Giuseppe **Attanasio**

Ph.D. Student · Politecnico di Torino

Corso Duca degli Abruzzi, 24, 10129, Torino, Italy

giuseppe.attanasio@polito.it

gattanasio.cc | g8a9 | giuseppe-attanasio

"Computers aren't the thing. They are the thing that gets us to the thing." - Halt And Catch Fire

Bio

I'm a second-year Ph.D. student at the Department of Control and Computer Engineering of Polytechnic of Turin. I have a Computer Science background. During my first year, I worked on modeling and forecasting financial time series but I'm slowly drifting to NLP with a particular focus on inspection and regularization of language models.

I am 25 and I spent the last 7 years in Turin, where I currently live. I love reading (Sci-Fi, please) and playing basketball, while circumstances led me to discover that I'm not so bad at cooking. I also like DIY and automating boring stuff.

Besides that, I am a passionate learner. I spend countless hours on lectures and tutorials about languages, frameworks, and technologies which I deem interesting.

Research interests. Sequence modeling and forecasting algorithms, inspection and understanding of deep NLP models, applied ML for quantitative trading

Education

Politecnico di Torino *Torino, Italy*

Ph.D. at Department of Control and Computer Engineering *2018 - ongoing*

- Advisor: Elena Baralis

Politecnico di Torino *Torino, Italy*

MD in Computer Engineering, Data Science track *2016 - 2018*

- Grade: 110/110 *cum Laude*

Politecnico di Torino *Torino, Italy*

BD in Computer Engineering *2013 - 2016*

- Grade: 110/110

Publications

G. Attanasio, E. Pastor, "PoliTeam @ AMI: Improving Sentence Embedding Similarity with Misogyny Lexicons for Automatic Misogyny Identification," Preprint, Nov. 2020

G. Attanasio, L. Cagliero, and E. Baralis, "Leveraging the explainability of associative classifiers to support quantitative stock trading," in Proceedings of the Sixth International Workshop on Data Science for Macro-Modeling, New York, NY, USA, Jun. 2020, pp. 1–6, doi: 10.1145/3401832.3402679.

G. Attanasio et al., "DSLE: A Smart Platform for Designing Data Science Competitions," in 2020 IEEE 44th Annual Computers, Software, and Applications Conference (COMPSAC), Jul. 2020, pp. 133–142, doi: 10.1109/COMPSAC48688.2020.00026.

L. Cagliero, P. Garza, **G. Attanasio**, and E. Baralis, "Training ensembles of faceted classification models for quantitative stock trading," Computing, vol. 102, no. 5, pp. 1213–1225, May 2020, doi: 10.1007/s00607-019-00776-7.

G. Attanasio, L. Cagliero, P. Garza, and E. Baralis, "Combining News Sentiment and Technical Analysis to Predict Stock Trend Reversal," in 2019 International Conference on Data Mining Workshops (ICDMW), Nov. 2019, pp. 514–521, doi: 10.1109/ICDMW.2019.00079.

G. Attanasio, L. Cagliero, P. Garza, and E. Baralis, "Quantitative cryptocurrency trading: exploring the use of machine learning techniques," in Proceedings of the 5th Workshop on Data Science for Macro-

modeling with Financial and Economic Datasets, New York, NY, USA, Jun. 2019, pp. 1–6, doi: 10.1145/3336499.3338003.

(Before Ph.D.)

G. Attanasio, A. Cannavò, F. Cibrario, F. Lamberti, P. Montuschi, and G. Paravati, "HOT: Hold your own tools for AR-based constructive art," in 2017 IEEE Symposium on 3D User Interfaces (3DUI), Mar. 2017, pp. 256–257, doi: 10.1109/3DUI.2017.7893369.

Academic duties

Teaching assistant

2020 **Data science lab: processes and methods**, MD in Data Science and Engineering
2019 *** Data science lab: processes and methods**, MD in Data Science and Engineering
2019 **Business Intelligence for Big Data**, MD in Industrial engineering and management
2018 **Databases**, BD in Computer Engineering

* The course rolled out the very first time in 2019, on the very first instance of the MD program in Data Science and Engineering @ PoliTO. The course was - and is still today - the first introduction to the Python programming language and the basics of Data Science/ML libraries for MD students. We worked hard to provide students with comprehensive exercises and solutions (10 laboratories, for a total of 60+ pages of lab exercises and 250+ pages of solutions).

Peer reviewer

I reviewed at least one work submitted to the following venues:

- SAC 2021: the 36th ACM/SIGAPP Symposium On Applied Computing
- EDBT 2020: 23rd International Conference on Extending Database Technology
- IEEE ICDE 2020: 36th IEEE International Conference on Data Engineering
- ACM KDD 2020 26TH SIGKDD Conference On Knowledge Discovery And Data Mining
- DaWaK 2019: the 21st International Conference on Big Data Analytics and Knowledge Discovery

I reviewed at least one work submitted to the following journals:

- Future Generation Computer Systems, Elsevier

Research projects

I took part in a joint research project between my research group and the company KMaster (Telepass SpA). Along with my advisor and people from my research group, I designed and implemented an end-to-end machine learning and clustering-based pipeline to characterize driving behaviors and fleet management. The project is still ongoing.

Work Experience

Kupata S.r.l. *Torino, Italy*

Founder, Shareholder *Nov. 2016 - ongoing*

- Kupata's main goal is to streamline the Lost and Found process. It brings innovation with a solution that helps people in returning items in a simple, secure, and undisclosed way. The business involves a physical object, the Kupa, and a social community that encourages members to act in the right way.

Consoft Sistemi S.p.A. *Torino, Italy*

Curricular intern *Mar. 2016 - Jul. 2016*

- I participated to the bootstrap phase of the Consoft's proprietary Knowledge Base platform. We built our solution upon Orange HRM, an open source PHP-based platform.

Skills

I am familiar with *italicized* entries.

Programming	C, C++, Python, Java, *C#, JavaScript, PHP, Matlab, SQL*
Framework	*Hadoop, Spark*
Scripting	Bash, Awk
DevOps	AWS, *Docker*
Front-end	Hugo, *React, Dash*
Graphics	Inkscape, GIMP, *Blender, Unity 3D*
Languages	Italian, English, *Spanish, French*