

PETER LONJERS  
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### **Education:**

Graduate work in neuroscience, University of California Riverside 2010-2012  
Masters of Computer Science, University of California, Riverside 2010  
Bachelor of Science, Rose-Hulman Institute of Technology 2007

### **Development expertise:**

The last 4 years has been mostly on Python back ends to web applications supporting search and analytics applications. My most recent development stacks have been python, postgresSQL, elasticsearch, and flask. Previously I worked on distributed systems in C using MPI and openMP. Throughout my main development infrastructure has been Linux, Git, Emacs, and AWS.

### **Work Experience:**

Airmedia, Los Angeles CA, 2015

- Worked on a large scale video hosting platform in various capacities
- Specifically handled reporting and analytics using Google's big query.

ZEFR, Venice CA 2012-2014:

- Wrote a custom search engine for Youtube using the Youtube API to power analytics and advertising platforms.
- Created analytics tools to work with large sets of Youtube videos

University of California, Riverside Neuroscience graduate student researcher 2010-2012:

- Extending and parallelizing realistic neuron simulation software
- Research was concentrated in deep sleep, epilepsy, and learning

University of California, Riverside Computer Science graduate student researcher 2008-2010:

- Developing a program to find approximate solutions to large linear programs.

Elastic Image, Terre Haute, IN Software Developer for 2006:

- Developed image recognition software used in thermoforming applications

Personal

- Programmatically improving articles on Wikipedia
- Building a internet of things controller for fans.
- See <https://github.com/utilitarianexe/>

### **Publications:**

Maxime Lemieux, Jen-Yung Chen, Peter Lonjers, Maxim Bazhenov, Igor Timofeev, *The Impact of Cortical Deafferentation on the Neocortical Slow Oscillation*, The Journal of Neuroscience, April 16 2014

Skorheim S, Lonjers P, Bazhenov M, *A Spiking Network Model of Decision Making Employing Rewarded STDP*. PLoS ONE, Mach, 14, 2014

Chen JY1, Lonjers P, Lee C, Chistiakova M, Volgushev M, Bazhenov M., *Heterosynaptic plasticity prevents runaway synaptic dynamics.*, Journal of Neuroscience. 2013

Bazhenov, M., Lonjers, P., Skorheim, S., Bedard, C. & Destexhe, A., *Non-homogeneous extracellular resistivity affects the current source density profiles of up-down state oscillations*. Philosophical Transactions of the Royal Society A, 2011