

Alessandro Cosentino

data engineer

contacts

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

nationality

Italian

languages

English
Italian

education

- 2010–2015 **Ph.D.** in Computer Science University of Waterloo
- *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
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
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
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.

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](#)).

skills

Programming *Main:* Python (3+ yr), MATLAB/Octave (3 yr); *Familiar with:* PHP, Javascript;
Prior experience: OCaml, Go, C++;

Data Engineering Celery, AirFlow, Apache Spark, Redis, PostgreSQL, Google BigQuery;

Data Analysis R, pandas, scikit-learn, MS Excel;

Web Flask, HTML5, AngularJS framework, CSS;

Other Heroku toolbox, Git, Bash, RSS and Atom standards, \LaTeX .