

ROCCO DI TELLA

roccoditella1@gmail.com

EDUCATION

Universidad de Buenos Aires

Licenciatura in Data Science (B.S. + M.Sc. equivalent)

Thesis Advisors: Enzo Tagliazucchi, Gabriel Kreiman

Thesis project: Convolutional Neural Networks as models of human visual attention.

2020 - 2024

GPA: 9.0/10

RESEARCH EXPERIENCE

Visiting Student Fellowship — AstroAI, Harvard Center for Astrophysics

jun - aug, 2025

Advisors: Cecilia Garraffo, Juan Martínez Galarza

Flow Matching with Transformer architectures to generate multi-modal posteriors for images and X-ray spectra from Galaxies.

Research Assistant — Applied Artificial Intelligence Lab, UBA

2025 - present

Advisor: Luciana Ferrer

My work is on automatic detection of Hallucinations in Generative Language Models using grey-box calibration methods and white-box probing.

Research Assistant — Kreiman Lab, Harvard Medical School

jan 2024 - march 2025

Advisor: Gabriel Kreiman

Followed work done during my MSc. thesis to study computational, cognitive and neuroscientific models of human visual attention.

Research Assistant — Center for A.I. and Neuroscience, UTDT

2021 - 2022

Developed Bayesian methods for efficient experiment design.

TEACHING EXPERIENCE

Teaching Fellow — Universidad de San Andres (UdeSA)

2025 - present

TF for an advanced undergraduate course on Machine Learning.

Teaching Assistant — Universidad de Buenos Aires (UBA)

2024

TA for graduate courses on Bayesian and Causal Inference and undergraduate on Statistics.

Teaching Assistant — Universidad Torcuato Di Tella (UTDT)

2022 and 2024

TA for undergraduate courses on Statistics and Cognitive Science.

INDUSTRY EXPERIENCE

Data Scientist — GRIDX Biotech Venture Capital

2021 - 2022

Started a data consulting team which grew into an independent company.

Data Scientist — El Gato y La Caja

2017 - 2021

Engaged in data storytelling aimed at a general audience and designed experiments for cognitive science research. Click [here](#) to see showcased work.

AWARDS

Visiting Student Fellowship Award — Smithsonian Astrophysical Observatory

2025

Received a fellowship award as a short-term research scholar at AstroAI (Harvard & Smithsonian)

ACADEMIC PUBLICATIONS

- “AI Boom: The New Dawn or Dusk for Visual Search” (first author, in progress).
- “Fast Nonparametric Bayesian Framework for On-the-Fly Adaptive Design Optimization” (co-author, in progress).
- “Optimum Integration Procedure for Connectionist and Dynamic Field Equations”, *Frontiers in Neurorobotics* (co-author).
- “Lifetime Use of Psychedelics is Associated With Better Mental Health Indicators During the COVID-19 Pandemic”, *Journal of Psychedelic Studies* (co-author).

CONFERENCE PRESENTATIONS

- “Finding Waldo”, Simposio Científico de Inteligencia Artificial y Aplicaciones, 2024 (poster).
- “A Bayesian Look”, Bayes Plurinacional Workshop, 2024 (short talk and poster).
- “Fast Nonparametric Bayesian Framework for On-the-Fly Adaptive Design Optimization”, Bayes Plurinacional Workshop, 2023 (poster).
- “A Massive Experiment on Choice Blindness”, Sociedad Argentina de Neurociencia, 2017 (poster).

TECHNICAL SKILLS

- Technical knowledge: Deep Learning, Computer Vision, Generative Language Models, Interpretability, Causal Inference, Bayesian Statistics, Probabilistic Programming.
- Programming languages: Python, R, Julia
- Developer Tools: Git, AWS, linux, nvim