# **Thalita Drumond**

#### PhD in computer science

- O Toulouse, France
- thalitafdrumond@gmail.com
- thalitadru.github.io
- in linkedin.com/in/thalita-drumond

# Profile ——

Passionate about teaching and providing creative solutions to real problems, I am looking forward to opportunities in these domains.

### Skills ——

- AI, machine learning and deep learning
- Data science: data mining and data visualization

#### SW development –

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  - Scientific: Numpy, Scipy
  - 🔟 DataViz: Pandas, Matplotlib
  - Machine learning: PyTorch, Tensorflow, Scikit-learn

- C/C++
- Matlab
- HDLs (VHDL, Verilog)
- Java, R, HTML/CSS, PostgreSQL

#### Soft skils —

Problem-Solving • Autonomy • Curiosity Pragmatism • Collaboration • Attentive

#### Languages -

- French: fluent English: fluent 105/120 TOELF iBT (2010)
- Portuguese: native

## Interests —

- Performing arts: dancing, singing and musical theater
- DIY and handcrafts in general

### **Experience**

- Apr Jul 2021 Course instructor **EPSI Bordeaux and Toulouse** 116 h. Level M1, computer engineering degrée, alternance option. Groups of  $\sim$ 20 students. Coursework charge: - Neural networks and deep learning: fundamentals. - Machine learning and deep learning: tools. - AI and cybersecurity: network monitoring. 됟 Responsible for full-course execution including design of course materials and assessments. Jan – Jun 2020 Temporary professor (ATER) Université de Bordeaux, France 96h of teaching for computer science students (L1). Courses: Array algorithms, Intro to databases and web programming. Oct 2016 -PhD candidate researcher INRIA Bordeaux Sud-ouest. France Dec 2019 Study of **deep learning** models for image classification. Focus on small data learning and model interpretability. Advisors: Dr. Frederic Alexandre and Dr. Thierry Vieville.
  - SW development in Python.
  - Engaged in science outreach activities.
  - 👽 gitlab.inria.fr/mnemosyne/data\_prototypes 🗹
  - 2017, 2018 Teaching assistant Université de Bordeaux, France - Lab sessions and exercises: Intro to algorithms and programming (40h), Intro to computer networks (20h). - Lectures on artificial neural networks and deep learning for Coqnitive Science MSc.(3h, 6h)
  - 2014-2016 MSc candidate researcher FAPESP scholarship, Unicamp, Brazil Scolarship by state agency FAPESP <sup>C</sup>. Study, analysis and proposition of machine learning solutions using co-clustering: Advisor: Prof. Dr. Fernando J. Von Zuben.
    - Recommender systems with collaborative filtering.
    - Pattern mining on brain activity time series.
    - SW development in Python.
    - 🗘 unicamp-lbic/reclab<sup>C</sup> unicamp-lbic/ccc-biclustering<sup>C</sup> 3 3

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### **Education**

2016 – 2020 (4)	PhD in computer science	Université de Bordeaux
(4)	Specialized in AI and particularly in <b>deep leaning</b> models for <b>im-</b> <b>age classification</b> . Defended December 3rd, 2020.	
2014 – 2016	MSc Electrical Eng. Computer eng.	Unicamp
(3)	Specialized in <b>artificial intelligence</b> and <b>machine learning</b> .	
2011 – 2013		Télécom Parsitech, Paris, France
(2)	Specialized in embedded systems and SoC design.	
2008 – 2014	BSc Electrical Engineering	Unicamp
(1)	Course paused for a 2-year double	degree program at Télécom
	Paristech.	

### **Publications**

2018 Bio-inspired analysis of deep learning on not-so-big data using data-prototypes T. F. Drumond, F. Alexandre, T. Vieville. Frontiers of Computational Neuroscience. 2017 Using prototypes to improve convolutional networks interpretability T. F. Drumond, F. Alexandre, T. Vieville. NIPS workshop on Transparent and interpretable Machine Learning in Safety Critical Environments. Jouez avec les neurones de la machine 2017 T. F. Drumond, L. Viennot, T. Vieville, V. François Popular science article at lemonde.fr/blog/binaire.