

Raphael Vallat

Curriculum Vitae

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📄 [raphaelvallat.github.io](https://github.com/raphaelvallat)
French, 25 years old



Education and diploma

- 2009 Scientific baccalaureate, *cum laude*
- 2012 Bachelor degree of Cognitive Sciences, *ranked 1st*, Lyon 2 University
- 2014 Master degree in Neuroscience, *cum laude*, Lyon 1 University
- 2014–17 PhD program in Cognitive Neurosciences, ongoing (CRNL)
Lyon Neuroscience Research Center (CRNL) - PhD defense in December 2017

Fellowship and awards

- 2012–14 Two-year merit scholarship, from the French Ministry of Education
- 2014–17 Three-year PhD fellowship, from the French Ministry of Higher Education and Research

Teaching activities

Teacher in Neuroscience (200h), since October 2014 (Lyon 1 University)

Neurobiology / Neuroanatomy, 1st and 2nd year of Bachelor Degree
Social science, 1st year of Medicine
Neuro-imaging, Master degree in Neuroscience
Supervision of two master students (Research master in Neuroscience)
Elected representative of the non-permanent members in CRNL council

Specific skills

Software development

- 2017–pres Sleep: an open-source Python software for visualization, analysis and staging of sleep data. [[Link](#)]

Neurosciences

- Methodology Polysomnography and sleep studies, combined EEG-fMRI, resting-state fMRI, behavioural studies
- Analysis Signal processing, Sleep scoring and ERP analyses
Functional and connectivity MRI analyses (*CONN Toolbox*, *SPM*, *FSL*, *Nipype*)
- Programming Python, Matlab, \LaTeX , HTML, Shell, R, Presentation

Formations

- 2016 fMRI course (3 days) organized by the Neuroscience and Cognition Doctoral School, Lyon, FR
- 2015 Second Brain Connectivity course (4 days) organized by the Grenoble Institute of Neuroscience, FR
- 2014 EEG-fMRI workshop (2 days) organized by Brain Products GmbH, Lyon, FR

Outreach

- 2016 Organizer of the Doctoral Day of the Lyon Federative Research Structure in Health
- 2015 Invited oral presenter for a general public conference on sleep and dreams (1h, at Lyon town hall)
Organizer of a thematic week on neuroscience for 6 high-school students
Organizer and chairman of "*Les Saisons du CRNL*" conference on neurosciences and society

Languages

- French Mother tongue
- English Fluent

Publications

Articles

- 2017 [Vallat R.](#), Lajnef T., Eichenlaub J.-B., Berthomier C., Jerbi K., Morlet D., and Ruby P. (2017). Increased Evoked Potentials to Arousing Auditory Stimuli during Sleep: Implication for the Understanding of Dream Recall. *Frontiers in Human Neuroscience*, 11. <https://doi.org/10.3389/fnhum.2017.00132> - [PDF]
- [Vallat R.](#), Chatard B., Blagrove M. & Ruby P. Characteristics of the memory sources of dreams: a new version of the content-matching paradigm to take mundane and remote memories into account (*under revision, Plos One*)
- [Vallat R.*](#), Combrisson E.*, Eichenlaub J.-B., O'Reilly C., Lajnef T., Guillot A., Ruby P. & Jerbi K. Sleep: an open-source python software for visualization, analysis and staging of sleep data (*submitted to Frontiers in Neuroinformatics*)
- [Vallat R.](#), Meunier D., Turker B., Nicolas A. & Ruby P. Functional connectivity at awakening: the cerebral correlates of sleep inertia assessed using combined EEG-fMRI (*in preparation*)
- [Vallat R.](#), Eskinazi M., Nicolas A. & Ruby P. Sleep habits and dream recall frequency in a representative sample of French students. (*in preparation*)
- Ruby P., Chatard B., [Vallat R.](#), Hoyer R. & Bidet-Caulet A. Top-down and bottom-up attentional processes in high and low dream recallers: an EEG study (*in preparation*)
- Plailly J., Villalba M., [Vallat R.](#), Nicolas A. & Ruby P. Recalling a dream related to a recent experience: does it help episodic memory consolidation? (*in preparation*)

Oral presentations and posters

- 2016 [Vallat R.](#), Meunier D., Turker B., Nicolas A & Ruby P. Sleep inertia and functional connectivity between brain regions at awakening: an EEG-fMRI study. *Poster/abstract for ESRS conference (Italy) and FENS conference (Denmark)*
- [Vallat R.](#), Meunier D., Turker B., Nicolas A & Ruby P. Sleep inertia and functional connectivity between brain regions at awakening: an EEG-fMRI study. *Oral presentation for IASD conference (Netherlands)*
- 2015 [Vallat R.](#), Eichenlaub J.-B., Morlet D. & Ruby P. Macro and micro structure of sleep in high and low dream recallers. *Oral Presentation for NPSA conference (Netherlands) and IASD conference (USA)*
- [Vallat R.](#), Eichenlaub J.-B., Morlet D. & Ruby P. Macro and micro structure of sleep in high and low dream recallers. *Poster for ASSC conference (France)*
- 2014 [Vallat R.](#), Eichenlaub J.-B., Morlet D. & Ruby P. Macro and micro structure of sleep in high and low dream recallers. *Oral presentation for IASD conference (USA)*

Review

- 2017 Co-reviewer for [Journal of Cognitive Neuroscience](#)
- 2017 Reviewer for [International Journal of Dream research](#)

Interests

- Music Guitar and bass (10 years, self-learner), composition
- Sports Swimming (10 years), martial arts (7 years), ski, hiking, climbing

List of referees

- Center director: Olivier Bertrand (olivier.bertrand@inserm.fr)
- PhD supervisor: Perrine Ruby (perrine.ruby@inserm.fr)