NICCOLO' DALMASSO

PHD CANDIDATE IN STATISTICS & DATA SCIENCE @ CARNEGIE MELLON UNIVERSITY

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EMPLOYMENT

AI & Machine Learning Research Associate J.P. Morgan AI Research

June 2020 - August 2020

♀ Remote Working

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.

Al 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)

Margarith October 2014 - June 2016

Q London, UK

End-to-end data analytics for live and in development mobile gaming titles, with main focus Dawn of Titans ($\sim 10^4$ player producing $\sim 10^7$ tracking data on a daily basis).

SELECTED PUBLICATIONS

Journals

- Dalmasso, Niccolò, Taylor Pospisil, Ann B. Lee, Rafael Izbicki, Peter E. Freeman, and Alex I. Malz (2020). "Conditional Density Estimation Tools in Python and R With Applications To Photometric Redshifts and Likelihood-Free Cosmological Inference". In: Astronomy and Computing.
- Feeney, Stephen M., Daniel J. Mortlock, and Dalmasso, Niccolò (2018). "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.

Peer-Reviewed Conferences and Workshops

- Dalmasso, Niccolò, Rafael Izbicki, and Ann B. Lee (2020). "Confidence Sets and Hypothesis Testing in a Likelihood-Free Inference Setting". In: International Conference in Machine Learning (ICML).
- Dalmasso, Niccolò, Ann B. Lee, Rafael Izbicki, Taylor Pospisil, Ilmun Kim, and Chieh-An Lin (2020). "Validation of Approximate Likelihood Models for Computationally Intensive Simulations". In: International Conference on Artificial Intelligence and Statistics (AISTATS).
- Dalmasso, Niccolò, Robin Mejia, Jordan Rodu, Megan Price, and Jared Murray (2019). "Feature Engineering for Entity Resolution with Arabic Names: Improving Estimates of Casualties in the Syrian Civil War". In: NeurIPS 2019 Workshop on AI for HADR (Spotlight Talk).
- Dalmasso*, Niccolò, Alex Reinhart*, and Shamindra Shrotriya* (2019). "Predictive Inference of a Wildfire Risk Pipeline in the United States". In: NeurIPS 2019 Tackling Climate Change with Machine Learning Workshop (Spotlight Talk).

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, scipy, jupyter, pyTorch, matplotlib
- R: dplyr, tidyverse, RStan, ggplot
- Author/Contributor of 6 Python and 6 R publicly available packages

Everyday Workflow Bash, Git, LATEX

Work Experience

- Databases: MySQL, Vertica SQL, PostgreSQL, PostGIS
- Visualization: Django + Javascript, Rshiny

Familiarity C++, Matlab, Julia, HTML

AWARDS

2019 Statistics & Data Science Teaching Assistant of the Year **2017** Fall Citadel Data Open at Carnegie Mellon Team winner. (\$20,000 prize) **2012** "Alfaclass Update" Mathematics Team Competition - 1^{st} prize (\$6,500 prize) 2010-2013 Academic Scholarship, Scuola of Studi Superiori, University of Turin 2010-2013 Department Excellence, Mathematics, University of Turin

HOBBIES

Golf (5 hcp.)

Soccer

Poker