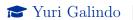
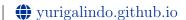
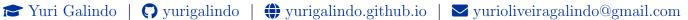
# Yuri Galindo









# EDUCATION

#### Federal University of São Paulo

- B.S in Computer Science

2018 - 2022

- B.S in Science and Technology

2018 - 2021

- Featured Coursework: Machine Learning, Artificial Intelligence, Complex Systems, Convex Optimization, Operations Research, Algorithm Design and Analysis, Parallel and Distributed Computing.

#### Technological Institute of Aeronautics

Mechanical Engineering

2014 - 2017

- Featured Coursework: Linear Algebra, Probability and Statistics, Multivariable Calculus, Complex Analysis, Vector Calculus, Partial Differential Equations.

# Research Experience

#### Fatima Fellowship

May 2022 - Present day

- Researching simplicity bias: the tendency of neural networks to learn only the simplest features.
- Showed that retraining the last layer can mitigate this simplicity bias only under some conditions.
- Showed that neural networks can actually learn more complex features, although with smaller weights.

**Graduation Thesis** Apr 2021 - Feb 2022

- Tested hypotheses for the lack of robustness of neural networks with the CLIP model.
- Showed that reliance on non-robust features may not be related to natural distribution shift robustness.
- Showed that use of high frequency information may be related to natural distribution shift robustness.
- Published the research at a CVPR workshop on robustness.

#### São Paulo Research Foundation

Jan 2019 - Jul 2020

- Received a grant to develop a model for detecting meteors in camera images.
- Proposed training and testing on separate regions to account for distribution shift.
- Used confidence calibration to select 60% of the images and obtain 98% accuracy in this subset.
- Presented at the Latin American Meeting in Artificial Intelligence and published at ICONIP.

# Work Experience

#### Itaú Unibanco | Computer Vision Team - Data Scientist

May 2022 - Present day

- Monitoring a model that computes similarity between faces from selfies and documents. Involves detecting distribution shift of model output and tracking percentage of matching faces by similarity level.
- Refactored a legacy model that detected frauds in checks for cloud deployment.
- Developed a model for assessing blur in selfies using classical computer vision algorithms.

- Built and deployed an API for comparison of location profiles by analyzing transaction data.
- Built and deployed an API for comparison of services between banks by analyzing open finance data.
- Designed and implemented the integration of two internal packages for machine learning experiment tracking (similar to MLFlow).
- Obtained second place in a competition by forecasting clients purchases to recommend credit increase.

#### Fhinck | Backend and Analytics Team - Intern

Jan 2017 - Mar 2017

- Developed back-end functionalities such as a timeline feature, and automatized processes.
- Realized an inference analysis on software acquired data, which successfully identified the strategies being adopted by a call center.

# Teaching Experience

Multivariable Calculus Tutor at Federal University of São Paulo	2021
Volunteer High School Tutor at CASDVest	2020
Volunteer High School Tutor at CASDVest	2015
Volunteer Middle School Tutor at CASDinho	2014
Volunteer Astronomy Olimpiad Teacher at CASDinho	2014

# Publications

Yuri Galindo and Fabio A. Faria (2022). "Understanding CLIP Robustness". In: The Art of Robustness: Devil and Angel in Adversarial Machine Learning. Workshop at IEEE Conference on Computer Vision and Pattern Recognition 2022.

Yuri Galindo, Marcelo De Cicco, et al. (2020). "Monitoring Night Skies with Deep Learning". In: International Conference on Neural Information Processing. Springer, pp. 460–468.

Yuri Galindo and Ana Carolina Lorena (2018). "Deep transfer learning for meteor detection". In: Anais do XV Encontro Nacional de Inteligência Artificial e Computacional. SBC, pp. 528–537.

# SKILLS

Languages: Python, C, SQL, LATEX, PHP

Toolkits: Git, PyTorch, scikit-learn, NumPy, Docker