

Simone Vincenzi, Ph.D.

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Santa Cruz, CA

Summary

- Fifteen years of experience working in ML, AI, and Data Science as group leader, manager (3+ years), technical lead, and individual contributor
- Creative leader, self-starter, and collaborative team player driven by a deep curiosity for business and technical problems, people management, and team building
- Developed and put in production machine learning solutions that delivered insights and predictions across entertainment, telecommunication, 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 (> 1150 citations, h-index: 21), actively publishing

Skills

- R, Python
- Modern regression (random-effects, generalized additive models, tree-based regression, ensemble methods), classification (logistic, tree-based), and clustering (k-means, hierarchical clustering) methods
- Modern time-series modeling (Prophet, LSTM) for forecasting
- Uni- and multivariate anomaly detection
- A/B testing and quasi-experiments
- Interdisciplinarity: developed machine learning products in entertainment and telecommunication, and published peer-reviewed papers in physics, genetics, population ecology, and evolutionary biology
- Recruitment, team building, and team leadership for high performance

Experience

Ericsson – Santa Clara, CA

2019-

Senior Manager (10 reports) and Principal Data Scientist

Machine Learning and Artificial Intelligence at Ericsson Global Artificial Intelligence Accelerator

- ML and AI for:
 - Causal models, predictions, and quasi-experiments for telecommunications
 - Time-series prediction for target setting, predictive maintenance, and anomaly detection
 - Increasing customer acquisition and retention rates
- Lead for Ericsson Silicon Valley engagements and collaborations with industry and academia, North America recruitment, and Innovation Products of Ericsson Silicon Valley (<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 European Commission’s Marie Curie Principal Investigator

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

- Machine Learning and statistical models of organism growth, pedigree reconstruction, and adaptive responses to extreme weather
- 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 Theoretical Ecology (University of Parma, Parma, Italy)
- **Master’s Degree** in Environmental Sciences (University of Parma, Parma, Italy)