Curriculum vitae with track record

Personal information

First name, Surname:	Amin, Moazami		
Date of birth:	15.02.1987	Sex:	Male
Status	Married		
Nationality:	Norwegian – Iranian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	https://orcid.org/0000-0003-1622-2444		
URL for personal website:	Amin Moazami - LinkedIn Amin Moazami – SINTEF Amin Moazami - NTNU		

Education

Year	Faculty/department - University/institution - Country
2019	Ph.D. in Building Engineering - Department of Civil and Environmental Engineering - Norwegian University of Science and Technology NTNU – Norway.
2011-2014	Master of Science in Architectural Engineering - Architecture Urban Planning Construction Engineering School- Politecnico di Milano – Italy.

Positions - current and previous

(*Academic sector/research institutes/industrial sector/public sector/other)*

Year	Job title – Employer - Country
Oct 2023	Research Manager – SINTEF community - Norway
Nov 2022	Project leader – SINTEF community - Norway
Oct 2019 - Present	Associate Professor - Norwegian University of Science and Technology NTNU – Norway.
Apr 2019- Oct 2019	Lecturer - Norwegian University of Science and Technology NTNU – Norway.
Sep 2018 – Jan 2019	Intern – Spacemaker AI - Norway
Sep 2014-Jul 2015	Research and Lecturer Assistant - Politecnico di Milano - Italy
Jun 2013-Feb 2014	Building Engineer, Technic R&D Research & Development Sdn. Bhd., Malaysia

Project management experience

(*Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)*

Year	Project owner - Project - Role - Funder
2023-current	Research leader at **Energy and Indoor Environment research group**, SINTEF Community
2022-2023	SINTEF – **Smart Building Hub** – Project leader – RCN Norway (Total fund: 28 mNOK)
2021-2025	NTNU - **COLLECTiEF - Collective Intelligence for Energy Flexibility** – Coordinator/project leader - Horizon 2020 - European Commission (Total fund: 4.6 m€)
2022-2025	NTNU - **Optimal Utilization of Resources towards Neutral Climate Built Environments in Europe by 2030-2050 (LIFELINE-2050)** – WP Leader – NTNU (Total fund: 7 PhDs funded by faculty of engineering, NTNU)
2022-2025	Linnæus University (LNU) - **Harnessing Synergies and minimizing Trade-off among Deep Renovation measures and decarbonizing District Heating system (STaDRenDHeat)** – Task Leader – FORMAS Sweden (Total fund: 5 mSEK)
2021- 2025	Linnæus University (LNU) - **Project title: How prepared are Swedish detached houses to adapt to Climate Change?** – Task Leader - FORMAS Sweden (Total fund: 8.3 mSEK)
2020-2021	NTNU - **Konseptutredning for innovative energi-og klimaløsninger i bygg, områderog energisystem** – Task Leader – ENOVA (1.2 mNOK)

Supervision of students

Bachelor‘s student	Master's students	Ph.D. students	University/institution - Country
7	5	4	Norwegian University of Science and Technology NTNU – Norway, Linnaeus university-Sweden

Other relevant professional experiences

(E.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees, major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2020-2024	IEA EBC - Annex 82 - Energy Flexible Buildings Towards Resilient Low Carbon Energy Systems – National participant from Norway
2021-Present	Guest Editor, Applied Energy, Joint Special Issue on "Enhancing energy flexibility and climate resilience of urban energy systems"
2019- present	Reviewer in the Journals of Applied Energy, Energy and Buildings

