

# Alessandro Cosentino's Résumé

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## Education

### Ph.D. in Computer Science

*University of Waterloo — January '10 – present*

Expected graduation date: August '15

Fellow of the **Institute for Quantum Computing**

Recipient of a **David R. Cheriton Graduate Scholarship**, awarded annually to forty to seventy-five full-time University of Waterloo Computer Science graduate students on the basis of scholastic excellence and evidence of research potential.

### M.Math in Computer Science

*University of Pisa — February '09*

Final score: 110/110 *cum laude*

### B.Math in Computer Science

*University of Pisa — July '06*

Final score: 110/110 *cum laude*

## Selected Articles

- **Limitations on separable measurements by convex optimization, 2014**
- **Small sets of locally indistinguishable orthogonal maximally entangled states, 2014**
- **PPT-indistinguishable states via semidefinite programming, 2012**

Used *convex programming* to answer several fundamental open questions in the topic of *quantum state discrimination*.

(Complete list of publications available at <https://cosenal.github.io/papers/>)

## Work Experience

### Google Summer of Code student developer

*KDE — Summer '12*

Created the ownCloud News app, a feed reader for ownCloud. The app has been among the top 5 highest rated apps on the ownCloud App store for two years and it has served as a testbed for ownCloud core technologies, such as the app framework.

### Season of KDE student developer

*Summer '11*

Built a component for the porting of KDE feed reader Akregator to the storage service Akonadi.

### Teaching assistant

*University of Waterloo — 2010 – 2013*

Courses: Theory of Quantum Information (graduate), Data Structures and Data Management, Algorithms, Introduction to Computer Science.

## Other Experience

### Outreach Program for Women org coordinator and mentor

*GNOME Foundation — Summer '14*

Coordinated the first participation of ownCloud at OPW and mentored a successful ownCloud project.

### UNIX Consultant

*Math Faculty Computing Facility, University of Waterloo — Winter '12 and Fall '12*

Assisted students, faculty and staff with computer related problems.

### Google Code-in org administrator

*KDE — Winter '12*

## Exchange programs

### Research intern

*LIAFA, Université Paris Diderot — February '13 – April '13*

## Erasmus scholar

*Aarhus University — September '07 – March '08*

## Professional Service

Reviewer for the journals *APS Physical Review A*, *IEEE Transactions on Information Theory*, and for the conferences *QIP (2014)* and *ICALP (2015)*.

## Technical Skills

- Programming languages: Python, PHP, Javascript;
- Web technologies: HTML5, AngularJS framework, CSS;
- Research tools: LaTeX, MATLAB/Octave and framework CVX for convex programming;
- Other technologies: RSS and Atom standards, Git, SQL.

## Volunteer experience

- Global Representative of Italy at University of Waterloo;
- Captain of UWaterloo Computer Science grad students soccer intramural team for five terms.