Stefano Moret | full CV

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About me

PhD in Energy with a multidisciplinary background across Engineering and Data Science, my main area of expertise is **modeling and optimization of energy systems under uncertainty**. I am currently a Principal Investigator and Group Leader at ETH Zurich, sponsored by a Swiss National Science Foundation (SNSF) Ambizione fellowship. Before that, I was a Research Associate & SNSF Fellow at Imperial College London (2019-2022) and a postdoc & lecturer at EPFL (2017-2019). To date, I have authored 30+ scientific publications (cited 1500+ times), and I am fluent in Italian, English, French and Spanish; intermediate in German and Chinese. My goal is to contribute to the energy transition, through research, teaching and collaboration with industry.

Education

École Polytechnique Fédérale de Lausanne (EPFL) — **Switzerland**
PhD Energy — *2013–2017*
Dissertation title: *Strategic energy planning under uncertainty* (October 20, 2017)
Supervisors: Prof. F. Maréchal, Prof. M. Bierlaire

University of Padova — **Italy**
MSc Mechanical Engineering, 110/110 with honors — *2009–2012*
GPA: 29.5/30

University of California, Berkeley — **USA**
Academic exchange for MSc Thesis, BEST lab — *Aug 2011 - Jan 2012*
Dissertation title: *Energy efficiency in lighting: daylight harvesting optimization and Wireless Sensor Networks*

NTNU — **Norway**
Academic exchange, Erasmus program — *2010*

University of Padova — **Italy**
BSc Industrial Engineering, 110/110 with honors — *2006–2009*
GPA 29.3/30

High School — **Italy**
Scientific High School diploma, 100/100 — *2001–2006*

Professional experience

ETH Zurich — **Switzerland**
Principal Investigator and Group Leader, Dept. of Mechanical and Process Engineering — *Sept 2022–present*
- Awardee of SNSF Ambizione fellowship (4 years) hosted by André Bardow's EPSE group
- Leading independent group focusing on the consideration of uncertainty in energy planning and strategic decision-making
- PI of project *RIMES – Robust Integrated Modeling for Energy and Engineering Systems*

Imperial College London — **UK**
Research Associate, Department of Chemical Engineering and Business School — *2021–2022*
- Models and algorithms for decision-making under uncertainty (Wolfram Wiesemann's and Nilay Shah's groups)
- Integrated Development of Low-Carbon Energy Systems (IDLES) project: integrated modeling and optimization for the future UK energy system

Swiss National Science Foundation (SNSF) Research Fellow — *2019–2021*
- Awardee of SNSF Early-Postdoc Mobility Fellowship (20 months)
- PI of project: *Advanced stochastic framework for energy planning under uncertainty*

j4 — **Italy**
Co-Founder — *2018–present*
j4energy develops advanced simulation and optimization models for large-scale energy systems

École Polytechnique Fédérale de Lausanne (EPFL) **Switzerland**
Postdoc and lecturer, Industrial Process and Energy Systems Engineering (IPESE) group *2017–2019*

- Lecturer: *Energy conversion and renewable energy* Master course (watch)
- Research: modeling and optimization of national energy systems. Active in multiple projects, mainly funded by the Swiss Competence Center for Energy Research (SCCER) and the SNSF

Research and teaching assistant, IPESE group *2013–2017*

- Research: modeling and optimization under uncertainty of urban and national energy systems.
- Main research projects: Swiss-energyscope.ch (decision support for the Swiss energy strategy); Geotherm II (integration of deep geothermal energy in cities)
- Teaching: Assistant to Master and PhD energy courses with lectures and exercises
- Teaching: 20+ supervised students (10 Master theses)

University of Padova **Italy**
Temporary research fellow, Industrial Engineering Department *2013*
6-month research project funded by ENEL Foundation

California Lighting Technology Center – University of California, Davis **USA**
Junior Specialist *2012*
Building energy simulation, experimental tests for fenestration devices

JEst - Junior Enterprise, University of Padova **Italy**
Associate, President (year 2011) *2009-2011*
Non-profit student association. Consultancy and event organization. Highlights:

- Start Cup Giovani, project manager: university course and start-up competition in 3 universities (250+ students). Obtained and managed 240 k€ funding from the Italian Prime Minister's Office, Department of Youth.
- Becoming Manager 2009, project manager: job meeting and recruitment event. Generated 30 k€ revenue.
- President: management of 35 associates

FIAMM Spa **Italy**
Summer intern *2009*
Energy storage. BSc thesis: LabVIEW application for Statistical Process Control

Aluminium Rheinfelden GmbH **Germany**
Intern *2008*
Aluminium foundry. One-month research on innovative aluminum alloys (collaboration with University of Padova)

ACC compressors Spa **China**
Summer intern *2006–2008*
Compressor manufacturer. Quality engineer, chemical and acoustic laboratory work

DSG Srl **Italy**
Summer intern *2005*
Stainless steel processing. Direct labor experience.