Track record – Scientific Publications

1. IAC Avendano, KH Andersen, S Erba, **A Moazami**, M Aghaei, B Najafi. A novel framework for assessing the smartness and the smart readiness level in highly electrified non-residential buildings: A Norwegian case study, Energy and Buildings, 2024.
2. P Hajialigol, **A Moazami**, M Aghaei. Solar Energy System Integration for Energy Transition: A Short Review from Technologies and Methods to Energy Management System and Challenges, IntechOpen, 2024.
3. M Hosseini, S Erba, P Hajialigol, M Aghaei, **A Moazami**, VM Nik. Enhancing climate resilience in buildings using Collective Intelligence: A pilot study on a Norwegian elderly care center Energy and Buildings, 2024.
4. IAC Avendano, FD Javan, B Najafi, **A Moazami**. Calibration and validation of physics-based data-driven models for simulating the thermal behavior of indoor spaces in an assisted living facility E3S Web of Conferences 562, 2024.
5. KH Andersen, A Yang, A Pultier, **A Moazami**. Preliminary developments and insights of the Smart Building Hub: A Norwegian e-infrastructure for energy-flexible and healthy buildings, E3S Web of Conferences 562, 2024.
6. FD Javan, IAC Avendano, A Kaboli, B Najafi, **A Moazami**, S Perotti, ...Electricity demand flexibility estimation in warehouses using machine learning Big Data Application in Power Systems, 323-348, 2024
7. F Raymand, B Najafi, AH Mamaghani, **A Moazami**, F Rinaldi. Machine learning-based estimation of buildings' characteristics employing electrical and chilled water consumption data: Pipeline optimization. Energy and Buildings 295, 2023.
8. Manni, Mattia; Aghaei, Mohammadreza; Sizkouhi, Amir MM; Kumar, Ronald RR; Stølen, Reidar; Steen-Hansen, Anne Elise; Di Sabatino, Marisa; **Moazami, Amin**; Völler, Steve; Jelle, Bjørn Petter. Solar Energy in the Built Environment, 2023, Elsevier
9. Raymand, Farhang; Najafi, Behzad; Mamaghani, Alireza Haghighat; **Moazami, Amin**; Rinaldi, Fabio. Machine learning-based estimation of buildings' characteristics employing electrical and chilled water consumption data: Pipeline optimization, Energy and Buildings, 2023, Elsevier
10. Avendano, Italo Aldo Campodonico; Javan, Farzad Dadras; Najafi, Behzad; **Moazami, Amin**; Rinaldi, Fabio. Assessing the impact of employing machine learning-based baseline load prediction pipelines with sliding-window training scheme on offered flexibility estimation for different building categories, Energy and Buildings, 2023, Elsevier
11. Dadras Javan, Farzad; Campodonico Avendano, Italo Aldo; Najafi, Behzad; **Moazami, Amin**; Rinaldi, Fabio. Machine-Learning-Based Prediction of HVAC-Driven Load Flexibility in Warehouses, Energies, 2023, MDPI
12. Dadras Javan, F; Najafi, B; Rinaldi, F; Avedano, IAC; **Moazami, A;**. Modulating the HVAC demand of a wharehouse to provide load flexibility for charging electric trucks, ECMS, 2023
13. Aghaei, Mohammadreza; **Moazami, Amin**; Erba, Silvia; Hosseini, Mohammad; Avendano, Italo Aldo Campodonico; Shahid, Muhammad-Salman; Torrens-Galdiz, Ignacio; Mastandrea, Giuseppe; Solli, Runar; Riederer, Peter. Collective Intelligence for Energy Flexibility–Collectief: An EU H2020 Project for Enhancing Energy Efficiency and Flexibility in Existing Building, FES, 2023, IEEE
14. Hosseini Mohammad; Hajialigol Parisa; Aghaei Mohammadreza; Erba Silvia; Nik Vahid; **Moazami Amin**. Improving Climate Resilience and Thermal Comfort in a Complex Building through Enhanced Flexibility of the Energy System, SEST, 2022, doi: 10.1109/SEST53650.2022.9898453.
15. Nafisi Amin; Arababadi Reza; **Moazami Amin**; Mahapatra. Economic and emission analysis of running emergency generators in the presence of demand response programs, Energy, Volume 255, 2022, 124529, ISSN 0360-5442.
16. Carlucci, Salvatore; Causone, Francesco; Biandrate, Silvia; Ferrando, Martina; **Moazami, Amin**; Erba, Silvia. On the impact of stochastic modeling of occupant behavior on the energy use of office buildings. Energy and Buildings 2021 ;Volum 246.

