

# Bruno Gomes Coelho

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## EDUCATION

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- **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    Fev. 2016 – Dec. 2019 (predicted)*

## WORK EXPERIENCE

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- **University of São Paulo, ICMC** São Carlos, São Paulo  
*Research Assistant - international scholarship by USAID    Mar 2017 - Present*
  - **Processing:** Transformed raw audio data (mosquito's wingbeats) into structured data using time series analysis.
  - **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.
- **Birdie** São Carlos, São Paulo  
*Data Science Intern    Aug 2018 - Feb 2019*
  - **Data Acquisition:** Acquired more than 1 million e-commerce products through crawlers; Extraction of useful features from unstructured textual data.
  - **Machine Learning:** Created a hierarchical 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

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- **Finalist of the Data Science Games 2018** May 2018 - Set 2018
  - **Qualification Phase - Kaggle competition:** Analysed 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.
- **Co-founder of DATA - Extracurricular Data Science Group** September 2018 - Present
  - **Co-Founder:** Creating and structuring a extracurricular data science group recognised by the university
  - **Teaching:** Weekly classes teaching basic Machine Learning concepts (statistical learning theory, K-NN, Linear Regression, SVMs, etc) and frameworks (numpy, pandas, seaborn, scikit-learn) to a class of 30 students.
  - **Deep Learning:** Weekly DL study group focused on image recognition and paper discussion. Projects being developed with financing from Santander.
- **Data Mining Cup - International ML competition** April 2019 - June 2019
  - **About:** Placed 19th from 149 Teams from 114 universities in 28 countries - Best team from Brazil.
  - **Challenge:** Classifying food retailer self checkout data as fraudulent or not. Dealing with very small amounts of training data and a test set 100x bigger.

## INVITED EVENTS & SIDE PROJECTS

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- **Khipu:** Latin American Meeting In Artificial Intelligence, invited participant and scholarship receiver.
- **5th Mathematics Solutions Workshop for Industrial Problems:** Invited participant.
- **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.

## TECHNICAL SKILLS

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

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

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

## AWARDS

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- Honourable mention on best article at USP's International Symposium of Undergraduate Research - International Stage. Less than 600 mentions given from over 3200 applicants.
- 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.