Grants & Awards

Imperial College Research Fellowship (£217'616): Awardee of 4-year fellowship, sponsored by Prof Richard Green, Imperial College Business School. 2022. Following an independent recruitment process, I was additionally offered a permanent appointment by the College as Lecturer (UK Assistant Professor) starting in 2025 (declined).

Swiss National Science Foundation Ambizione grant (756'179 CHF): Awardee of 4-year grant, supported by the Department of Mechanical and Process Engineering at ETH Zurich. 2021.

Swiss National Science Foundation Early Postdoc Mobility fellowship (88'400 CHF): Awardee of 20-month fellowship, fully financing research visit at Imperial College London (UK). 2019.

Grants: Contributor, total of **3.25 Million CHF** research grants awarded to IPESE group (EPFL)

EDEY Outstanding PhD Thesis Award 8%: shortlisted

ABB award for best EPFL PhD thesis in energy: nominated by the jury

University of California Education Abroad Program scholarship: Reciprocity student at UC Berkeley, 2011

Erasmus scholarship: NTNU (Norway), 2010

Energy efficiency contest "Think Green, Be Efficient": honorable mention for MSc thesis. Italian Senate, 2012.

JADE Excellence Awards: 1st most innovative and creative project for *Start Cup Giovani*. EU Parliament, 2012.

JADE Excellence Awards: 2nd most innovative and creative project for *Becoming Manager*. EU Parliament, 2011.

Introduction to Modeling and Optimization of Sustainable Energy Systems: Uncertainty in energy systems

Teaching activities

Guest lecturer: *Uncertainty in energy systems* module as part of the "Introduction to Modeling and Optimization of Sustainable Energy Systems" course, ETH Zurich, Fall 2022.

Guest lecturer: *Data Science and Digitalisation in the Energy Sector* module, Imperial College London Sustainable Energy Futures MSc, Spring 2021, Spring 2022.

Lecturer: *Energy Conversion and Renewable Energy*, EPFL Master course, Fall 2018. Positive/very positive feedback by **95%** of students. Videos of the course publicly available online

Supervision of students: co-supervised 10 Master theses, 10+ semester projects

Teaching assistant: Lectures, exercises and management for Master level and PhD level courses at EPFL (years 2013-2019) on the topics of energy systems, thermodynamics, energy technologies, modelling, optimization.

Doctoral Theses

1. M. Yliruka. Imperial College London (UK), ongoing. Co-supervisor.

Master Theses (co-supervision)

1. M. Borasio. *Italy Energyscope: energy system modeling and scenarios for the Italian energy transition.* Politecnico di Torino (Italy), 2019.
2. N. Cobo-Losey Rodriguez. *Cruise-ship energy system design and optimization under uncertainty.* Universidad Pontificia Comilla (Spain), 2018.
3. S. Breton. *A GIS-integrated methodology for the optimal design of a district heating network - A case study of the city of Sion.* EPFL (Switzerland), 2017.
4. P. Campos. *Assessment of energy generation technologies at an urban scale. Case study: Concepción, Chile.* Northwestern University (USA), 2016.
5. M. Nasato. *Biomass energy pathways in Switzerland.* University of Padova (Italy), 2016.
6. A. Boss. *Integration of Geothermal Energy from Medium-Depth Aquifers in New Urban Districts - The Case Study of Malley (Lausanne, Switzerland).* EPFL(Switzerland), 2016.
7. J. Unternährer. *Combining Geographical Information Systems and Optimization for Geothermal Energy Integration in Urban Systems - The case study of the City of Lausanne.* EPFL (Switzerland), 2016.
8. F. Fogari. *Aquifer thermal energy storage modelling and integration in district heating system applied to the Lausanne city case.* University of Genova (Italy), 2015.
9. F. Amblard. *Geothermal energy integration in urban systems. The case study of the city of Lausanne.* EPFL (Switzerland), 2015.
10. M. Pernet. *Smart heat design – urban energy system design under uncertainty.* EPFL (Switzerland), 2014.

