





# Thalita F. Drumond


PhD student in artificial intelligence


 Toulouse, France


 Ask me!

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 Brazilian


 [linkedin.com/in/thalita-drumond/en](https://www.linkedin.com/in/thalita-drumond/en)


 [github.com/thalitadru](https://github.com/thalitadru)


 [gitlab.inria.fr/tfirmodr](https://gitlab.inria.fr/tfirmodr)



## Programming —



 Python 2/3 



 Numpy, Scipy



 Pandas, Matplotlib


 Scikit-learn, TensorFlow, PyTorch


 Matlab 


 C/C++ 

 Java, R 


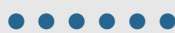
 HDLs 



 Other software tools


 Microsoft Office, Libre Office, Google Docs, Latex


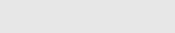
 Linux, Windows



## Languages —

 Portuguese 


 English 


 105/120 TOELF iBT (2010)


 French 


 Spanish 

## Interests —

 Teaching and education

 Social impacts of AI

 Dancing (jazz, contemporary)

 Singing (choir, musical theater)

## Experience

Jan–Jun 2020 **Attaché Temporaire d'Enseignement et Recherche (ATER)** Université de Bordeaux, France  
96h of teaching for computer science students (L1). Courses: Array algorithms, Intro to databases and web programming. Continuation of PhD research project.

2016–2019 **PhD research project** INRIA Bordeaux Sud-ouest, France  
Working on improving data-efficiency of deep learning models in computer vision taking inspirations from the visual cortex. Engaged in science outreach activities. Advisors: Dr. Frederic Alexandre and Dr. Thierry Vieville.

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 Cognitive Science MSc. (3h, 6h)

2014–2016 **MSc research project** FAPESP scholarship, Unicamp, Brazil  
Co-clustering for collaborative filtering and brain time-series analysis. Advisor: Prof. Dr. Fernando J. Von Zuben.

2012–2013 **Research Internship** CEA, Gif-sur-Yvette, France  
Hardware assisted verification for the design of multi-core architectures. Supervisor: Dr. Caaliph Andriamisaina.

## Education

2016–present **PhD in computer science** Université de Bordeaux  
Expected defense date: December 2020.

2014–2016 **MSc Electrical Engineering** Unicamp  
GPA – 4/4. Sub-area: Computer Engineering. Specialized in computational intelligence and machine learning.

2011–2013 **Diplôme d'ingénieur (M.Eng.)** Télécom Parsitech, Paris, France  
GPA – 15/20. Specialized in embedded systems and SoC design. Scholarships from Fondation Télécom (France) and CAPES (Brazil).

2008–2014 **BSc Electrical Engineering** Unicamp  
GPA – 0.8189/1, Class rank – 9<sup>th</sup>/84. Course paused for a 2 years double degree program in Télécom Paristech.

## Publications

2018 **Bio-inspired analysis of deep learning on not-so-big data using data-prototypes**  
*T. F. Drumond, F. Alexandre and T. Vieville.*  
Frontiers of Computational Neuroscience.

2017 **Using prototypes to improve convolutional networks interpretability**  
*T. F. Drumond, F. Alexandre and T. Vieville.*  
NIPS workshop on Transparent and interpretable Machine Learning in Safety Critical Environments.

2016 **Ensemble for Collaborative Filtering based on Random Projections and Boolean Matrix Factorization**  
*T. F. Drumond and F.J. Von Zuben.*  
IASTED International Conference on Intelligent Systems and Control. Oral presentation.

2016 **Obtaining functional dynamic brain networks with contiguous co-clustering**  
*T. F. Drumond F. J. Von Zuben, R. F. Casseb, L. C. T. Herrera, G. Castellano*  
3rd BRAINN Congress. Expanded abstracts published in *Journal of Epilepsy and Clinical Neurophysiology*.