## **Colin Bredenberg**

Contact Information	40 Waterside Plaza, Apt. 23A New York, NY 10010 <i>Phone:</i> +1 215 384-6752 <i>E-mail:</i> cjb617@nyu.edu	
EDUCATION	New York University (Supervisors: Cristina Savin, Eero Simoncelli)	
	Neural Science Ph.D Candidate	2017-Present
	University of Pittsburgh	
	BPhil in Mathematical Biology and Neuroscience Chemistry Minor	2013-2017
PROFESSIONAL	Now York University	
LAFERIENCE	Craduate Student in Neural Science	2017 present
	Graduate Student III Incutal Science	2017-present
	University of Pittsburgh (Supervisor: Brent Doiron)	
	Research assistant	2015-2017
	University of Pittsburgh (Supervisor: Bita Moghaddam)	
	Research assistant	2013-2014
	University of Pennsylvania (Supervisors: John Trojanowski, Virgina Lee)	
	Research assistant (Summer)	2013-2017
PUBLICATIONS	Bredenberg, C., Simoncelli, E., & Savin, C. (2020). Learning efficient task- dependent representations with synaptic plasticity. Advances in Neural In- formation Processing Systems, 33.	
	Robinson, J. L., Lee, E. B., Xie, S. X., Rennert, L., Suh, E., Bredenberg, C., & Hurtig, H. I. (2018). Neurodegenerative disease concomitant proteinopathies are prevalent, age-related and APOE4-associated. Brain.	
	Bredenberg, C. (2017). Examining heterogeneous weight perturbations in neural networks with spike-timing-dependent plasticity (BPhil Thesis, University of Pittsburgh).	

## PRESENTATIONS

Bredenberg C., Savin C., and Kiani R. (2020, February). Recurrent neural circuits overcome partial inactivation by compensation and relearning. Poster presentation, Cosyne 2020.

Bredenberg C., Simoncelli E. P., and Savin C. (2019, December). Learning efficient, task-dependent representations with synaptic plasticity. Poster presentation, NeuRIPS Workshop on Biological and Artificial Reinforcement Learning.

Bredenberg C., Simoncelli E. P., and Savin C. (2019, February). Learning efficient, task-dependent representations with synaptic plasticity. Poster presentation, Cosyne 2019.

Bredenberg C., Doiron B. (2017, February). Examining weight perturbations in plastic neural networks. Poster presentation, Cosyne 2017.

Bredenberg C., Doiron B. (2016, October). Examining Variably Diffuse Weight Perturbations in Plastic Neural Networks. Poster presention, University of Pittsburgh's Science 2016.

Suh E, Bredenberg C., Van Deerlin V. (2014, October). Screening for Mutations in Frontotemporal Degeneration with a Targeted Next Generation Sequencing Panel. Poster presentation, International Conference on Frontotemporal Dementia.

TEACHINGTA for Introduction to Time Series Analysis, taught by Prof. Cristina Savin,EXPERIENCEFall 2020.

TA for Introduction to Neural Science, taught by Prof. Anthony Movshon, Fall 2018.

OTHER NYU NeuWrite lead officer, 2019-2021

Scientist Action and Advocacy Network member, 2018-2021