

# PEDRO TABACOF

## ADDRESS

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## EDUCATION

PhD, Computer Engineering 2017-present  
RECOD lab., University of Campinas (Unicamp), Brazil

Master's, Computer Engineering 2015-2017  
RECOD lab., University of Campinas (Unicamp), Brazil  
GPA: 4.0/4.0  
Exploring Adversarial Images in Deep Neural Networks  
*24 academic and 2 media citations*

Bachelor of Science, Computer Engineering 2008-2013  
Unicamp, Brazil  
*Graduated with distinction (top 10% of the class)*

### International experience

University exchange student	Bishop's University, QC, Canada	2010
High school exchange student	Coon Rapids High School, MN, USA	2006

## PROFESSIONAL EXPERIENCE

<b>Researcher</b>	Motorola Mobility	2017-present
Smartphone bug detection and classification. Bug retrieval using vector space models. Interpretability of machine learning models.		

<b>Co-founder</b>	Datart Data Science	2016-present
Data science consulting startup company. Specialized in predictive modeling for e-commerces, including predicting conversion rates, churn, and customer lifetime value.		

<b>R&amp;D engineer</b>	I.Systems Industrial Automation	2013-2016
Researched and developed many applications, including machine learning models for industrial data and stochastic process control modules. Created and embedded a Lua based scripting language to the main control software. Worked on a government sponsored project on data visualization. Principal investigator at a FAPESP grant. Managed two researchers and three interns. Participated to industrial deployments.		

<b>Internship</b>	I.Systems Industrial Automation	2012-2013
Developed a dynamic simulator of industrial processes using system identification.		

## ACADEMIC EXPERIENCE

<b>Academic internship</b>	ČVUT v Praze, Czech Republic	2012
Developed a photovoltaic cell simulator, including a graphical user interface in Python.		

<b>Undergraduate research</b>	LSC, IC, Unicamp	2010-2011
Worked on a multi-core secure cryptoprocessor under supervision of prof. Guido Araújo. Project funded by Facti.		

<b>Teaching assistant</b>	IC, Unicamp	2016
Data Structures (MC202).		

**PUBLICATIONS**

Pedro Tabacof, Julia Tavares, and Eduardo Valle. “Adversarial images for variational autoencoders”. *NIPS Workshop on Adversarial Training*, 2016. *Spotlight presentation*.

Ramon Oliveira\*, Pedro Tabacof\*, and Eduardo Valle. “Known Unknowns: Uncertainty Quality in Bayesian Neural Networks”. *NIPS Workshop on Bayesian Deep Learning*, 2016.

Alan Godoy, Pedro Tabacof, and Fernando J. Von Zuben. “The role of the interaction network in the emergence of diversity of behavior”. *PloS one* 12.2, 2017.

Pedro Tabacof and Eduardo Valle. “Exploring the space of adversarial images”. *IEEE International Joint Conference on Neural Networks*, 2016.

Pedro Tabacof, Tim Busbice, and Stephen D. Larson. “Beyond the connectome hairball: Rational visualizations and analysis of the *C. elegans* connectome as a network graph using hive plots”. *Frontiers in Neuroinformatics*, 20:55–65, 2013.

**CERTIFICATIONS**

Deep Learning Summer School (1/3 acceptance rate), Université de Montréal, 2016.

World Congress on Computational Intelligence, Vancouver, 2016. *Received IEEE-CIS travel grant*.

Machine Learning Summer School, UT Austin, 2015.

Green Belt Six Sigma, EDTI Campinas, 2014.

Graduate studies on Automation and Intelligent Systems, FEEC, 2013.

**COMPUTER SKILLS**

**Languages:** Python, C/C++, Lua, MATLAB, R, SQL, JavaScript, Scala

**Frameworks:** Scikit-learn, Lasagne, Theano, Torch7, Stan, CUDA, D3.js

**Miscellaneous:** Git, Excel,  $\text{\LaTeX}$

**LANGUAGES**

Native: Portuguese

Fluent: English

Beginner: French

Last updated: June 28, 2017