

## João Loula

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- EDUCATION**    *MSc in Applied Mathematics and Computer Science*    2017-  
École Normale Supérieure Paris-Saclay
- Ingénieur Polytechnicien in Applied Mathematics and Computer Science*  
                  *(BSc and MSc equivalent)*    2015-2017  
                  École Polytechnique
- BSc in Electrical Engineering*    2013-2014  
                  *(interrupted to attend École Polytechnique)*  
                  Universidade de São Paulo
- PUBLICA-  
TIONS**
- Tsividis, P.A., **Loula, J.**, Burga, J., Pouncy, T., Gershman, S. J., Tenenbaum, J. B. Human Learning of Video Games. *NIPS Workshop on Cognitively Informed Artificial Intelligence (Spotlight Talk)*, 2017.*
- Loula, J.**, Thirion, B., Varoquaux, G. Decoding fMRI activity in the time domain improves classification performance. *NeuroImage*, 2017.*
- Huntenburg, J. M., Abraham, A., **Loula, J.**, Liem, F., Dadi, K., Varoquaux, G. Loading and plotting of cortical surface representations in Nilearn. *Research Ideas and Outcomes*, 2017.*
- RESEARCH  
EXPERIENCE**    *Harvard University, Massachusetts Institute of Technology*    2017  
Supervisors: Samuel Gershman, Joshua Tenenbaum
- Work on human-level learning in Atari-like games, learning theories from gameplay and using them to plan in a model-based manner.
    - Paper selected for Spotlight Talk at NIPS workshop
    - Journal publication in progress
- Parietal Team, Inria*    2016  
Supervisors: Bertrand Thirion and Gaël Varoquaux
- Developed and implemented a novel approach to decoding fMRI data in the time domain using machine learning.
    - Published paper
    - Created a toolbox for algorithm implementation
  - Contributed actively to Nilearn, the team’s open-source package for machine learning on brain data (Parietal is the creator of many high-profile open-source projects, notably Scikit-learn and Joblib).

	<i>Mathematical Neuroscience Team, Collège de France</i>	2015-2016
	Supervisor: Jonathan Touboul	
	<ul style="list-style-type: none"> <li>• Performed analysis and mathematical modeling of orientation map data in the cat early visual cortex.</li> <li>• Implemented an Artificial Neural Network to model early visual cortex structure.</li> </ul>	
<b>TALKS</b>	<i>Nilearn Tutorial</i> , Brainhack Vienna	2016
<b>AWARDS</b>	Eiffel Excellence Scholarship	2015-2017
<b>TEACHING</b>	English Tutor, <i>École Polytechnique de Paris</i>	2015-2016
<b>EXPERIENCE</b>	Linear Algebra Review Classes <i>Universidade de São Paulo</i>	2014
<b>OTHER</b>	Technical blog containing neuroscience, machine-learning and math projects: <a href="http://joaoloula.github.io">joaoloula.github.io</a> ; Code : <a href="https://github.com/joaoloula">github.com/joaoloula</a>	
<b>TECHNOLOGY</b>	<i>Programming Languages</i> : Python, R, C++, MATLAB	
<b>SUMMARY</b>	<i>Others</i> : Unix, Git, $\text{\LaTeX}$	