

NICCOLO' DALMASSO

PHD STUDENT IN STATISTICS & DATA SCIENCE @ CARNEGIE MELLON UNIVERSITY

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EMPLOYMENT

AI Research Intern

IBM Research

May 2018 – August 2018

Yorktown Heights, NY

Carried out independent research and built a PyTorch framework for automatic deep neural network pruning for concurrent optimization of multiple non-standard non-differentiable objectives.

Game Analyst - Data Science Team

Zynga (NaturalMotion LTD)

October 2014 - June 2016

London, UK

End-to-end data analytics for live and in development mobile gaming titles, with main focus Dawn of Titans - responsibilities included:

Data Collection Real-time in-game data collection for DB ingest;

Data Processing Automatic data aggregation pipelines;

Modelling Statistical analysis on live player base, including behaviour-based clustering, players retention and cheaters detection;

Data Visualization Live dashboards and interactive tools to visualize metrics and inform designers and product managers;

Game Metrics Reporting Automatic daily email to entire game team.

SELECTED PUBLICATIONS

Journal Articles

- Feeney, Stephen M., Daniel J. Mortlock, and **Dalmasso, Niccolò**. "Clarifying the Hubble constant tension with a Bayesian hierarchical model of the local distance ladder". In: Monthly Notice of the Royal Statistical Society 476, pp. 3861–3882.

Conference Papers

- Dalmasso, Niccolò**, Benjamin LeRoy, Robin Dunn, and Chad Schafer (2019). "A Flexible Pipeline for Data-Driven Prediction of Tropical Cyclone Paths". In: ICML 2019 1st Workshop on "Climate Change, how can AI help?", arXiv: 1906.08832.
- Ferrando, Cecilia, **Dalmasso, Niccolò**, Jiawei Mai, and Daniel Cardoso Llach (2019). "Graph Kernels for Spatial Analysis - Using Machine Learning to Identify Typological Traits across Multiple Buildings". In: CAAD Futures 2019.
- Hechtlinger, Yotam, **Dalmasso, Niccolò**, Alessandro Rinaldo, and Larry Wasserman (2018). "Lebesgue Regression". In: NeurIPS 2018 CRACT Workshop.

Preprints

- Dalmasso, Niccolò**, Taylor Pospisil, Ann B. Lee, Rafael Izbicki, and Chieh-An Lin. "Validation of Approximate Likelihood Models for Computationally Intensive Simulations". In: Submitted at NeurIPS 2019, arXiv preprint: 1905.11505.

EDUCATION

Ph.D. in Statistics & Data Science

Carnegie Mellon University

Aug 2016 – May 2021 (Exp.)

GPA: 4.1/4.0, Advisor: Ann B. Lee

M.Sc. in Statistics

Imperial College London

Sept 2013 – Sept 2014

Final Grade: *Distinction*

B.Sc. in Mathematics

University of Study of Turin, Italy

Sept 2010 – July 2013

GPA: 3.8/4.0

CODING SKILLS

Proficient

- Python (numpy, pandas, sklearn, matplotlib, pyTorch)
- R (tidyverse, RStan)
- Owner/Contributor of 5 Python and 2 R publicly available packages

Everyday Workflow

Bash, Git, \LaTeX

Work Experience

- Database: MySQL, Vertica SQL
- Visualization: Javascript, HTML, CSS

Familiarity

C++, Matlab, Julia, Maple

AWARDS

2017 Fall Citadel Data Open at Carnegie Mellon Team winner. (\$20,000 prize)

2012 "Alfaclub Update" Mathematics Team Competition - 1st prize (\$6,500 prize)

2010-2013 Academic Scholarship, Scuola of Studi Superiori, University of Turin

2010-2013 Academic Department Excellence, Mathematics Department

HOBBIES

Golf (5 hcp.)

Soccer

Poker