

João Loula

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EDUCATION	<i>MSc in Applied Mathematics and Computer Science</i>	2016-
	École Polytechnique de Paris	
	<i>BSc in Electrical Engineering</i>	2013-2016
	École Polytechnique de Paris - Universidade de São Paulo	
RESEARCH EXPERIENCE	<i>Parietal Team, Inria</i>	Summer 2016
	Paris, France	
	<ul style="list-style-type: none">• Developed and implemented a novel approach to decoding fMRI data in the time domain using machine learning.<ul style="list-style-type: none">– Working paper– Creation of a toolbox for algorithm implementation• Worked on 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
	Paris, France	
	<ul style="list-style-type: none">• Performed analysis and mathematical modeling of orientation map data in the cat early visual cortex.• Implemented an Artificial Neural Network to model early visual cortex structure.	
	<i>Automation and Control Lab, Universidade de São Paulo</i>	2014
	São Paulo, Brazil	
	<ul style="list-style-type: none">• Developed software for approximating shortest paths on manifolds for use in control systems.	
PAPERS	<i>Loula, J ., Thirion, B., Varoquaux, G. (in preparation). Time-domain fMRI decoding.</i>	
TALKS	<i>Nilearn Tutorial, Brainhack Vienna</i>	2016
AWARDS	Eiffel Excellence Scholarship	2015-2017
TEACHING EXPERIENCE	English Tutor, <i>École Polytechnique de Paris</i>	2015-2016
	Linear Algebra Review Classes <i>Universidade de São Paulo</i>	2014

OTHER Technical blog containing neuroscience, machine-learning and math projects:
joaoloula.github.io ; Code : github.com/joaoloula

TECHNOLOGY *Programming Languages:* Python, C++, MATLAB
SUMMARY *Others:* Unix, Git, \LaTeX