

# Simone Vincenzi, Ph.D.

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Santa Cruz, CA

## Summary

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- Fifteen years of experience working in Machine Learning, Artificial Intelligence, and Data Science as manager (3+ years), technical leader, researcher, and individual contributor
- Developed and put in production models and solutions 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 (~ 1300 citations, h-index: 22), actively publishing

## Skills

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- 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

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**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 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](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*

- 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**

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