

# Gonzalo Barrera Borla

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## Education

2009 – 2014 **Licenciatura en Ciencias Económicas (Equivalent to BA in Economics + MA)**, *Universidad de Buenos Aires (UBA)*, GPA: 8.94 (10.0 scale).

## Master's Thesis

Title **The limits of electoral predictability.**

Description Using open data from Argentina's 2013 national legislative election, I estimate the absolute lower bound for the error in predicting the elections' results, as a function of the sample size used. With such data as parameter, I analyze the veracity of certain claims made in the Argentinean media about the election outcome. Grade: 10/10. Code and essay available on GitHub. [[link to repository](#)]

## Work Experience

June 2013 **Business Analyst**, *Xagax LLC*, Buenos Aires, Argentina.

April 2016 Automatization of reports delivered on daily basis to Marketing, Fulfillments and Accounting teams. Ad-hoc consulting to executive management in extraordinary business decisions through quantitative analyses of our existing data, or by designing experiments and evaluating results. Examples include choosing the new price points on a major overhaul of our userbase's subscription plans, and developing a profile of typical abusive customers and a prototype "abuse detection" system.

April 2012 **Junior Mathematical Olympiad Coach**, *Children's School*, Buenos Aires, Argentina.

Currently Training students to participate in "Olimpiada Matematica Ñandu", Argentina's Junior Mathematical Olympiad, with weekly problem-solving workshops aimed at 10-12 year-olds.

2012 – 2015 **Teaching Assistant**, *Universidad de Buenos Aires*, Buenos Aires, Argentina.

Teaching assistant at the Facultad de Ciencias Economicas for a "Statistics II" class. Syllabus starts with a formal presentation of probability distributions, and covers standard techniques for constructing and evaluating estimators, such as null-hypothesis tests and multivariate linear regression.

2006 – 2012 **Private tutor**, Buenos Aires, Argentina.

Personalized tutoring in Mathematics, Physics and Chemistry for primary school to undergraduate students.

## Technical Skills

Advanced **SQL**  
Intermediate **Ruby, Bash, standard Unix tools**  
Basic **R, Octave,  $\text{\LaTeX}$**

## Languages

Spanish **Native speaker**  
English **Bilingual CPE (CEFR C2), 2008. Grade: A**  
French **Advanced**  
Portuguese **Advanced**

## Interests

Science Olympiads I participated throughout high school in Mathematical and Chemistry Olympiads, consistently obtaining top finishes at national (chemistry) and international (mathematics) events.

Machine Learning Completed "Machine Learning" by Andrew Nguyen on Coursera. Certificate earned on Jan 2016 [[link to certificate](#)]

Intellectual Property I gave a talk entitled *Reflections on the Epistemology of Intellectual Property*, analyzing the effects that IP rights have on the development of art, culture, science and technology. Presented at the XVIII "Jornadas de Epistemología de las Ciencias Económicas", Universidad de Buenos Aires, 2012.

Personal I am fond of gardening, restoring abandoned furniture, practising acrobatics and meditation. I especially enjoy reading and writing (both a journal and short pieces).