# Taymara Aline Rodrigues Dias

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English (Fluent),
Portuguese (Native)
Italian (Basic)

## Summary

MSc in physics with problem solving and analytical skills, passionate of learning and improving, aspiring to enroll in the tech industry with some experience in data analysis.

## Programming Skills

- **Languages:** Python, Matlab, HTML5, CSS3, JavaScript
- **Python libraries:** SciPy, scikit-learn, keras, spaCy, SQLAlchemy, Rasa NLU, scrapy
- **Databases:** SQL.
- **Misc:** Git, bash, Latex.

## Experience

- July 2015 - Sept. 2016: **Physics Teacher at AEON** — São Paulo, Brazil
  - Conducted some lectures and gave tutoring sessions to the students.
- Aug. 2014 - July 2015: **Presenter at Physics Show at University of São Paulo** — São Paulo, Brazil
  - Presented the traditional two hours physics show three times a week to fundamental and high schools from the entire country, including events for the general public.

## Education

- July 2017 - Present: **MSc in Applied Physics** — University of São Paulo, Brazil
  - **Relevant Coursework**: Data Analysis, Statistics, Dynamical systems, Chaos
  - **Research**: "Modification of turbulent transport by electrostatic polarization in magnetically confined plasmas" funded by CAPES.
    - Studied the two major explanations for the phenomenon of enhancement of the plasma confinement due to electrostatic polarization in the perspective of TCABR data.
    - Performed numerical integrations of differential equations in simulations of the chaotic dynamics of TCABR plasma particles through time. The TCABR information were mainly extract from the turbulent signals with spectral analysis.
    - Analysed intermittent extreme events related with particle clumps through correlation, conditional mean, spectral analysis and regression analysis, determining size and velocity of this structures.
- Feb. 2014 - July 2017: **BSc in Physics** — University of São Paulo, Brazil
  - **Relevant Coursework**: Data Analysis, Statistics, Stochastic dynamics, Calculus.
  - **Research**:
    - Aug. 2015 - July 2016: Introductory research on Plasma Physics funded by Cnpq, "Times scale of plasma phenomenons on the tokamak TCABR".
    - Aug. 2016 - July 2017: Introductory research on Plasma Physics funded by Cnpq, "Particle transport driven by drift waves on the tokamak TCABR".
- **MOOC's**
  - **Coursera**: Applied AI with DeepLearning, Advanced Machine Learning and Signal Processing, Fundamentals of Scalable Data Science.
  - **Linkedin Learning (Lynda)**: Python Essential Training, Advanced SQL for Data Scientists, MySQL Essential Training, HTML Essential Training, CSS Essential Training I, JavaScript Essential Training, Programming Foundation: Databases.
  - **Datacamp**: Building chatbots in Python, Web Scraping in Python, Introduction to Databases in Python.
  - **SoloLearn**: Python, CSS3, JavaScript, HTML5.

## Volunteering

- July 2016 - July 2017: **Volunteer Physics Teacher** — ETEC Jaraguá, Brazil
  - Coordenated, structered and gave weekly lectures on high school physics to students of ETEC Jaraguá, aiming to improve results on the Public School's Brazilian Olympics of Physics (OBFEP).

## Awards

- 2017: **Distinct introductory research** — University of São Paulo
  - Best ten percent introductory research of the University of São Paulo.
- 2014: **Golden medal** — Brasilian Physics Olympiad of Public Schools (OBFEP)
- 2013: **Bronze medal** — Brasilian Physics Olympiad of Public Schools (OBFEP)