Service

Doctoral Theses

1. D. Tonelli. *Techno-economic analysis of electrofuels: from a local to a global value-chain integration.* Université Catholique de Louvain (Belgium), ongoing. Member of the supervisory panel.
2. X. Rixhon. *Optimized and robust energy transition pathway for Belgium through uncertainty quantification.* Université Catholique de Louvain (Belgium), ongoing. Member of the supervisory panel.
3. A. Clerjon. *Analysis and modeling of the impacts of the development of intermittent renewable energies on the French electricity system: Study of the potential of electricity storage and the complementarity with heat.* Université Grenoble Alpes (France), 2021. Member of the jury.

Individual reviewer activities

Track Chair: Global Power and Propulsion Society (GPPS) 2021 Technical Conference, *Energy Systems & Carriers, Energy Transition, & Renewables* track

Reviewer for: *Sustainable Cities and Society, Energy, Energy Conversion and Management, European Journal of Operational Research, Operations Research Letters, Energy Strategy Reviews, Communications Earth & Environment (Nature)* journals

Publications

PhD thesis

S. Moret, *Strategic energy planning under uncertainty*. EPFL, Lausanne, 2017. Advisors: F. Maréchal, M. Bierlaire. DOI: 10.5075/epfl-thesis-7961.

Journal articles

1. M. Yliruka, S. Moret and N. Shah. *Detail or uncertainty? Applying global sensitivity analysis to strike a balance in energy system models. Under Review* in **Computers & Chemical Engineering**.
2. J. D'Aeth*, S. Ghosal*, F. Grimm*, D. Haw*, E. Koca*, K. Lau*, H. Liu*, S. Moret*, D. Rizmie*, P. C. Smith, G. Forchini, M. Miraldo and W. Wiesemann. *Optimal Hospital Care Scheduling During the SARS-CoV-2 Pandemic. Accepted* in **Management Science** (*Contributed equally).
3. M. Borasio* and S. Moret*. *Deep decarbonisation of regional energy systems: a novel modelling approach and its application to the Italian energy transition.* **Renewable & Sustainable Energy Reviews**, 2022. Vol. 153, p. 111730. DOI: 10.1016/j.rser.2021.111730 (*Contributed equally)
4. J. D'Aeth*, S. Ghosal*, F. Grimm*, D. Haw*, E. Koca*, K. Lau*, S. Moret*, D. Rizmie*, S. Deeny, P. N. Perez-Guzman, N. Ferguson, K. Hauck, P. C. Smith, W. Wiesemann, G. Forchini and M. Miraldo. *Optimal National Prioritization Policies for Hospital Care During the SARS-CoV-2 Pandemic.* **Nature Computational Science**, 2021. Vol. 1, p. 521–531. DOI: 10.1038/s43588-021-00111-1 (*Contributed equally).
5. F. Contino, S. Moret, G. Limpens and H. Jeanmart. *Whole-energy system models: the advisors for the energy transition.* **Progress in Energy and Combustion Science**, 2020. Vol. 81, p. 100872. DOI: 10.1016/j.pecs.2020.100872.
6. E. Guevara, F. Babonneau, T. Homem-de-Mello and S. Moret. *A combined machine learning and distributionally robust approach to deal with uncertainty in strategic energy planning.* **Applied Energy**, 2020. Vol. 271, p. 115005. DOI: 10.1016/j.apenergy.2020.115005.
7. F. Baldi, S. Moret, K. Tammi and F. Maréchal. *The role of solid oxide fuel cells in future ship energy systems.* **Energy**, 2020. Vol. 194, p. 116811. DOI: 10.1016/j.energy.2019.116811.
8. S. Moret, F. Babonneau, M. Bierlaire and F. Maréchal. *Overcapacity in European power systems: analysis and robust optimization approach.* **Applied Energy**, 2020. Vol. 259, p. 113970. DOI: 10.1016/j.apenergy.2019.113970.
9. S. Moret, F. Babonneau, M. Bierlaire and F. Maréchal. *Decision support for strategic energy planning: a robust optimization framework.* **European Journal of Operational Research**, 2020. Vol. 280 (2), p. 539-554. 10.1016/j.ejor.2019.06.015
10. X. Li, T. Damartzis, Z. Stadler, S. Moret, B. Meier, M. Friedl and F. Maréchal. *Decarbonization in complex energy systems: a study on the feasibility of carbon neutrality for Switzerland in 2050.* **Frontiers in Energy Research**, 2020. DOI: 10.3389/fenrg.2020.549615.
11. G. Limpens, S. Moret, H. Jeanmart and F. Maréchal. *EnergyScope TD: a novel open-source model for regional energy systems.* **Applied Energy**, 2019. Vol. 255, p. 113729. DOI: 10.1016/j.apenergy.2019.113729
12. S. Moret, V. Codina Gironès, M. Bierlaire and F. Maréchal. *Characterization of input uncertainties in strategic energy planning models.* **Applied energy**, 2017. Vol. 202, p. 597-617. DOI: 10.1016/j.apenergy.2017.05.106
13. V. Codina Gironès, S. Moret, E. Peduzzi, M. Nasato and F. Maréchal. *Optimal use of biomass in large-scale energy systems: insights for energy policy.* **Energy**, 2017. Vol. 137, p. 789-797. DOI: 10.1016/j.energy.2017.05.027
14. J. Unternährer, S. Moret, S. Joost and F. Maréchal. *Spatial clustering for district heating integration in urban energy systems: application to geothermal energy.* **Applied Energy**, 2017. Vol. 15, p. 749-763. DOI: 10.1016/j.apenergy.2016.12.136
15. S. Moret, E. Peduzzi, L. Gerber and F. Maréchal. *Integration of deep geothermal energy and woody biomass*

