

Carlos Riquelme

+1 650 289 8510 | rikel@stanford.edu

RESEARCH INTERESTS

Applications: Reinforcement & Statistical Machine Learning, Active Learning, Artificial Intelligence.

Theory: Probability and Statistics, Bayesian Optimization, Algorithm Design, Graph Theory.

EXPERIENCE

Facebook Research, Menlo Park, CA. *June 2016 – September 2016*

Research Intern at the Experimental Design and Causal Inference team.

Reinforcement Learning, Gaussian Processes, Active Learning, and Exploration.

Twitter, San Francisco, CA. *June 2015 – September 2015*

Data Scientist Intern. Machine Learning for sequential decision making. Designed, implemented and tested real-time bidding algorithms based on Bayesian approaches to learning.

Quora, Mountain View, CA. *June 2014 – September 2014*

Data Scientist Intern. Machine Learning for Search and Feed. Designed, implemented and tested new algorithms that, through high-dimensional statistical methods, improved search performance. In addition, developed clustering techniques and hidden content discovery processes.

Adobe Systems, Inc. Advanced Technology Labs, San Jose, CA. *June 2013 – September 2013*

Data Scientist Intern. Knowledge discovery project for marketing analysis from large datasets via Bayesian Networks. Fast structure and parameter learning from incomplete data and hidden variables detection. Also, developed a data-visualization prototype with d3 for real-time probabilistic inference.

In the process of filing a patent on the project.

EDUCATION

Stanford University *September 2012 – Present*

Ph.D. in Computational and Mathematical Engineering.

IDEAL Group (Information, Decisions and Algorithms) — **SOAL** Group (Social Algorithms Lab)

Faculty: Ramesh Johari (Advisor), Ben Van Roy, Ashish Goel, Amin Saberi.

Teaching Assistant for *Small Data* (Statistics/Machine Learning masters-level course).

University of Oxford *September 2011 – September 2012*

M Sc in Mathematics and Foundations of Computer Science

Distinction, Top Ranked.

Thesis **On the chromatic number of random graphs**, with Prof. Oliver Riordan. (95/100 points).

Universidad Autonoma de Madrid *September 2006 – June 2011*

B.A. Computer Science (Four-year Spanish equivalent degree)

First Class Honours.

B.A. Mathematics (Four-year Spanish equivalent degree)

First Class Honours.

Imperial College London *September 2009 – June 2010*

Exchange student in the Department of Mathematics.

ESTALMAT Project (Universidad Complutense de Madrid) *September 2001 – June 2003*

Mathematical Talent Encouragement Project, supported by the Spanish Royal Academy of Science, provides advanced learning opportunities for mathematically gifted children aged between 11 and 12.

AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

Floodgate Fund, Venture Capital firm based in Palo Alto, CA. *September 2014 – June 2015*
Tech Advisor for *Radical Science* Projects, working with partner Ann Miura-Ko. Previous (early stage) investments include Twitter, Lyft, AngelList, Ayasdi and IFTTT.

Fellow at SUM 2014 (Stanford - USTC - MIT) Hefei / Beijing, China. September 2014
Summer entrepreneurship program; broad perspective of business, technology and startups in China.

Hyundai Brilliant Young Entrepreneurs Award May 2014
ERGON Desk project — PYNK Systems. \$20K Prize.

DARPA Graduate Research Assistantship September 2013 – December 2014
US Defense Advanced Research Projects Agency RA to work on Online Stochastic Matching algorithms.

InSITE Fellowship, Silicon Valley. November 2013 – June 2015
Two-year program focussed on entrepreneurship, technology and venture finance.

Best Project In Innovation, Stanford and Columbia Bicoastal Datafest February 2013
\$1K Prize. Economics, Politics and Data Mining. Project: “Congressional Financial Disclosures”.

Graduate Departmental Fellowship September 2012 – September 2013
Stanford University, Institute for Computational and Mathematical Engineering.

Brasenose Prize for Outstanding Performance in Mathematics September 2012
Brasenose College, University of Oxford.

Fundación Caja Madrid Scholar September 2011 - September 2012
Awarded to two students annually in Maths. Attended University of Oxford, Mathematical Institute.

University Academic Excellence Scholarship Madrid City Council, Spain
Granted annually to the top 0.05% of the highest-achieving students across all of Madrid’s universities.
Awarded in 2007, 2008 and 2009.

National Research Scholarship Consejo Superior de Investigaciones Científicas (CSIC)
Awarded in the summer of 2009 and 2010. Attended JAE Summer School of Mathematics. Involved in several research projects covering a wide range of computational and mathematical topics.

LEADERSHIP AND ACTIVITIES

Founder and CTO of PYNK Systems. February 2014 — Present
ERGON Desk; Smart and Ergonomic Network of Hexagonal Office Desks.

Volunteering in Guatemala, Cooperatour NGO July 2008, Sacatepéquez, Guatemala.
Taught children aged 7 to 11 in a small school in the ghetto of Jocotenango. Stayed with a local family.

SKILLS AND INTERESTS

Computer Languages	Python, R, Java, Scala, Javascript, C++, PHP, SQL, CSS.
Tools, Libraries & DBs	Hadoop, Hive, MySQL, PostgreSQL, jQuery, d3 (data visualization).
Languages	Spanish (native), English.
Teaching	Experience in tutoring students in Maths, Physics and Chemistry.
Athletics	Stanford Men’s Club Soccer, Oxford University Football Club. Brasenose College Boat Club (rowing).