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CONTACT INFORMATION	George Herbert Jones Laboratory 5747 S. Ellis Avenue, Chicago, IL 60637	312-885-8749 ulises@uchicago.edu
EDUCATION	The University of Chicago, Chicago, IL	
	Ph.D. in Statistics (advisor: <i>Nicolas Brunel</i>) M.S. in Statistics	2018 2015
	Universidad de Chile, Santiago, Chile	
	M.S. in Physics, (advisor: <i>Enrique Tirapegui</i>) Molecular Biotechnology Engineer Certificate (ranked 1/8 B.S. in Physics (ranked 1/6)	2013 2013 2012
EMPLOYMENT	New York University, New York City, NY	
	Postdoctoral Associate, Center for Neural Science	starting on $01/19$
Honors and Awards	Young Leader Prize. Diario Financiero (Chilean newspaper). Doctoral Fulbright Fellowship. Fulbright commission. Best Physics Student of Class 2011. Universidad de Chile. CONICYT Master Fellowship. Chilean Government. Ranked Scholarship for Undergraduate Studies. Chilean Ministry of E	·
Publications	 Pereira U and Brunel N. Attractor dynamics in networks with from in vivo data. Neuron, 99(1), 227-238, 2018. 	n learning rules inferred
	3. Pereira U , Coullet P and Tirapegui E. The Bogdanov-Tal Minimal Model for Single Neuron Dynamics. <i>Entropy</i> , 17(12)	
	2. Vera J, Pezzoli M, Pereira U , Bacigalupo J and Sanhueza M in the θ Frequency Range in Olfactory Amygdala Neurons. 2014.	I. Electrical Resonance
	 Contreras D, Pereira U, Hernández V, Reynaert B and Letelie for metabolic closure. In ECAL, pages 176–183, 2011. MIT 2011. Selected one of the ten best papers of ECAL 2011. 	
Manuscripts Submitted	2. Vera J, Pereira U , Reynaert B, Bacigalupo J and Sanhueza in the theta (4-10 Hz) frequency range is modulated by dynam resistance. <i>bioRxiv</i> , November, 2017.	
	1. Pereira U and Brunel N. Unsupervised Learning of Persistent $bioRxiv,$ October, 2018.	and Sequential Activity.
Manuscripts in Preparation	 Gillett M, Pereira U and Brunel N. Unsupervised learning with temporally asymmetric Hebbian learning rules. Pereira U, Aljadeff J and Brunel N. Memory and Chaos in I 	- · ·

Last update: 12/14/2018

INVITED TALKS

Psychology Department. Pontificia Universidad Católica de Chile, Santiago	11/18
Institute of Neuroscience. University of Oregon, Eugene	10/18
Bernstein Conference, Satellite Workshops. TUB, Berlin	09/18
Neuroscience Program. UIUC, Champaign	
Center for Neural Science. NYU, New York	03/18
Center for Theoretical Neuroscience. Columbia University, New York	
Center for Brain Science. Harvard University, Cambridge	
Workshop on Theoretical Neuroscience. Janelia Research Campus, Ashburn	
Physics Department. Universidad de Chile, Santiago	
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.
- 12. **Pereira U** and Brunel N. Optimal Unsupervised Hebbian Learning Rules For Attractor Neural Networks. COSYNE Poster Presentation. Salt Lake City, EEUU. February 2017.
- 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. **Awarded for best panel presentation.**
- 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.
- Pereira U, Pezzoli M, Bacigalupo J, Sanhueza M. A computational conductancebased 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