

Fazel Khayatian

Courses Taught:

- Spring 2024: ARC 5773 – Environmental Life Cycle Assessment of Buildings
- Fall 2023: ARC 5743 – Building Performance Modeling and Simulation

Educational Credentials:

- PhD in Architecture & Built Environment (Politecnico di Milano, 2018)
- M.Sc. in Architectural Engineering (University of Guilan, 2013)
- B.A. in Architecture (Azad University, 2009)

Teaching Experience:

- School of Architecture and Planning (UTSA, 2023 – present)
- Institute of Technology in Architecture (ETH Zurich, 2020 – 2023)
- Department of Architecture and Built Environment (University of Nottingham, 2018 – 2019)
- Department of Architecture and Built Environment (Politecnico di Milano, 2015 – 2018)

Professional Experience:

- Cremonesi Workshop (Building Performance Consultancy, 2016 – 2017)
- R2M Solutions (Building Performance Consultancy, 2015 – 2016)

Licenses/Registration: N/A

Selected Publications and Recent Research:

- Khayatian, F., 2023. Data Anonymization and Open Sharing Are Key to a Sustainable Built Environment. In Smart Buildings and Technologies for Sustainable Cities in China (pp. 33-45). Singapore: Springer Nature Singapore
- Yin, M., Cai, H., Gattiglio, A., Khayatian, F., Smith, R.S. and Heer, P., 2024. Data-driven predictive control for demand side management: Theoretical and experimental results. *Applied Energy*, 353, p.122101.
- Zhan, H., Mahyuddin, N., Sulaiman, R. and Khayatian, F., 2023. Phase change material (PCM) integrations into buildings in hot climates with simulation access for energy performance and thermal comfort: A review. *Construction and Building Materials*, 397, p.132312.
- Hassoun, L., Khayatian, F., Ganobjak, M., Wernery, J. and Vivian, J., 2023, November. Integrated assessment of buildings visual and thermal performance with translucent bricks. In *Journal of Physics: Conference Series* (Vol. 2600, No. 11, p. 112008). IOP Publishing.
- Perera, A.T.D*, Khayatian, F., Eggimann, S., Orehounig, K., Halgamuge, S., 2022. Quantifying the climate and human-system-driven uncertainties in energy planning by using GANs. *Applied Energy* 328 (2022): 120169.
- Fochesato, M., Khayatian, F., Lima, D.F. and Nagy, Z., 2022, November. On the use of conditional TimeGAN to enhance the robustness of a reinforcement learning agent in the building domain. In *Proceedings of the 9th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation*.
- Khayatian, F.*, Nagy, Z. and Bollinger, A., 2021. Using generative adversarial networks to evaluate robustness of reinforcement learning agents against uncertainties. *Energy and Buildings*, 251, p.111334.