NICOLÁS E. BORDENABE

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Experience

PhD student at Inria. France. October 2011 — September 2014

Worked under the supervision of Dr. Catuscia Palamidessi and Dr. Konstantinos Chatzikokolakis. Research was focused on a generalization of the notion of differential privacy, and the study of its applications in different domains, with particular interest in the case of location privacy. During this time, three papers on the topic were published in prestigious privacy and security conference

Teaching Assistant at École Polytechnique. France. October 2011 — September 2014

Course: Algorithms and Programming. Tasks included helping students with Java projects about different algorithms and data structures.

Python and Plone developer at Menttes S.R.L. Argentina. June 2010 — August 2011

Designed and implemented front end (HTML/JavaScript) and back end (Python) of several web systems and intranets using the Plone Content Management System.

Teaching Assistant at Universidad Nacional de Córdoba. Argentina. March 2007 — March 2010

Courses: Algorithms and Data Structures, Operating Systems, Logic. Tasks included grading student projects, including complex data structures and linux kernel modules.

Education

Phd in Computer Science.

École Polytechnique, France. **September 2014.**

Thesis: *Measuring Privacy with Distinguishability Metrics: Definitions, Mechanisms and Application to Location Privacy*. Latest version available at www.lix.polytechnique.fr/~nbordenabe/files/thesis.pdf
Mention: Très Honorable.

Master in Computer Science.

FaMAF, Universidad Nacional de Córdoba, Argentina**. March 2011.**

GPA: 9.89 / 10.

- **ACM-ICPC 2010 World Finals**: 36th position (shared) over 103 universities worldwide in the 2010 ICPC World Finals, held in Harbin, China (http://icpc.baylor.edu/community/results-2010).

Bachelor in Computer Science.

FaMAF, Universidad Nacional de Córdoba, Argentina**. December 2008.**

GPA: 9.72 / 10. Ranked 1st best GPA in FaMAF, and 3rd in Universidad Nacional de Córdoba.

- **Intel Grant for Academic Excellence 2008**: First place between all applicants from Universidad Nacional de Córdoba.
- **Santander Rio Academic Merit Award, 2008**: Part of the top 400 GPAs between all applicants from selected universities nationwide.

Skills

Programming Languages:

- Strong knowledge of **C** and **C++**.
- Experience with **Python**, **HTML** and **JavaScript**.
- Some experience with **Java** (for college projects).

Platforms and Tools:

- Experience with the **Django** Web framework and the **Plone** Content Management System.
- Experience developing in **Mac OS X** and **GNU/Linux**.

Languages:

Spanish (Native)**, English** (Fluent, written and spoken)**, French** (Basic, spoken)

Publications

Optimal Geo-Indistinguishable Mechanisms for Location Privacy.
N. E. Bordenabe, K. Chatzikokolakis, C. Palamidessi.
21th ACM SIGSAC Conference on Computer and Communications Security (CCS 2014)
(to appear)

Geo-indistinguishability: Differential Privacy for Location Based Systems.
M. E. Andrés, **N. E. Bordenabe**, K. Chatzikokolakis, C. Palamidessi.
Proceedings of the 20th ACM Conference on Computer and Communications Security (CCS 2013)

Broadening the scope of Differential Privacy using metrics.
K. Chatzikokolakis, M. E. Andrés, **N. E. Bordenabe**, C. Palamidessi.
Proceedings of the 13th International Symposium on Privacy Enhancing Technologies (PETS 2013)

Additional Information

Programming Contests:

- **ACM-ICPC**: Regionals contest from 2006 to 2009. Advanced to the 2010 World Finals.
- **Google Codejam**: Round 2 in 2014, 2013, 2012, 2009 and 2008. Round 1 in 2011.
- **TopCoder Open**: Round 2 in 2014, 2012, 2011 and 2007. Round 1 in 2013.
- **Facebook Hackercup**: Round 2 in 2012 and 2014. Round 1 in 2013.

Presentations in Conferences and Workshops:

- **ACM CCS 2013**. November 2013, Berlin, Germany.
- **1st MEALS Workshop**. March 2013, Rome, Italy.
- **4th Atelier sur la Protection de la Vie Privée (APVP)**. June 2013, Les Loges en Josas, France.
- **5th Atelier sur la Protection de la Vie Privée (APVP)**. June 2014, Cabourg, France.

Courses Attended:

- **Advances Statistics and Data Mining Summer School (ASDM).**
  June 2014, Universidad Politécnica de Madrid, Spain.
  Courses attended: *Bayesian Networks, Supervised Pattern Recognition, Statistical Inference, Unsupervised Patter Recognition* (15 hours each).
- **International School on the Foundations of Security Analysis and Design (FOSAD)**.
  September 2012, University Residential Centre of Bertinoro, Italy.
- **Summer School RIO 2009.**
  February 2009, Universidad Nacional de Río Cuarto, Argentina.
  Courses attended: *Model and Verification of Concurrent Probabilistic Systems, Contract-Based Development in* EIFFEL*, Stringology* (10 hours each).