17. Vahid, Nik; **Moazami, Amin**. Empowering energy flexibility and climate resilience using collective intelligence based demand side management (CI-DSM). Journal of Physics: Conference Series (JPCS) 2021 ;Volum 2069.
18. Eguia, Pablo; M. Mariño, Sandra; Granada, Enrique; **Moazami, Amin**; Hassan Mohamed, Mohamed Hamdy. A performance comparison of Multi-Objective Optimization-based approaches for calibrating white-box Building Energy Models.. Energy and Buildings 2020 ;Volum 216.
19. Nik, Vahid M.; **Moazami, Amin**. Using collective intelligence to enhance demand flexibility and climate resilience in urban areas. Applied Energy 2020 ;Volum 281.
20. **Moazami, Amin**. Climate Robust Buildings: Towards Buildings with a Robust Energy Performance Under Climate Change. Norges teknisk-naturvitenskapelige universitet 2019 (ISBN 978-82-326-4063-8) 172 s. Doktoravhandlinger ved NTNU(2019:233)
21. **Moazami, Amin**; Carlucci, Salvatore; Geving, Stig. Robust and resilient buildings: A framework for defining the protection against climate uncertainty. IOP Conference Series: Materials Science and Engineering 2019 ;Volum 609.
22. **Moazami, Amin**; Carlucci, Salvatore; Nik, Vahid; Geving, Stig. Towards climate robust buildings: an innovative method for designing buildings with robust energy performance under climate change. Energy and Buildings 2019 ;Volum 202.
23. **Moazami, Amin**; Nik, Vahid; Carlucci, Salvatore; Geving, Stig. Impacts of the future weather data type on the energy simulation of buildings – Investigating long-term patterns of climate change and extreme weather conditions. Applied Energy 2019 ;Volum 238. s. 696-720
24. Carlucci, Salvatore; Hamdy, Mohamed; **Moazami, Amin**. Challenges in the Modeling and Simulation of Green Buildings. I: Handbook of Energy Systems in Green Buildings. Springer 2017 ISBN 978-3-662-49088-4. s. 3-34
25. Korsnes, Marius; Wang, Yu; Lobaccaro, Gabriele; **Moazami, Amin**; Carlucci, Salvatore. Sustainable Architecture? How multi-cultural and interdisciplinary groups of master students achieve sustainable architecture in Shanghai. Living and Sustainability: An Environmental Critique of Design and Building Practices, Locally and Globally; 2017
26. Korsnes, Marius; Wang, Yu; Lobaccaro, Gabriele; **Moazami, Amin**; Carlucci, Salvatore. The Sustainability Challenge: How Multi-Cultural and Interdisciplinary Groups of Master Students Achieve Sustainable Architecture in Shanghai. AMPS PROCEEDINGS SERIES 2017 s. 187-198
27. **Moazami, Amin**; Carlucci, Salvatore; Geving, Stig. Critical Analysis of Software Tools Aimed at Generating Future Weather Files with a view to their use in Building Performance Simulation. Energy Procedia 2017 ;Volum 132C. s. 640-645
28. **Moazami, Amin**; Carlucci, Salvatore; Causone, Francesco; Pagliano, Lorenzo. Energy retrofit of a day care center for current and future weather scenarios. Procedia Engineering 2016 ;Volum 145. s. 1330-1337
29. Pagliano, Lorenzo; Carlucci, Salvatore; Causone, Francesco; **Moazami, Amin**; Cattarin, Giulio. Energy retrofit for a climate resilient child care centre. Energy and Buildings 2016 ;Volum 127. s. 1117-1132
30. Causone, Francesco; Carlucci, Salvatore; **Moazami, Amin**; Cattarin, Giulio; Pagliano, Lorenzo. Retrofit of a Kindergarten Targeting Zero Energy Balance. Energy Procedia 2015 ;Volum 78. s. 991-996
31. Causone, Francesco; **Moazami, Amin**; Carlucci, Salvatore; Pagliano, Lorenzo; Pietrobon, Marco. Ventilation strategies for the deep energy retrofit of a kindergarten. I: 36th AIVC Conference – Effective ventilation in high performance buildings. Air Infiltration and Ventilation Centre (AIVC) 2015 ISBN 9783901425134. s. 991-1001