conversion pathways in urban systems. **Energy Conversion and Management**, 2016. Vol. 129, p. 305-318. DOI: 10.1016/j.enconman.2016.09.079

16. S. Moret, M. Bierlaire and F. Maréchal. *Robust optimization for strategic energy planning.* **Informatica**, 2016. Vol. 27, num. 3, p. 625-648. DOI: 10.15388/Informatica.2016.103
17. V. Codina Gironès, S. Moret, F. Maréchal and D. Favrat. *Strategic energy planning for large-scale energy systems: a modelling framework to aid decision-making.* **Energy**, 2015. Vol. 90, p. 173-186. DOI: 10.1016/j.energy.2015.06.008

Conference papers

1. M. Yliruka, S. Moret, F. Jalil-Vega, A. Hawkes and N. Shah. *The Trade-Off between Spatial Resolution and Uncertainty in Energy System Modelling.* Proceedings of the14th International Symposium on Process Systems Engineering (PSE 2021+), Japan, 2022. DOI: 10.1016/B978-0-323-85159-6.50339-0
2. E. Guevara, F. Babonneau, T. Homem-de-Mello and S. Moret. *Planificación energética bajo incertidumbre: importancia de los enfoques e hipótesis estocásticos en las soluciones robustas.* XIII Chilean conference on Operations Research (OPTIMA), Chile, 2019. Link to full text
3. G. Limpens, S. Moret, G. Guidati, X. Li, F. Maréchal and H. Jeanmart. *The role of storage in the Swiss energy transition.* In Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Poland, 2019. Link to full text
4. X. Li, S. Moret, F. Baldi and F. Maréchal. *Are renewables really that expensive? The impact of uncertainty on the cost of the energy transition.* In Proceedings of 29th European Symposium on Computer Aided Process Engineering, p 1753-1758, The Netherlands, 2019. DOI: 10.1016/B978-0-12-818634-3.50293-9
5. M. L. Della Vedova, E. Tacchini, S. Moret, G. Ballarin, L. de Alfaro and M. Di Pierro. *Automatic online fake news detection combining content and social signals.* In Proceedings of the FRUCT22 conference, Finland, 2018. DOI: 110.23919/FRUCT.2018.8468301
6. E. Tacchini, G. Ballarin, M. L. Della Vedova, S. Moret, and L. de Alfaro. *Some like it hoax: automated fake news detection in social networks.* In Proceedings of the Second Workshop on Data Science for Social Good, Macedonia, 2017. Vol. 1960. CEUR-WS. Link to full text
7. S. Moret, M. Bierlaire and F. Maréchal. *Strategic energy planning under uncertainty: a mixed-integer linear programming modeling framework for large-scale energy systems.* In Proceedings of the 26th European Symposium on Computer Aided Process Engineering, p. 1899-1904, Slovenia, 2016. DOI: 10.1016/B978-0-444-63428-3.50321-0
8. J. Rager, S. Moret, M. Pernet and F. Maréchal. *Integrating uncertainty into urban energy system design.* In Proceedings of the 26th European Symposium on Computer Aided Process Engineering, p. 1641-1646, Slovenia, 2016. DOI: 10.1016/B978-0-444-63428-3.50278-2
9. V. Codina Gironès, S. Moret, E. Peduzzi, M. Nasato and F. Maréchal. *Optimal use of biomass in large-scale energy systems: insights for energy policy.* In Proceedings of the 29th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Slovenia, 2016.
10. S. Moret, L. Gerber, F. Amblard, E. Peduzzi and F. Maréchal. *Geothermal energy and biomass integration in urban systems: a case study.* 40th Workshop on Geothermal Reservoir Engineering, USA, 2015. Link to full text
11. S. Moret, V. Codina Gironès, F. Maréchal and D. Favrat. *Swiss-energyscope.ch: a platform to widely spread energy literacy and aid decision-making.* In Proceedings of the 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, p. 877-882, Czech Republic, 2014. DOI: 10.3303/Cet1439147
12. S. Moret, M. Noro and K. Papamichael. *Daylight harvesting: a multivariate regression linear model for predicting the impact on lighting, cooling and heating.* Building Simulation Applications, Italy, 2013. Link to full text

