Matteo Almanza

Curriculum Vitae

Rome, Italy

Education

Nov 2018–Present	**PhD in Computer Science** *Sapienza University of Rome*, Rome (Italy). Advisor: Alessandro Panconesi
Sep 2016–Oct 2018	**MSc in Computer Science** *Sapienza University of Rome*, Rome (Italy). Final grade: 110/110 cum laude, thesis title: *New algorithms for LDA topic reconstruction*
Sep 2013–Oct 2016	**BSc in Computer Science (*Laurea triennale in Informatica*)** *Sapienza University of Rome*, Rome (Italy). Final grade: 110/110 cum laude, thesis title: *La complessità computazionale del gioco Trainyard* (*The computational complexity of Trainyard*)
Sep 2008–Jun 2013	**High School Diploma (*Liceo scientifico indirizzo tecnologico*)** *Liceo scientifico A. Labriola*, Rome (Italy). Final grade: 100/100

Work Experience

May 2019–Aug 2019	**Software Engineer Intern** *Google*, Zurich (Switzerland). Label propagation for large bipartite graphs (C++)
May 2018–Aug 2018	**Software Engineer Intern** *Twitter*, San Francisco (United States). Development of a system for real-time approximated time series at scale (Scala, Finatra, Python)
Jun 2017–Sep 2017	**Software Engineer Intern** *Twitter*, San Francisco (United States). Design and development of a real-time dynamic clustering system at scale (Scala, Finatra, Scalding)
2017	**Research fellow** *Sapienza University of Rome*, Rome (Italy). Research fellowship in Computational Complexity of Games
Jan 2015–Jul 2015	**Developer** *Soril Italia s.r.l*, Rome (Italy). Web development (PHP, MySql, JS) and scripts for process automation (Python)
Jul 2012	**Intern** *IBM*, Hursley (United Kingdom). Internship sponsored by Banca d'Italia, development of an internal tool (Php, MySql, Js)

Publications

A Reduction for Efficient LDA Topic Reconstruction
Matteo Almanza, Flavio Chierichetti, Alessandro Panconesi, Andrea Vattani.
Proceedings of NeurIPS 2018

Tracks from Hell - when finding a proof may be easier than checking it
Matteo Almanza, Stefano Leucci, Alessandro Panconesi.
Proc. of the 9th International Conference on Fun with Algorithms (FUN 2018)

Trainyard is NP-Hard
Matteo Almanza, Stefano Leucci, Alessandro Panconesi.
Theoretical Computer Science (special issue for FUN 2016 best papers)
Vol. 748, Elsevier, 66-76, 2018.

Workshops

Oct 2019   **CaStleD19 - Computation and Statistics in Data science**
Bertinoro, Italy.
Talk title: A Model for Recurring Cascades in Social Networks

Awards

Aug 2019   DEF CON 27 CTF Finals (Las Vegas, USA), 5th place with *mhackeroni*
Aug 2018   DEF CON 26 CTF Finals (Las Vegas, USA), 7th place with *mhackeroni*
Apr 2017   Google #HashCode 2017 finalist, member of *The Bit-les* team
Oct 2016   Honours programme, BSc in Computer Science
Jul 2013   Bronze medalist, International Olympiad in Informatics (IOI), Brisbane
Oct 2012   Gold medalist, Italian Olympiad in Informatics (OII), Sirmione
Sep 2012   Bronze medalist, International Olympiad in Informatics (IOI), Sirmione
Sep 2011   Gold medalist, Italian Olympiad in Informatics (OII), Sirmione

Hobbies & Interests

Playing CTFs (hacking competitions) with *TheRomanXpl0it* and *mhackeroni*