

# PEDRO TABACOF

## ADDRESS

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## EDUCATION

Master's, Electrical Engineering 2015-present  
RECOD lab., University of Campinas (Unicamp), Brazil  
GPA: 4.0/4.0  
Deep learning (adversarial images and variational autoencoders)  
*Six academic and two 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

**R&D engineer** I.Systems Industrial Automation SA 2013-present  
Principal investigator at FAPESP grant, managing one PhD and one software engineer. Managed three research interns. Participated to advanced control deployments. Researched and developed modules for stochastic process control, regression analysis of industrial data, advanced regulatory control. Embedded a Lua based scripting language to the control system. Worked on a government sponsored project (FINEP) on industrial data visualization.

**Internship** I.Systems Industrial Automation SA 2012-2013  
Developed a dynamic simulator of industrial processes using system identification and optimization.

## ACADEMIC EXPERIENCE

**Academic internship** ČVUT v Praze, Czech Republic 2012  
Non-profit activities at the department of electrotechnology. Developed a photovoltaic cell simulator with a graphical user interface in Python.

**Undergraduate research** LSC, IC, Unicamp 2010-2011  
Worked on a multi-core cryptographic microprocessor under supervision of prof. Guido Araújo. Project funded by Facti.

**Teaching assistant** IC, Unicamp  
Data Structures (MC202). 2016  
Algorithms and Computer Programming (MC102) 2009-2010

## COMPUTER SKILLS

**Languages:** C/C++, Python, Lua, MATLAB, R, SQL, JavaScript, Scala  
**Frameworks:** Torch7, Theano, Scikit-learn, PyMC, Stan, CUDA, D3.js  
**Miscellaneous:** Excel, Git, L<sup>A</sup>T<sub>E</sub>X

## PUBLICATIONS

Pedro Tabacof and Eduardo Valle. Exploring the space of adversarial images. *IEEE International*

*Joint Conference on Neural Networks*, 2016.

Alan Godoy, Pedro Tabacof, and Fernando J. Von Zuben. The role of the interaction network in the emergence of diversity of behavior. *Submitted to the Journal of Artificial Intelligence Research*, 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.

Machine Learning Summer School, UT Austin, 2015.

Green Belt Six Sigma, EDTI Campinas, 2014.

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

## **LANGUAGES**

Native: Portuguese

Fluent: English

Beginner: French

Last updated: July 27, 2016