Oana-Maria CAMBURU

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Education

2014 - present **PhD in Computer Science** at **Oxford University,** United Kingdom
Specialization: Deep Learning, Natural Language Processing. Supervisors: Nando de Freitas, Phil Blunsom.

2013 - 2014 **MSc by research** at **École Normale Supérieure de Cachan,** France (*double cursus* with the École Polytechnique)
Specialization: Machine Learning. *Coursework includes: Reinforcement Learning, Probabilistic Graphical Models, Learning for Text and Graph Data, Machine Learning for Computer Vision, Convex Optimization, Discrete Optimization.*

2010 - 2014 **Engineering and MSc degrees** at **École Polytechnique,** Paris, France
Specialization: Applied Mathematics. *Coursework includes: Algorithms and Programming, Constraint Programming, Introduction to Machine Learning, Data Mining, Time Series Analysis, Operations Research, Statistics.*

Research and Work Experience

Apr.-Aug. 2014 **Software Engineer Intern** at **Google**, London, United Kingdom
Prototype an algorithm of text classification for article recommendation.

Nov.-Jan. 2014 **Experimental Project** in **Reinforcement Learning** at **École Normale Supérieure de Cachan**, France
Implemented versions of UCB and Thompson Sampling for personalized recommendation.

Nov.-Jan. 2014 **Experimental Project** in **Natural Language Processing** at **École Normale Supérieure de Cachan**, France
Word Alignment in Statistical Translation. Studied and implemented IBM1, IBM2 and HMM approach for automated translation.

Apr.-Jul. 2013 **Research Internship** in the **Operations Research Center**, **Massachusetts Institute of Technology,** Boston, United States
Predictive policing, project for the Police of Boston. Implemented machine learning, time series analysis and optimization techniques to predict the amount of crimes in Boston.

Jul.-Aug. 2012 **Internship** in the **Product Development Strategy Department** at **Amadeus,** Sophia Antipolis, France
Participated in the project of Global Footprint of Amadeus. Consolidated a database and calculated the prediction for the company's evolution by site.

Aug. 2010 **Research Internship** in Number Theory at **Max-Planck-Institute für Matematik**, Bonn, Germany
Discovered results on the coefficients of cyclotomic polynomials and inferred properties for numerical semi-groups. Results were mentioned in IMNS, Cortona 2014.

Skills and Languages

Programming Languages **JAVA, MATLAB, Python, R**
Romanian (Native); **French** (Fluent); **English** (Fluent); **Spanish** (Intermediate); **Portuguese** (Basics)

Awards and Honors

2010, 2009 **Silver Medals** at the South Eastern European Mathematical Olympiads for University Students
2009 **Silver Medal** at the International Internet Mathematical Olympiad for Students, Israel
2009 **Honorable Mention** at the International Mathematical Competition for University Students, Hungary
2008 **Bronze Medal** at the International Zhautykov Olympiad of Mathematics, Kazakhstan
2008 Member of the **Romanian National Extended Team for the International Mathematical Olympiad**
2008 **Diploma of excellence** awarded by the Romanian Government for the results in mathematical competitions
2008, 2006, 2004 **Bronze Medals** at the National Olympiad of Mathematics, Romania
2007 **Henry Poincare Prize** from the École Polytechnique, France
2007 **First Prize** at the International Mathematical Contest Archimedes, Romania
2007, 2005 **Silver Medals** at the National Olympiad of Mathematics, Romania

Interests and Associations

Interests Debating, Fencing, Dancing, Skating, Theatre
2014-present Secretary of the Oxford Women in Computer Science society, organizing committee meetings, Oxford University
2012-2013 Responsible with the theatre section in the students' association for cultural events, École Polytechnique