PAOLO CONTI

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- Milan & Bergamo, Italy

EDUCATION

PhD in Structural, Seismic and Geotechnical Engineering
Politecnico di Milano

📅 May 2021 – Ongoing   📍 Milan, Italy

Research about Reduced Order Modeling with Deep Learning for nonlinear dynamical systems.

Msc Mathematical Engineering: *Modeling & Data Analysis*
Politecnico di Milano   🎓 Score: 110/110 cum laude

📅 Sept 2018 – Apr 2021   📍 Milan, Italy

- **MSc. Thesis**: *"Multifidelity regression with multistep artificial neural networks"*. Tutor: Prof. Andrea Manzoni

Erasmus exchange
Sorbonne Université

📅 Sept 2019 – July 2020   📍 Paris, France

Bsc in Mathematical Engineering
Politecnico di Milano   🎓 Score: 110/110

📅 Sept 2015 – Sept 2018   📍 Milan, Italy

- BSc. Thesis: *"Stationary Schrödinger equation: existence of a fundamental state"*. Tutor: Prof. Sandro Salsa

Erasmus exchange
BME - Budapest University of Technology and Economics

📅 Aug 2017 – Jan 2018   📍 Budapest, Hungary

Scientific High School
Liceo Scientifico F. Lussana

📅 2010 – 2015   📍 Bergamo, Italy

EXPERIENCES

Member of the Data Scientist Academy

📅 Oct 2020 – Feb 2021   📍 Milan, Italy

Selected in an innovative Data Science team at Politecnico di Milano, in collaboration with KPMG, Saipem, Teamsystem and Wind Tre.

International gymnastic coach and choreographer

📅 2016 – Ongoing   📍 Italy, Hungary, Finland

Member of ASD Aerobica Evolution, Bergamo (Italy).

PUBLICATIONS

M. Guo, A. Manzoni, M. Amendt, P. Conti and J.S. Hesthaven.
"Multi-fidelity regression using artificial neural networks: efficient approximation of parameter-dependent output quantities", CMAME, 2022, 389: 114378.

SCIENTIFIC PROJECTS

Applied Statistics `R`
- *"What do you need to climb the charts?"* - Analysis of Spotify Dataset.

High performance computing `CUDA`
- *"GPU Merge Path"* - Batch merge and merge path sort algorithms.

C++ projects `C/C++`
- *Resolution of Poisson problem* - Implementation of finite difference resolution with UMFPACK.
- *Scheduling problem resolution and optimization.*

SKILLS

Programming Languages and Frameworks:

Advanced	C/C++, MATLAB, R, SQL.
Proficient	Python, Office, CUDA, MPI.

ACHIEVEMENTS

🎓 **Academic & Sporting Merit scholarship**
Four times recipient of the *Academic and Sporting Merit* scholarship, established by Politecnico di Milano, in 2015, 2016, 2017, 2018.

🏆 **Sport Awards**
in Aerobic Gymnastics
- *Silver medal of Athletic Value* winner, awarded by CONI, in 2016 - 2017.
- *Oscar of Gymnastics* winner in 2015.
- Vice-World Champion in 2016 and European Champion in 2015.
- Italian National Champion in 2021 and member of the National Team since 2010.

LANGUAGES

Italian	Native language
English	Professional
French	B1 - Sorbonne Université Course
Spanish	Basic Level

ASSOCIATIONS

⚧ **Volunteer in *Bergamo Pride***
LGBTQIA+ activist since 2020.

👥 **Current member of AIM**
Mathematical Engineer's Society at Politecnico di Milano since 2017.

💻 **Member of Polimi Data Scientists**
Since 2019.