Technical reports

1. J. D'Aeth*, S. Ghosal*, F. Grimm*, D. Haw*, E. Koca*, K. Lau*, S. Moret*, D. Rizmie*, S. Deeny, P. N. Perez-Guzman, N. Ferguson, K. Hauck, P. C. Smith, W. Wiesemann, G. Forchini and M. Miraldo. *Report 40: Optimal scheduling rules for elective care to minimize years of life lost during the SARS-CoV-2 pandemic: an application to England.* Imperial College London, UK, 2020. DOI: 10.25561/84788 (*Contributed equally).

Invited talks and presentations

1. S. Moret. *Whole-energy systems planning under uncertainty.* Invited talk, Reliability & Risk Engineering Laboratory, ETH Zürich, October 2022.
2. S. Ghosal, E. Koca, H. Liu, S. Moret and W. Wiesemann. *Optimal Hospital Care Scheduling During the COVID-19 Pandemic.* Poster presentation, "Towards the future of AI" event at Imperial College London, June 2022.
3. S. Moret. *The EnergyScope model and its application to the Italian energy transition.* Invited talk, RSE (Ricerca Sistema Energetico), March 2022.
4. S. Moret. *The EnergyScope model and its application to the Italian energy transition.* Invited talk, Energy and Process Systems Engineering Group, ETH Zürich, January 2022.
5. S. Moret. *Optimal national prioritization policies for hospital care during the SARS-CoV-2 pandemic.* Invited talk, Annual Industrial Consortium Meeting, Sargent Centre for Process Systems Engineering, Imperial College London, December 2021.
6. S. Moret. *Optimal scheduling rules for elective care to minimize years of life cost during the SARS-CoV-2 pandemic: an application to England.* Invited talk, *Hot Research Papers* seminar series, Sargent Centre for Process Systems Engineering, Imperial College London, July 2021.
7. S. Moret. *Whole-energy systems planning under uncertainty: a robust optimization framework.* Invited talk, Automatic Control Laboratory (IfA), ETH Zürich, May 2021.
8. S. Ghosal and S. Moret. *Weakly-coupled dynamic programming for healthcare management during a pandemic.* Invited talk, Imperial College Centre for Process Systems Engineering (CPSE) Annual Industrial Consortium Meeting, December 2020.
9. S. Moret and G. Limpens. *EnergyScope: a novel open-source model for regional energy systems.* Presentation, Energy Modelling Platform for Europe (EMP-E 2020), October 2020.
10. S. Moret. *Whole-energy systems modelling and planning under uncertainty.* Invited talk, Center for Energy, Austrian Institute of Technology, July 2020.
11. S. Moret and M. Borasio. *Italy EnergyScope: un Nuovo Modello Energetico per l'Italia e la sua Applicazione per la Decarbonizzazione al 2050.* Invited keynote talk, 37th AICARR National Congress, Italy, July 2020.
12. S. Moret and G. Limpens. *EnergyScope: a novel open-source model for regional energy systems.* Presentation, 2nd Online Lightning Talk Mini-workshop, Open Energy Modelling Initiative, April 2020.
13. S. Moret. *Long-term energy planning under uncertainty.* Invited talk, Energy Futures lab, Imperial College London, UK, December 2018. Link to associated blog post:
14. S. Moret and F. Maréchal. *Energyscope: modeling a national energy system to support decision-making.* Invited talk, International Conference on the Management of Energy, Climate and Air for a Sustainable Society, Cuba, July 2018.
15. S. Moret. *University and Sustainability: il ruolo dell'università nella transizione energetica.* Invited talk, JADE Italia meeting, Italy, May 2018.
16. S. Moret. *Uncertainty: Sensitivity analysis and robust optimization.* Invited talk, Modeling and optimization of ship energy systems workshop, Switzerland, October 2017.
17. S. Moret, V. Codina Gironès, M. Bierlaire and F. Maréchal. *The impact of uncertainty in national energy planning.* Poster presentation, Energy Systems Conference, UK, June 2016.
18. S. Moret, M. Bierlaire and F. Maréchal. *Uncertainty classification for strategic energy planning.* Poster presentation, SIAM Conference on Uncertainty Quantification, Switzerland, April 2016.
19. S. Moret, M. Bierlaire and F. Maréchal. *Robust optimization for strategic energy planning.* Conference presentation, 1st European Conference on Stochastic Programming and Energy Applications, France, September 2014.
20. S. Wiemer and S. Moret. *Geothermal reservoir processes: towards the implementation of research into the creation and sustainable use of enhanced geothermal systems (GEOTHERM-2).* Invited talk, Competence Center Environment and Sustainability conference, Switzerland, February 2014.
21. S. Moret and A. Lorenzoni. *Energia elettrica, vettore efficiente negli usi finali.* Invited talk, University of Padova, December 2013.

