Simone Vincenzi, Ph.D.

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Summary

- Fifteen+ years of experience working in Machine Learning, Artificial Intelligence, and Data Science as manager (3+ years), technical leader, academic researcher, and individual contributor
- Developed and put in production models that delivered insights and predictions across entertainment, telecommunications, biology, and physics
- Business-owner mindset, with a keen interest in product, operations, strategy, and getting things done
- Strong academic profile: 50+ peer-reviewed papers (>1400 citations, h-index: 23), actively publishing (https://scholar.google.com/citations?user=kiV7yTQAAAAJ&hl=en)

Skills

- R, Python
- Modern regression (random-effects, generalized additive models, tree-based regression, ensemble methods), classification (logistic, tree-based), and clustering methods
- Modern time-series modeling for forecasting
- A/B testing and quasi-experiments
- Recruitment, team building, and team leadership for high performance

Experience

Ericsson – Santa Clara, CA 2019-

Senior Manager (10 reports) and Principal/Staff Data Scientist

Machine Learning and Artificial Intelligence at Ericsson Global Artificial Intelligence Accelerator

- ML and AI for:
  - Causal models and quasi-experiments for mobile communication networks (see https://www.ericsson.com/en/blog/2020/5/what-causes-increased-dropped-calls-during-summer)
  - Time-series prediction for target setting, predictive maintenance, and anomaly detection
  - Causal models of customer acquisition and retention rates for Connected Car (https://www.att.com/plans/connected-car.html)
- Lead AI scientist at Ericsson Collaboration Center D15 (https://www.ericsson.com/en/about-us/experience-centers/d-fifteen/ericsson-d-15-ai-team)

Netflix – Los Gatos and Los Angeles, CA 2017-2018

Senior Machine Learning Scientist, Content Data Science Team

Machine Learning for predictions of viewership and economic efficiency of Netflix Original and Licensed content

- Daily predictions of viewership of Netflix Original shows and movies for each country and globally using non-linear random-effects regression models – for details on the approach I used, see http://simonevincenzi.com/Publications/biology_and_movies_v2.pdf
- Predictions of economic efficiency of Netflix Original and Licensed shows (8-fold increase in accuracy for the test set with respect to previous models)

University of California, Santa Cruz – Santa Cruz, CA 2011-2017

Senior Research Scientist, Group Leader, and Marie Curie Principal Investigator

Machine Learning and statistical modeling applied to biological, ecological, and genetics research problems

- Built and managed a team of five scientists and technicians for a three-year research project on the development of novel interdisciplinary methods for predicting the demographic and evolutionary consequences of climate change on natural populations
- Presented invited talks at top US and international universities: UC Berkeley, UC Santa Cruz, Stanford, Universidad de Buenos Aires, Pontificia Universidad Católica de Chile, and many others

Education

- **Ph.D.** in Mathematical Biology (University of Parma, Parma, Italy)
- **Master's Degree** in Environmental Sciences (University of Parma, Parma, Italy)