



# Ulysse Klatzmann

*Passionate about Large Scale Neuro-Cognitive Modeling*

## Education

- 2018–2019 **Master student**, *CogMaster, Ecole normale supérieure (ULM), Paris.*
- Cognitive Neuroscience
- Spring 2013 **Undergraduate student**, *Columbia University, New York.*
- Theoretical Neuroscience
- 2010–2014 **Master in Engineering**, *Telecom ParisTech, Paris, GPA – 3.84.*
- Data Science and Entrepreneurship

## Academic experiences

- 2020–2021 **Modeling Global Neuronal Workspace within Large Scale Network**, *NYU, New York.*
- Implementing the Global Neuronal Workspace architecture proposed by Stanislas Dehaene and colleagues within the Large scale framework developed by Xiao-Jing Wang and colleagues, based on the macaque cortex architecture (Kennedy and colleagues). Exploration of the impact of AMPA, NMDA and GABA gating variables ratio on local and global dynamics.
  - Tutors : Xiao-Jing Wang & Sean Froudish-Walsh
  - Collaborators : Daniel Bliss, Panagiota Theodoni
  - Modeling tools : Brian and Pydstool
  - Klatzmann, U., Froudish-Walsh, S., Bliss, D.P., Theodoni, P., Mejías, J., Niu, M., Rapan, L., Palomero-Gallagher, N., Sergent, C., Dehaene, S. and Wang, X.J., 2022. A connectome-based model of conscious access in monkey cortex *bioRxiv* 2021.02.22.432173 (2022)
- Spring 2019 **Modeling consciousness access non-linearity**, *NeuroSpin, Paris.*
- Modeling the non-linearity of neuron response in the dorsolateral Prefrontal Cortex found in van Vugt et al. data (2018) using a full brain spiking network inspired by Joglekar et al. model (2018) and based on Markov et al. connectivity matrix (2012)
  - Tutor : Stanislas Dehaene & Claire Sergent
  - Collaborators : Bram van Vugt, Jorge Mejias, Xia-Jing Wang
  - Modeling tools : Brian and Alambic distributed computation structure
- Spring 2013 **Modeling neuron orientation tuning in V1**, *Columbia University, New York.*
- Modeling the unsupervised specialisation of neurons in Cortex V1, layer 2/3 in a spiking network based on physiological data from Hofer et al. (2011) using Spike-timing-dependent plasticity equations from Clopath et al. (2010).
  - Tutor : Claudia Clopath
  - Modeling tools : Core Python
  - Clopath, Claudia, Jacopo Bono, and Ulysse Klatzmann. "Excitatory to inhibitory connectivity shaped by synaptic and homeostatic plasticity." *BMC Neuroscience* **16**, no. 1 (2015): 1-2.

11 rue du Tage – 75013, Paris

☎ +33 (0)6 09 18 28 37 • ✉ [ulyseklatzmann@gmail.com](mailto:ulyseklatzmann@gmail.com)

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## Entrepreneurial Experiences

- 2021 **CEO and founder**, *Mediterranean Association for Cognitive Science*.
- Organisation of the Mediterranean Seminar for Consciousness 2021
  - 20 Early Career Researchers from various backgrounds, 8 Senior Speakers
  - 20k euros budget, Financial support from EBRAINS and the Human Brain Project
  - 2 Scientific Popularization videos with high impact YouTubers (Monsieur Phi and Dirty Biology)
- 2015–2018 **Growth & BI**, *OpenClassrooms*.
- MOOC European leader, 3 500 000 monthly users
  - Reshape of the growth strategic model
  - Set up from scratch of the Business Intelligence system
  - +365% Revenue, +2400% students, two fundraisings, total amount : 53M euros
- 2012–2014 **CEO and founder**, *Shapter*.
- Online platform aggregating student reviews on academic courses.
  - 7 campuses, 2000+ Students, 50 000 euros raised (Xavier Niel and French State)
  - Incubated at ParisTech Entrepreneur, Accelerated at TheFamily Fellowship
- 2012–2013 **Data Science Intern**, *Work4*.
- Matching engine development (python/C++)
  - Reshape of the distributed computed architecture (Celery)
  - Matching algorithms : Facebook profiles/ job offers

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## Technical skills

### Programming languages

**Main language - python**

**Other languages -** Basic, Cml, C/C++, MySQL, php, Redshift, Latex, Matlab, R

**Other programming skills** Distributed computing, algorithmic, data structures, large data bases, web programming

### Sense of humor

humor of circumstance, running gag, running gag.

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## Extra activities

### Art & Literature

- Authors : M. Kundera, A. Maalouf, I. Asimov, P. Verlainne
- Composers : Phil Glass, Ludovico Einaudi, Steve Reich
- Scientists : A. Einstein, C. Darwin, K. Godel, J. Monod, T. Khun

### Travel

- Travel around the Mediterranean sea, from Marseille to middle east
- Silk road, from Paris to X'ian, no plane nor hotel
- Going up the Amazon, from the Atlantic to the Pacific
- Going up the Nile, from Alexandria to Khartoum

### Strategy game

- Board games, video games, card games

### Sports

- Treks (Corsica, Nepal, Thailand, Norway, Burma, Armenia, Kyrgyzstan, Ecuador)
- Bouldering (7a+ Level)