CONTACT INFORMATION	4 Washington Place, room X New York, NY 10003	312-885-8749 upo201@nyu.edu	
EDUCATION	The University of Chicago, Chicago, IL		
	Ph.D. in Statistics (advisor: Nicolas Brune M.S. in Statistics	2018 2015	
	Universidad de Chile, Santiago, Chile		
	M.S. in Physics, (advisor: Enrique Tirapeg Molecular Biotechnology Engineer Certific B.S. in Physics (ranked 1/6)	,	
EMPLOYMENT	New York University, New York City, NY		
	Postdoctoral Associate, Center for Neural $1/19$	Science (supervisor: Xiao-Jing Wang),	
Honors and Awards	Young Leader Prize. Diario Financiero (Chilea Doctoral Fulbright Fellowship. Fulbright communication Best Physics Student of Class 2011. Universid CONICYT Master Fellowship. Chilean Govern Scholarship for Undergraduate Studies. Chilean	mission. 07/12 ad de Chile. 12/11 nment. Ranked 5/1584. 03/11	
PUBLICATIONS	4. Pereira U and Brunel N. Attractor dynamics in networks with learning rules inferred from in vivo data. <i>Neuron</i> , 99(1), 227-238, 2018.		
	3. Pereira U , Coullet P and Tirapegui E. The Bogdanov-Takens Normal Form: A Minimal Model for Single Neuron Dynamics. <i>Entropy</i> , 17(12):7859–7874, 2015.		
	2. Vera J, Pezzoli M, Pereira U , Bacigalupo J and Sanhueza M. Electrical Resonance in the θ Frequency Range in Olfactory Amygdala Neurons. <i>Plos One</i> , 9(1):e85826, 2014.		
	 Contreras D, Pereira U, Hernández V, Reynae for metabolic closure. In <i>ECAL</i>, pages 176–1 2011. 	1 0	
SUBMITTED MANUSCRIPTS	 Pereira U and Brunel N. Unsupervised Learning of Persistent and Sequential Activity. bioRxiv, October, 2018. 		
	1. Vera J, Pereira U , Reynaert B, Bacigalupo J and Sanhueza M. Neuronal resonance in the theta (4-10 Hz) frequency range is modulated by dynamic changes in the input resistance. <i>bioRxiv</i> , November, 2017.		
MANUSCRIPTS	2. Pereira U , Aljadeff J and Brunel N. Memory and Chaos in Neuronal Networks.		
IN PREPARATION	1. Gillett M, Pereira U and Brunel N. Unsupervised learning of sequential activity with temporally asymmetric Hebbian learning rules.		

Last update: 04/10/2019

INVITED TALKS

- 11/18 Psychology Department. Pontificia Universidad Católica de Chile, Santiago
- 10/18 Institute of Neuroscience. University of Oregon, Eugene
- 09/18 Bernstein Conference, Satellite Workshops. TUB, Berlin
- 07/18 Neuroscience Program. University of Illinois at Urbana-Champaign, Champaign
- 03/18 Center for Neural Science. NYU, New York
- 03/18 Center for Theoretical Neuroscience. Columbia University, New York
- 03/18 Center for Brain Science. Harvard University, Cambridge
- 10/17 Workshop on Theoretical Neuroscience. Janelia Research Campus, Ashburn
- 09/17 Physics Department. Universidad de Chile, Santiago
- 06/17 International Conference on Mathematical Neuroscience, Boulder

Conference Posters

- 13. Gillett M, **Pereira U** and Brunel N. Unsupervised learning of sequential activity with temporally asymmetric Hebbian learning rules. COSYNE Poster Presentation. Denver, EEUU. February 2018.
- Pereira U and Brunel N. Optimal Unsupervised Hebbian Learning Rules For Attractor Neural Networks. COSYNE Poster Presentation. Salt Lake City, EEUU. February 2017.
- 11. **Pereira U** and Brunel N. Unsupervised Learning of Persistent and Sequential Activity. COSYNE Poster Presentation. Salt Lake City, EEUU. February 2016.
- Pereira U and Brunel N. Unsupervised Learning of Sequential Activity. XV International Workshop on Instabilities and Nonequilibrium Structures. Valparaíso, Chile. December 2015.
- 9. Vera J, **Pereira U**, Reynaert B, Bacigalupo J and Sanhueza M. Modulation of frequency preference by changes in input resistance. 44th Annual Meeting Society for Neuroscience. Washington D.C., USA. November 2014.
- 8. Vera J., **Pereira U.**, Reynaert B., Deichler A., Astudillo D., Bacigalupo J., and Sanhueza M. A biological context for theta-frequency neuronal resonance: a comparative study between cortical amygdala and hippocampal neurons. X Annual meeting of the Chilean Society for Neuroscience. October, 2014. Valdivia, Chile.
- Pereira U, Tirapegui E. Una Ecuación Universal Para la Dinámica Neuronal. In Proceedings of the XVII Conference on Nonequilibrium Statistical Mechanics and Nonlinear Physics. Santiago, Chile. December 2012.
- Pereira U., Tirapegui E. Una Ecuación Universal Para la Dinámica Neuronal. In Proceedings of the XVIII Simposio Chileno de Física. La Serena, Chile. November, 2012.
- 5. **Pereira U.**, Vera J., Pezzoli M., Bacigalupo J. and Sanhueza M. A computational conductance-based model that reproduce theta resonance dynamics in olfactory amygdala neurons. *41st Annual meeting of the Society for Neuroscience*. Washington DC, EEUU. November, 2011.
- 4. Vera J, **Pereira U.**, Pezzoli M., Bacigalupo J. and Sanhueza M. Sub and suprathreshold dynamics of resonant neurons in the olfactory amygdala. *41st Annual meeting of the Society for Neuroscience*. Washington DC, EEUU. November, 2011.
- 3. Contreras D, **Pereira U**, Hernández V, Reynaert B and Letelier JC. A loop conjecture for metabolic closure. *Eleventh European Conference on the Synthesis and Simulation of Living Systems*. Paris, France. August 2011.
- 2. **Pereira U**, Pezzoli M, Bacigalupo J, Sanhueza M. A computational conductance-based model of electrical resonance in the theta frequency range in olfactory amygdala neurons. VI meeting of the Chilean Society of Neuroscience. Valdivia, Chile. September 2010.

Jaramillo S., Honorato-Zimmer R., Pereira U., Contreras D., Reynaert B., Hernández V., Soto-Andrade J., Cárdenas M.L., Cornish-Bowden A. and Letelier J.C. (M,R) Systems and RAF Sets: Common Ideas, Tools and Projections. XII Artificial life Conference. Odense, Denmark. August, 2010.

TEACHING EXPERIENCE

The University of Chicago

Theoretical Neuroscience (TA)	Winter 17
Statistical Methods and Applications (TA)	Fall 16
Statistical Models and Methods (TA)	Spring 15
Statistical Models and Methods (Lecturer)	Winter 15
Statistical Methods and Applications (TA)	Fall 15
Statistical Methods and Applications (TA)	Spring 14
Elementary Statistic (TA)	Fall 14
Theoretical Neuroscience (TA)	Winter 13

Universidad de Chile

General Physiology (TA)	Fall 10
Biological Instrumentation (TA)	Spring 08

Courses

Methods in Computational Neuroscience. Marine Biology Lab. Woods Hole, MA, USA.

July 29-August 24, 2018
Latin American Summer School in Computational Neuroscience. Institute of Complex Systems. Valparaíso, Chile.

January 11-29, 2010

VI Summer School of Complex Systems. Institute of Complex Systems. Valparaíso, Chile.

January 7-11, 2008