

Thalita F. Drumond

PhD student in artificial intelligence

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Brazilian

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github.com/thalitadru

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 TOEFL 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: November 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 – 9th/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*.