Effect of Current Mood States on The Thermal Sensation in Educational Buildings. *Indoor Air,* 32(8), e13073. https://doi.org/10.1111/ina.13073
6	**ÖZBEY, M. F.** & TURHAN, C. (**2022**), A Comprehensive Comparison and Accuracy of Different Methods to Obtain Mean Radiant Temperature in Indoor Environment. *Thermal Science and Engineering Progress,* 31, 101295. https://doi.org/10.1016/j.tsep.2022.101295

SCI & SCI-E PUBLICATIONS (Cont.)

7	**ÖZBEY, M. F.** & TURHAN, C. (**2022**), The Importance of The Calculation of Angle Factors to Determine the Mean Radiant Temperature in Temperate Climate Zone: A University Office Building Case, *Indoor and Built Environment*, 31(4), 1004-1017. https://doi.org/10.1177/1420326X211046371
8	TURHAN, C., & **ÖZBEY, M. F.** (**2021**), Effect of pre-and post-exam stress levels on thermal sensation of students. *Energy and Buildings*, 231, 110595. https://doi.org/10.1016/j.enbuild.2020.110595

INTERNATIONAL CONFERENCES & BOOK CHAPTERS

1	**ÖZBEY, M. F.**, ALKAN, N., TURHAN C. (**2023**), Investigation of the Relationship between Tension Level and Thermal Sensation. A Case Study of University Study Hall. *The 11th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings (IAQVEC2023)*, Tokyo, Japan, 20-23 May 2023. https://doi.org/10.1051/e3sconf/202339601010
2	**ÖZBEY, M. F.** & TURHAN C. (**2023**), Is Determining Mean Radiant Temperature via Angle Factors Correct? A Case study University Office Building. *2nd International Meet on Renewable and Sustainable Energy*, Rome, Italy, 13-15 March 2023.
3	TURHAN, C., ALKAN, N., ÇETER, A. E., & **ÖZBEY, M. F**. (**2022**), The relation between occupant's mood state and thermal sensation. *REHVA 14th HVAC World Congress: CLIMA 2022*, Rotterdam, Netherlands, 22-25 May 2022. https://doi.org/10.34641/clima.2022.261
4	ÇETER, A. E., **ÖZBEY, M. F**., ÖRFİOĞLU, Ş., & TURHAN, C. (**2022**), Investigation of The Relationship Between the Body Mass Index (BMI) Of the Human Body and the Thermal Sensation Vote (TSV): A Case Study. *International Symposium on Energy Management and Sustainability*, Geel, Belgium & Istanbul, Türkiye, 05-09 April 2022. E-ISBN: 978-605-7483-75-1. Book Chapter (**2023**): https://doi.org/10.1007/978-3-031-30171-1_89
5	ÖRFİOĞLU, Ş., ÇETER, A. E., **ÖZBEY, M. F**., & TURHAN, C. (**2022**), Investigation of the Gap Between the Predicted Mean Vote (PMV) And the Actual Vote (AMV) of The Students in Csb Climate Zone. *International Symposium on Energy Management and Sustainability*, Geel, Belgium & Istanbul, Türkiye, 05-09 April 2022. E-ISBN: 978-605-7483-75-1. Book Chapter (**2023**): https://doi.org/10.1007/978-3-031-30171-1_5
6	**ÖZBEY, M. F.** & TURHAN, C. (**2021**), Calibration of a Low-Cost Globe Thermometer with Linear Comparative Calibration Method. *5th International Anatolian Energy Symposium*, Trabzon, Türkiye, 24-26 March 2021. ISBN: 978-605-2271-33-9.

TR-INDEX PUBLICATIONS

1	**ÖZBEY, M. F.**, ÇETER, A. E., & TURHAN, C. (**2022**), Determination of Metabolic Rate from Physical Measurements of Heart Rate, Mean Skin Temperature and Carbon Dioxide Variation. *Sakarya University Journal of Science*, 26(1), 73-89. https://doi.org/10.16984/saufenbilder.981511
2	**ÖZBEY, M. F**. & TURHAN, C. (**2021**), A Case Study on the Assumption of Mean Radiant Temperature Equals to Indoor Air Temperature in a Free- Running Building, *Kocaeli Journal of Science and Engineering*, 4(1), 79-85. https://doi.org/10.34088/kojose.833707

PROJECTS

1	**Graduate Researcher**, Determination of the relationship between user's thermal comfort and mood states and experimental data-driven modeling, TUBITAK – 3501 – 120M890, 02/2021 – 02/2023.
2	**Visiting Researcher,** CFD Applied to the Study of Thermal Efficiency in Large Buildings, *Centre for Industrial Diagnostics and Fluid Dynamics (CDIF) and JG Ingenieros Chair – Universitat Politècnica de Catalunya*, Barcelona, Spain, 09/2018 – 04/2019.
3	**Undergraduate Researcher,** Traceability of Gas Pipes with RFID, *BOSCH Turkey & Boğaziçi University*, Istanbul, Türkiye, 05/2017 – 10/2017.

PROJECTS (Cont.)

4	**Undergraduate Researcher,** Design Parameters of Tires, *Bridgestone & Lassa (BRISA)*, Kocaeli, Türkiye, 02/2017 – 06/2017.
5	**Undergraduate Researcher,** Mechanics of Biomaterials for 3D printed custom-fit medical devices, *Fited Co.*, New York, USA, 10/2016 – 02/2017.