Current projects

energyscope: contributed to the development of the online platform `energyscope.ch`. Development, full documentation and maintenance of the open-source energy modeling framework: see it on `github` . The framework has found application in 10+ projects at urban, regional and national levels, and it is used for teaching at EPFL.

askPinocchio: machine learning tool for automatic online fake news detection (`askpinocchio.com`)

Personal skills

Languages

Italian: Mothertongue

English: Fluent *TOEFL iBT 106/120, year 2010*

French: Fluent

Spanish: Fluent

Mandarin Chinese: Intermediate *HSK Basic level A 211/300, year 2008*

German: Intermediate

Other skills

IT: scripting (Matlab, python, Lua, VBA), mathematical programming (AMPL, GLPK), LaTeX, web development, git, MacOS, Linux

Technical: optimization, energy modeling, data science, machine learning, deep learning, research, environmental impact assessment (LCA)

Organizational: solid experience in project management, problem solving

Relational: teaching (watch), presentations and public speaking, communication (watch)

Licences & Certifications

Italian National Scientific Qualification (Associate Professor level): Abilitazione Scientifica Nazionale, II Fascia, Settori 09/C1 e 09/C2, 2021-2030.

Fundamentals of Reinforcement Learning: Coursera (Certificate ID: JEPDFY29UH3E, 2021)

Deep Learning Specialization: Coursera (Certificate ID: R2PVQTB637HL, 2021)

↪ **Sequence Models**: Coursera (Certificate ID: E7ZM23QVW3BY, 2021)

↪ **Convolutional Neural Networks**: Coursera (Certificate ID: SB5FHD8JW29B, 2020)

↪ **Structuring Machine Learning Projects**: Coursera (Certificate ID: K4DN9N37HX6L, 2020)

↪ **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**: Coursera (Certificate ID: WNZXVNKERR6S, 2020)

↪ **Neural Networks and Deep Learning**: Coursera (Certificate ID: LMWBURY2ZMEE, 2020)

Python for Data Science and AI: Coursera (Certificate ID: LJPK2ZEL29KL, 2020)

Discrete Optimization: Coursera (Certificate ID: WX4RQ9JEMSAA, 2020)

Machine Learning: Coursera (Certificate ID: 8J67X3U8PRKF, 2019)

Licensed Industrial Engineer: Italian Order of Engineers professional examination (2013)

Other interests

Music: guitar player

Traveling & photography

Sports: running, climbing, mountaineering, skiing

Writing, literature & philosophy

References

Available upon request from ETH Zurich, Imperial College London, EPFL, University of Padova, University of California Davis, FIAMM Spa, ACC Compressors Spa

Last updated: January 6, 2023