Federico M. **Barabas**

Stockholm, Sweden

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Skills_

Programming Python (numpy, pandas, scikit-learn, matplotlib, seaborn), Java, SQL, Linux, Git.
Statistics Significance, hypothesis testing, life-table analysis, supervised and unsupervised learning.

Experience_____

Natural Cycles

DATA SCIENTIST HEALTH

- Large-scale data analysis for groundbreaking research on women's health
- User behaviour modelling. Statistics: survival history analysis, life-tables
- Communication of research results to broad audiences (medical conferences, internal or general public)
- KPI tracking
- Help team recruitment and localization, translations for spanish

Advanced Optical Bio-Imaging Lab, SciLifeLab

POSTDOC RESEARCHER

- Building and automation programming of a next-generation microscope for biological samples.
- Image data analysis and visualization
- · Advising and teaching of Master students.

Applied NanoPhysics Group, Bionanosciences Research Center

PhD candidate

- Designed, building and programming of a state-of-the-art microscope for biological samples.
 - Software description published in REVIEW OF SCIENTIFIC INSTRUMENTS (2016).
 - Code repository: github.com/fedebarabas/tormenta.
- Headed the development of an image analysis tool to automatically quantify the presence of periodical structures. It enabled the community to understand mechanisms of neuron degeneration, as published in SCIENTIFIC REPORTS (2018).
 - Software description published in SCIENTIFIC REPORTS (2017).
 - Code repository: github.com/fedebarabas/ringfinder.

Education

Buenos Aires University

PHD IN PHYSICAL SCIENCES

Buenos Aires University

LICENCIATE IN PHYSICAL SCIENCES

Courses ____

Stanford University

MACHINE LEARNING COURSE

Teaching_____

Physics Dept., Buenos Aires University

GRADUATED ADVANCED LABORATORY TEACHING ASSISTANT

Science and Technology School, San Martín National University

GRADUATED TEACHING ASSISTANT

Buenos Aires, Argentina 2015 - 2017 Buenos Aires, Argentina 2012 - 2013

Stockholm, Sweden

Stockholm, Sweden 2018 - PRESENT

Buenos Aires, Argentina

2012 - 2017

2017 - 2018

Buenos Aires, Argentina 2012 - 2017 Buenos Aires, Argentina 2006 - 2012

www.coursera.org

Nov 2017 - Jan 2018

JANUARY 20, 2019

Management

Optical Society of America Student Chapter

President

- Doubled the number of active members through the organization of recruitment activities.
- Wrote winning grant applications that led to a 50% growth in the Chapter resources.
- Launched a new activity where young researchers presented their work to spark collaborations and inspire students into optics.

Additional information

Languages Spanish (native), English (fluent), Swedish (basic).

Tech interests Machine learning, deep learning, artificial intelligence, open source projects, open data, open hardware, data visualization, data journalism.

Other interests bike fixing and touring, space and astronomy, /r/dataisbeautiful/, /r/MapPorn, Seinfeld.

Buenos Aires University

2015 - 2017