

# Bruno Gomes Coelho

brunogomescoelho.github.io/  
github.com/BrunoGomesCoelho

bruno.gomes.coelho@usp.br  
Mobile : +55 19 983364459  
linkedin.com/in/bruno-coelho-277519129/

## EDUCATION

- **University of São Paulo (USP), ICMC** Campus of São Carlos, Brasil  
*Bachelor's degree in Computer Science; Emphasis in Data Science; GPA: 8.8/10.0 Feb. 2016 – Dec. 2019 (predicted)*

## WORK EXPERIENCE

- **University of São Paulo, ICMC** São Carlos, São Paulo  
*Research Assitant - international scholarship Mar 2017 - Present*
  - **Processing:** Transformed raw audio data (mosquitos wingbeats) into structured data using time series analys.
  - **Classifying:** Evaluated different models (tree classifiers, deep neural networks, SVMs, etc.) to classify different insect species; achieved highest classification accuracy (99%) in our yearly milestone report.
  - **Final Product:** Smart mosquito trap prototype, with the final product still being developed with financing from the United States Agency for International Development.
- **Birdie** São Carlos, São Paulo  
*Data Science Intern Aug 2018 - Feb 2019*
  - **Data Aquisition:** Acquired more than 1 million e-commerce products through crawlers; Extraction of useful features from unstructured textual data.
  - **Machine Learning:** Created a hieraquiqual structure of product categories using transductive ML models; Deployed the models as micro-services and scalable internal libraries for processing 10 million+ daily products.

## MAJOR PROJECTS

- **Finalist of the Data Science Games 2018** May 2018 - Set 2018
  - **Qualification Phase - Kaggle competition:** Analyzed the bond market with data provided by BNP Paribas; Predicted customer interest in a bond using diverse data, from customer data to international market information; Final result in the top 30 worldwide from 220 participating universities, guarantying a place in the final.
  - **Final - 2 day hackaton:** Used e-commerce data to help predict customer interest in online shopping; Achieved original's company baseline in less than 30 hours.
- **Member of The AI-Academy Brazil** May 2018 - Present
  - **Group Stucture:** Multicultural group focused on creating a reliable data science network in São Paulo, sponsored by Axigen Develoment Agency; One of 10 members accepted for the 2018 class from 500+ candidates.
  - **Group Projects:** Acquired data for a natural language analysis of candidates partaking in the 2018 Brazilian election; By-weekly meetups for discussion of data science topics.
- **Co-founder of DATA - Extracurricular Data Science Group** September 2018 - Present
  - **Co-Founder:** Creating and structuring a extracurricular data science group recognized by the university
  - **Teaching:** Weekly classes teaching basics Machine Learning concepts (statiscal learning theory, K-NN, Linear Regression, SVMs, etc) and frameworks (numpy, pandas, seaborn, scikit-learn) to a class of 30 students.

## VOLUNTEER PROJECTS

- **Programming Tutor (12 months):** Taught programming (Javascript and HTML) to underprivileged communities.
- **Tutor (8 months):** Personal mentor to student, helped to build a study plan and schedule, provided feedback.

## TECHINICAL SKILLS

**Languages:** Python, SQL, C, Java

**Frameworks:** SciPy, Scikit-Learn, Pandas, Seaborn

**Technologies:** BeautifulSoup, Scrapy, Git, Docker, Airflow, Jupyter

## AWARDS

- Honorable mention on best article at USP's International Symposium of Undergraduate Research - International Stage, presenting researched conducted on optimizing classifier parameters for insect datasets.
- Recipient of Academic Featured Student (2016), for students with a cumulative GPA above 9.0/10.0. About 7 in each 100 students are awarded each year.