

# Alvaro Franco Martins

## PERSONAL DATA

---

ADRESS: Maringá, Brazil  
E-MAIL: [alvarought@gmail.com](mailto:alvarought@gmail.com)  
PHONE: +55 44 9 8841-5250  
WEBSITE: [alvarofrancomartins.com](http://alvarofrancomartins.com)

## PROFILE

---

DATA SCIENTIST      Physicist working on complex networks and data science. I have a particular interest in the application of statistical data analysis to uncover patterns in data sets related to criminal activity. My main interests are

- Data Science
- Deep Learning
- Machine Learning
- Data Visualization
- Complex Networks

## EDUCATION

---

2021 -	PhD Student State University of Maringá  As a PhD fellow, I work on the project “Network and data science applied to study corruption and organized crime.” My primary goal is to extract meaningful patterns from data on criminal activities, uncovering rules and mechanisms that govern their structure and dynamics.
2019 - 2021	MSc in Physics State University of Maringá Thesis: The dynamics of political corruption networks.
2014 - 2018	BSc in Physics State University of Maringá Thesis: Time series analysis via complexity-entropy curves.

## AWARDS AND FELLOWSHIPS

---

2021 -	Doctoral fellowship (CAPES) Academic Cooperation Program (PROCAD) in Public Security and Forensic Sciences
2019 - 2021	Master fellowship (CAPES)
2014 - 2018	Undergraduate research fellowship (CNPq)

## LANGUAGES

---

ENGLISH:	TOEFL ITP (600/677)
PORTUGUESE:	Native Language

## TECHNICAL SKILLS

---

PROGRAMMING	Python.
LIBRARIES	numpy, scipy, pandas, matplotlib, scikit-learn, graph-tool.

## PUBLICATIONS

---

2018	H. V. Ribeiro, L. G. A. Alves, <b>A. F. Martins</b> , E. K. Lenzi, and M. Perc, <i>The dynamical structure of political corruption networks</i> , Journal of Complex Networks 6, 989.
------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------