Simone Vincenzi, Ph.D.

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Summary

- Fifteen years of experience working in ML, AI, and Data Science as leader and 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 deliver data-driven analytic and predictive insights across entertainment, telecommunication, biology, and physics
- Frequently presented model insights and products to executives, customers, and decisions makers
- Business-owner mindset, with a keen interest in product, operations, strategy, and getting things done
- Fifty+ papers published in top peer-reviewed journals (> 1000 citations, h-index: 19)

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, DBSCAN) methods
- Modern time-series modeling (Prophet, LSTM) for forecasting
- Multivariate anomaly detection (PCA- and auto encoders-based)
- A/B testing and quasi-experiments
- Interdisciplinarity: developed machine learning products in entertainment and telecommunication, and published peer-reviewed papers in physics, genetics, and evolutionary biology
- Recruitment, team building, and team leading for high performance

Experience

Ericsson, Santa Clara, CA   2019-
Manager, Machine Learning and Artificial Intelligence (10 reports)

Machine Learning and Artificial Intelligence for network (5G, LTE) optimization and Internet of Things at Ericsson Global Artificial Intelligence Accelerator

- ML and AI for:
  - Causal models, predictions, and quasi-experiments for cellular network optimization
  - Classification of alarms and recommendations for their resolution in zero-touch telecommunication networks
- 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 (first model of this kind), 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 applied research problems

- Machine Learning for random-effects models of growth, pedigree reconstruction, and identification of adaptive responses of animal species to extreme weather
- Built and managed a team for a 3-year research, fully supported by European Union's grants, 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 Computational Ecology (University of Parma, Parma, Italy)
- **Master's Degree** in Environmental Sciences (University of Parma, Parma, Italy)