

DUCAU, FELIPE NICOLÁS

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fducau.github.io
April 2017

EDUCATION

New York University MS of Science in Data Science	2017, New York, USA Fulbright Scholar
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GPA 3.922/4

PROJECTS *CWord*: Incorporating Larger Context in Neural Conversation Model.
SightWalk: Optimizing Walking Paths Based on Interestingness.
Mutual Information in Variational Autoencoders.
Kickstarter Project Funding Success: Probability Estimation.
Identifying Reproducibility in Scientific Publications.
Student's correct answer probability estimation for an online education system.

Universidad Católica Argentina Electrical Engineering	2013, Buenos Aires, Argentina
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OVERALL GPA 8.74/10 (*Diploma of Honor*)

FINAL PROJECT *Keyboard Acoustic Emanations*. Eavesdropping technique to recover text from keystrokes sound using unsupervised learning techniques and graphical models.

OTHER PROJECTS *Rotary Inverted Pendulum Control System*. Built and controlled an unstable non-linear control problem.

TECHNICAL SKILLS

Data Analysis, Machine Learning, Python, Pandas, R, scikit-learn, Tensorflow, NLP, RNN, CNN, NMT, MATLAB, C, Bash, Git, Probability & Statistics, Web Scraping, Big Data, MapReduce, Spark, Hadoop, Digital Communications, Networking, Satellite Communications, Control Systems Design.

RELEVANT WORK EXPERIENCE

7 Chord LLC Data Science Intern	New York, USA Summer 2016
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- Built and evaluated machine learning approach to determine the fair price of a corporate bond.
- Conducted analysis to decompose the fair value into curve and structural liquidity components.
- Co-Designed the infrastructure and data pipeline for the trading platform.

Emerging Markets Communications Network Engineer	Buenos Aires, Argentina January 2014 — June 2015
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- Administered the Edge network of the company.
- Participated in the integration of a purchased company network.
- Designed network-to-network interfaces for mobile network operators.
- Remodeled backhaul solutions for worldwide distributed companies.
- Evaluated and systematized IP assignation process.

TEACHING/RESEARCH EXPERIENCE

Universidad Católica Argentina Course Assistant	Buenos Aires, Argentina March 2012 — June 2013
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COURSES Electronics II, Electronic Design I & II, Communications Laboratory.
Led problem classes and advised in laboratory assignments.

Universidad Católica Argentina & CONICET PEPACG - Research Internship	Buenos Aires, Argentina April 2011 — December 2011
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- Participated in the conditioning of a spectrophotometer.
- Designed and implemented a spectrophotometer computer interface for continuous data acquisition.

LEADERSHIP EXPERIENCE

Ekoparty Security Conference	Buenos Aires, Argentina, September 2012
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- Planned, coordinated, and conducted a three-day workshop on physical security for 200 participants.

LANGUAGES

Spanish and English (Full professional proficiency) / French (Elementary proficiency)

OTHER INTERESTS

Augmented Intelligence, Deep Learning, Active Learning, Reinforcement Learning, (Open)Data, Privacy and Encryption Systems, Encrypted Machine Learning, Blockchain, Open Hardware Projects, Computer Security, Digital Signal Processing, Data Science for Social Good.