

Chiara Fusar Bassini

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Education

- Massachusetts Institute of Technology, Cambridge, US**, Visiting PhD Jan 2025 – currently
- Affiliations: Laboratory for Information and Decision Systems, Department of Electrical Engineering and Computer Science
 - Main supervisor: Prof. Priya Donti
 - Notable achievements: Scholarship from the German Energy Agency (DENA)
- Hertie School, Berlin, Germany**, PhD in Machine Learning for Energy Markets Jun 2023 – currently
- Affiliations: Centre for Sustainability, Data Science Lab
 - Main supervisors: Prof. Lynn Kaack, Prof. Lion Hirth
- Technical University of Berlin, Germany**, Msc in Scientific Computing (Applied Mathematics) Oct 2019 – Mar 2022
- Final grade: 1.2 (GPA equivalent: 3.8)
 - Master thesis: *A time-expanded Knapsack Problem with quadratic constraints*
- Bocconi University, Milan, Italy**, Bsc in Economics, Management and Computer Science Sep 2016 – Jul 2019
- Final grade: 110/110 cum laude (GPA equivalent: 4.0)
 - Bachelor thesis: *The role of Social Time Preference in Integrated Assessment Modelling for Climate Change*
 - Notable achievements: Exchange semester to the Hong Kong University of Science and Technology (2019)

Professional experience

- Teaching Assistant**, Hertie School, Berlin, Germany Sep 2023 – Jan 2024
- Lab session of the master course in Deep Learning (Winter Semesters 2023/24 and 2024/25)
- Energy consultant**, enervis energy advisors GmbH, Berlin, Germany Apr 2022 – Dec 2023
- Managed and developed inhouse solar projects database
 - Contributed to major improvements of the solar tender model
- Working student**, Vattenfall GmbH, Berlin, Germany Nov 2019 – Mar 2022
- Prediction and clustering of energy consumption time series for the Data Science Team
 - Managed and automated project documentation for the Solar and Battery Team
- Technology intern**, Energenious, Berlin, Germany June 2020 – Sep 2020
- Interned in a start-up developing software solutions for decentralized energy supply

Publications

- Fusar Bassini, C., Xu, A. L., Sánchez Canales, J., Hirth, L., & Kaack, L. H. (2025). *Flexibility of German gas-fired generation: evidence from clustering empirical operation*. arXiv preprint.
- Fusar Bassini, C., Hackel, L., & Kirschbaum, T. (2024). *IDLEWiSE - A Conceptual Approach for AI-Assisted Energy Efficiency in HPC Clusters*. Weizenbaum Journal of the Digital Society. Volume 5, Issue 1.

Academic service

- **Presentations:** Code.talk 2024 (Sep 2024), DACH+ Energy Informatics Conference (Oct 2024), Women in Data Science Conference (Mar 2025), MIT Energy Initiative (Mar 2025)
- **Workshops (organized):** Market Power in Energy Markets (Nov 2024)
- **Workshops (attended):** PERSEE Centre Summer School on sustainable energy systems (Jun 2025), BIFOLD Summer School on AI and ecological sustainability (Sep 2023)
- **Podcasts:** Environment Variables, Episode 80 (Sep 2024)
- **Reviews:** Environmental Modeling & Assessment (Springer Nature)

Leadership

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| Team member , Strommarkttreffen, Berlin, Germany | May 2024 - currently |
| • Organize monthly meetings of energy researchers and practitioners | |
| PhD representative , Hertie School, Berlin, Germany | Jan 2024 - Dec 2024 |
| • Represented the interests of PhD students on academic and administrative committees | |
| Event organizer , Green Light for Business, Milan, Italy | Sep 2017 - Sep 2018 |
| • Co-organized conferences and workshops on sustainability-related topics for a student association | |

Skills

Programming: Python (proficient), R, Matlab, SQL, HTML (knowledgeable)
Deep Learning Frameworks: PyTorch, scikit-learn (proficient), TensorFlow (knowledgeable)
Languages: Italian (native), German, English, Spanish (proficient), French (knowledgeable)