

Jonathan Platkiewicz

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Summary

Versatile and creative scientist with strong scientific foundations (PhD in theoretical neuroscience at ENS) and extensive experience in programming (Python), mathematical modeling (statistics), and data analysis

Skills

Programming Python, Matlab, SQL, C++

Tools Jupyter, Matplotlib, Seaborn, Pandas, NumPy, SciPy, Scikit-Learn, Theano

Softwares Adobe Creative Suite, LaTeX, SolidWorks, MeshLab, Processing, Audacity, WaveLab, Carto

Theories Statistics, Machine Learning, Neural Networks, Artificial Intelligence, Numerical Analysis

Languages English, French

Professional Experience

Postdoctoral Researcher (2014 – present) City College of New York (Mathematics) – New York University (Neuroscience)

- Developed data-driven statistical/machine learning methods for brain connectivity reconstruction
- Published a first-author publication in Neural Computation
- Awarded a 3-year \$600K grant with Asohan Amarasingham from the US Department of Defense
- Supervised 7 research trainees
- Used Python for large extracellular/optogenetic datasets analysis and neural networks simulation
- Organized a monthly seminar in theoretical neuroscience

Adjunct Professor (2014 and 2016) City College of New York (Mathematics)

- Taught Elements of Probability Theory and Precalculus

Postdoctoral Researcher (2010 – 2014) Cornell University (Engineering) – University of Pierre and Marie Curie (Robotics)

- Studied human touch by developing haptic interfaces and artificial intelligence models
- Published 3 first-author publications in Scientific Reports, Journal of Neurophysiology, and EuroHaptics
- Awarded a Fulbright Visiting Scholar Fellowship
- Supervised 4 engineers
- Used Python and Matlab for behavioral, psychological, and mechanical data analysis
- Organized 1 international scientific workshop and 3 popular science workshops. Produced radio shows

Graduate Researcher (2006 – 2010) Ecole Normale Supérieure (Cognitive Science) – Harvard University (Applied Sciences)

- Developed mathematical models of neuron dynamics
- Published 4 peer-reviewed international publications cited more than 200 times
- Awarded a 3-year PhD fellowship from the French Department of Education
- Used Python and Matlab for large patch-clamp datasets analysis and neural models simulation

Education

PhD Theoretical Neuroscience, Ecole Normale Supérieure (2006 – 2010) [33rd world position - QS University Rankings]

MS Cognitive Science, Ecole Normale Supérieure Paris-Saclay (2004 – 2005)

BS Physics, Ecole Normale Supérieure Paris-Saclay (2003 – 2004)