

DUCAU, FELIPE NICOLÁS

fnd212@nyu.edu
+1 347 981 6412

github.com/fducau
January 2017

EDUCATION

New York University	2017, New York, USA
MS of Science in Data Science	Fulbright Scholar

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	2013, Buenos Aires, Argentina
Electrical Engineering	

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.

TECHINICAL SKILLS

Data Analysis, Machine Learning, Python, Pandas, R, scikit-learn, Tensorflow, NLP, MATLAB, C, Assembler, Bash, Git, Probability & Statistics, Microcontrollers, Web Scraping, Linux, Digital Communications, Networking, LaTeX, Satellite Communications, Control Systems Design.

RELEVANT WORK EXPERIENCE

7 Chord LLC	New York, USA
Data Science Intern	Summer 2016

- 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	Buenos Aires, Argentina
Network Engineer	January 2014 — June 2015

- 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	Buenos Aires, Argentina
Course Assistant	March 2012 — June 2013

COURSES Electronics II, Electronic Design I & II, Communications Laboratory.
Led problem classes and advised in laboratory assignments.

Universidad Católica Argentina & CONICET	Buenos Aires, Argentina
PEPACG - Research Internship	April 2011 — December 2011

- 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
-------------------------------------	---

- 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.