

Alessandro Cosentino

data engineer

contacts

cosenal@gmail.com
https://cosenal.github.io

nationality

Italian
(+ Canadian PGWP)

languages

English
Italian

education

- 2010–2015 **Ph.D.** in Computer Science University of Waterloo, Canada
- *Fellow of the Institute for Quantum Computing*
- *Recipient of a David R. Cheriton Graduate Scholarship*
- 2006–2009 **M.Math** in Computer Science University of Pisa, Italy
Final score: 110/110 *cum laude*
- 2003–2006 **B.Math** in Computer Science University of Pisa
Final score: 110/110 *cum laude*

experience

- Jan '16–now **Data Engineer** Bending Spoons, Italy
Developing an analytical tool for estimating financial data of the mobile apps market through fetching and processing of terabytes of App Store data.
- 2010–2013 **Teaching Assistant** University of Waterloo
Courses: Theory of Quantum Information (graduate), Data Structures and Data Management, Algorithms, Introduction to Computer Science.
- Summer '12 **Google Summer of Code Student Developer** KDE, remote
Created the News app, a feed reader for the ownCloud platform.
- Winter '12 **UNIX Consultant** Math Faculty Computing Facility, UWaterloo
Assisted students, faculty and staff with UNIX related problems.

skills

Programming Python (3+ yr); *Familiar with:* PHP, JS; *Prior experience:* OCaml, Go, C++;
Data Engineering AirFlow, Spark, Redis, PostgreSQL, BigQuery, Re:dash;
Data Analysis MATLAB/Octave, R, pandas, scikit-learn, Excel;
Web Flask, HTML5, AngularJS framework, CSS;
Other Heroku toolbox, Git, Bash, RSS and Atom standards, \LaTeX .

publications

- Limitations on Separable Measurements by Convex Optimization
IEEE Transactions on Information Theory. 2015
- Small sets of locally indistinguishable orthogonal maximally entangled states
Quantum Information & Computation. 2014
- Positive-partial-transpose-indistinguishable states via semidefinite programming
Phys. Rev. A. 2013

(This is a selected list of journal publications. For a complete list, see [Google Scholar](#)).