



## Anna Trevisan

Date of birth: 29/04/2000

MSc Energy engineer

Mathematical engineer

Politecnico di Milano

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🌐 LinkedIn Profile

## EDUCATION

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- **Master Industrial AI** 2024  
*Industrial AI bootcamp*
- **Politecnico di Milano, Energy engineering** 2024  
*Master program in energy engineering, Energy use and built environment*
- **Chalmers - University of technology, Göteborg** 2023  
*Erasmus: Sustainable energy systems - Structural and building technology*
- **Politecnico di Milano, Mathematical engineering** 2022  
*Bachelor degree*

## EXPERIENCE

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- **Mipu Energy Data** feb 2024  
*Energy data science analyst* Dueville - VI
  - Lead end-to-end development of Machine Learning projects, including data collection, preprocessing, exploratory data analysis, feature engineering, model selection, training, and performance evaluation
  - Collaborate closely with clients to gather data and technical requirements, translate business needs into technical specifications, and present project updates, ensuring alignment and stakeholder satisfaction
  - Mentor and manage interns, providing technical guidance and ensuring their integration into project workflows. Coordinate teams, overseeing task planning, technical execution, and overall progress to meet project deadlines and quality standards
  - Develop and maintain SDKs to transition offline-trained models into production environments, adhering to software engineering best practices and system integration constraints. Work side-by-side with software engineers to design robust, scalable deployment architectures
  - Configure and maintain optimization software based on client objectives, including cost function design, constraint implementation, and post-optimization result analysis
- **Olimpic Mathematics Training** 2015-2018  
*Summer math camp for selected students in the field of Olimpic Mathematics* Paderno
- **Puffins childcare** 2017  
*Teacher assistant at nursery school with children from 6 months to 4 years old* Cahersiveen, Ireland

## TECHNICAL SKILLS

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- **Data Science / AI:** Machine Learning, Deep Learning, Applied Machine Learning, Optimization, Data Engineering, Data cleaning, Data visualization, Preprocessing, Feature Engineering, Model optimization, Time Series Analysis, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Pytorch, Tensorflow, Keras, Streamlit, MLOps ETL, LLM Digital Twin, Classification and clustering, Data storytelling, Predictive maintenance
- **Programming:** Python, R, SQL (basic knowledge, currently upskilling), Matlab, LaTeX, Simulink
- **Energy Software:** OpenStudio, IDA ICE, Wufi, Autocad
- **Energy Field:** HVAC design, Energy Management, Indoor thermal climate and comfort, Heating and cooling systems, Building energy performance
- **Business / Management:** Project management, agile workflow, time management, supply chain management, production planning and control
- **Productivity Tools:** Office package (Excel, Word, PowerPoint), ClickUp, Github
- **Languages:** Italian (mother tongue), English (C1), French (Intermediate)

## PROJECTS

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- Master thesis** 2024  
*Mathematical modeling and energy optimization of a district heating system with machine learning* Dueville (VI)
  - Industrial AI project comprehensive of data collection and cleaning, data analysis, exploratory data, ML/DL algorithms implementation, tuning, testing and validation
  - Topics: Time series analysis, machine learning, deep learning, genetic algorithm, optimization, district heating, heat storage, CHP, boilers, white certificates, thermal energy demand forecasting
  - Softwares used: Python, Overleaf, Office package, Sowftware Development Kit, Rebecca, Nia
- HVAC: Design of operating theater in Hospital** 2023  
*Project work, university, design of complete HVAC system for OR, sw: Autocad* Milano
- Project management - installation of PV system in a school in Milan** 2024  
*Project work, university, installation of PV system* Milano
- Digital twin for energy systems management - project** 2023  
*Project work, university, tools for the creation of a digital twin, sw: Matlab, Simulink* Milano
- Design of a commercial office and supermarket building** 2023  
*Project work, Chalmers university, holistic design of a building, sw: Simulink, IDA ICE, Wufi, Autocad* Göteborg
- Tidal power generation, scientific paper** 2023  
*Project work, Chalmers university - Writing of a scientific paper about tidal power generation, sw: LaTeX* Göteborg
- Green building - energy optimization** 2023  
*Project work, university - Energy analysis and optimization, sw: Openstudio, Office* Milano
- Models and methods for inferential statistics** 2021  
*Project work, university: Linear regression analysis and data prediction, sw: R* Milano

## PERSONAL COURSES

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- Project management: lean and agile workflows 2025
- Course expert in energy management 2025
- Information design 2025
- Python course for mathematical engineering, Politecnico di Milano 2020
- Introductory course in Matlab for mathematical engineering, Politecnico di Milano 2019
- Summer study trip, Cahersiveen, Galway 2015-2017

## SOFT SKILLS AND INTERESTS

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**Soft Skills:** Team player, stakeholder communication, problem solving, nitpicky attention to details, cultural awarness, quick learning

**Hobbies:** Bake, knit, crochet, cooking, embroidery, Formula1

**Sports:** Classic dance, modern dance, dance competitions, dance shows, ski, scout, tennis

## ACHIEVEMENTS AND CERTIFICATIONS

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- TOEIC level C1 2022  
*English certification*
- Mathematics team competition - mixed and female 2018-2019  
*Partecipation at national semifinals and finals mathematics team competition, Cesenatico*
- Commendation letter - lettera di encomio 2016-2019  
*Aknowledgement as deserving student, every semester from third to fifth year*
- Maffei's Award 2014  
*Award as school's best student*