Gregorio Borelli
University academic curriculum vitae

EDUCATION

Free University of Bozen-Bolzano/University of Trento   **Bolzano, Italy**
MSc in Energy Engineering   9/2021 – 9/2023
- Grade 110/110 cum laude
- Relevant courses: Building HVAC Systems, Advanced Applications of Building Physics, District heating systems design, Electrical Systems Engineering

Norwegian University of Science and Technology   **Trondheim, Norway**
Erasmus Program   8/2022 – 12/2022
- Relevant courses: Python for Sustainability Analysis, Energy Management in Buildings, Energy system analysis, Life Cycle Assessment

University of Trento   **Trento, Italy**
BSc in Industrial Engineering   09/2017 – 07/2021
- Grade: 110/110

EXPERIENCE

PhD Student   **Bolzano, Italy**
PhD in Sustainability Energy and Technology   October 2023 – Present

Bruno Kessler Foundation   **Trento, Italy**
Intern   2/2023 – 10/2023

PUBLICATION

- Menin Lorenzo, **Borelli Gregorio**, Prada Alessandro, Pernigotto Giovanni, Gasparella Andrea, Baratieri Marco. 2025. 'Decarbonization of space heating in the Italian Alpine context: Thermo-economic assessment of the levelized energy cost of heating under alternative renewable scenarios' Energy Conversion and Management: X 25. https://doi.org/10.1016/j.ecmx.2025.100886
- Gregorio Borelli, Ilaria Ballarini, Vincenzo Corrado, Andrea Gasparella, & Giovanni Pernigotto. (2025). Assessment and Mapping of the Urban Heat Island Effect: A Preliminary Analysis on the Impact on Urban Morphology for the City of Turin, Italy. In Proceedings of the Building Simulation Applications Conference (BSA 2025), pp. 525–531
- **Gregorio Borelli**, Federico Battini, Giovanni Pernigotto, & Andrea Gasparella. (2025). *Influence of Urban Microclimate on the Energy Performance of Buildings of Complex Shapes in Different District Layouts and Climates*. In Umberto Berardi (Ed.), IABP 2024, Lecture Notes in Civil Engineering (Vol. 553, pp. 336–342). Springer Nature Singapore. https://doi.org/10.1007/978-981-97-8309-0_45
- **Gregorio Borelli**, Silvia Ricciuti, Md Shahriar Mahbub, Alessandro Sartori, Andrea Gasparella, Giovanni Pernigotto, Federico Battini, Diego Viesi. 2024. 'Simulation of energy scenarios for the transition of an urban

neighborhood into a renewable energy community', International Journal of Sustainable Energy Planning and Management (IJSEPM) *42*, 28–47, https://doi.org/10.54337/ijsepm.8235

- Viesi Diego, **Gregorio Borelli**, Silvia Ricciuti, Giovanni Pernigotto, and Md Shahriar Mahbub. 2024. 'Modeling the Optimal Transition of an Urban Neighbourhood towards an Energy Community and a Positive Energy District'. Energies 17 (16): 4047. https://doi.org/10.3390/en17164047.0

LANGUAGES

Italian (native), English (C1), German(A2)

LICENSES AND CERTIFICATIONS

- Italian license to practice as Energy Engineer
- Machine Learning Specialization Course (COURSERA)
- Deep Learning Specialization Course (COURSERA)

Date 26/05/2025   Signature