Thalita F. Drumond

PhD student in artificial intelligence

Toulouse,France

Ask me!

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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 TOELF iBT (2010)
- French ●●●●●○
- Spanish ●○○○○○

Interests

- Teaching and education
- Social impacts of AI
- Dancing (jazz, contemporary)
- Singing (choir, musical theather)

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 excercises: Intro to algorithms and programing (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 – 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*.