# Curriculum Vitae - Ekaterina Gribkova

## **Contact Information**

gribkov2@illinois.edu

### Education

08/2016-present:	Ph.D. Candidate, Neuroscience
	University of Illinois at Urbana-Champaign, Urbana, IL
08/2012-04/2016:	B.S., Mathematics
	B.S., Molecular and Cellular Biology
	University of Illinois at Urbana-Champaign, Urbana, IL

#### Research

01/2018-present	Graduate Researcher, Neuroscience Program
	Computational Neuroscience: Neuron Models of Plasticity,
	Models of Behavior; Scientific Programming
	Research advisor: Dr. Rhanor Gillette
08/2016-01/2018	Graduate Researcher, Neuroscience Program
	Computational Neuroscience: Neuron Models; Electrophysiology;
	Calcium Imaging; Scientific Programming
	Research advisor: Dr. Daniel Llano
02/2014-04/2016	Undergraduate Researcher, Beckman Institute
	Computational Neuroscience: Neuron Information Processing;
	Scientific Programming
	Research advisor: Dr. Daniel Llano

09/2013-02/2014	Undergraduate Researcher, Beckman Institute
	Brain Tissue Processing: Imaging and Histology
	Research advisors: Dr. Daniel Llano and Alexandria Lesicko

# **Teaching Experience**

01/2019-05/2019:	MCB 462 Spring 2019: Integrative Neuroscience
	Teaching Assistant
	Instructors: Rhanor and Martha Gillette
08/2018-12/2018:	MCB 253 Fall 2018: Experimental Techniques in Cell Biology
	Teaching Assistant
	Instructor: Elizabeth Good
01/2018-05/2018	MCB 462 Spring 2018: Integrative Neuroscience
	Teaching Assistant
	Instructors: Rhanor and Martha Gillette
Publications	
Present	<b>Gribkova E. D.</b> , Catanho M., Gillette R. (2018). ASIMOV: A General Computational Model for the Addiction Process. Journal Publication in Preparation.
9/5/2018	<b>Gribkova, E. D.</b> , Ibrahim, B. A. E., & Llano, D. A. (2018). A novel mutual information estimator to measure spike train correlations in a model thalamocortical network. <i>Journal of Neurophysiology</i> . doi:10.1152/jn.00012.2018
2/26/2018	Brown J. W., Caetano-Anollés D., Catanho M., <b>Gribkova E. D.</b> , Ryckman N., Tian K., Voloshin M., Gillette R. (2018). Implementing Goal-Directed Foraging Decisions of a Simpler Nervous System in Simulation. <i>eNeuro</i> , 5(1), ENEURO-0400.
8/19/2015	Willis, A. M., Slater, B. J., <b>Gribkova, E. D.</b> , & Llano, D. A. (2015). Open-loop organization of thalamic reticular nucleus and dorsal thalamus: A computational model. <i>Journal of Neurophysiology</i> , 114(4), 2353-2367.

## Presentations

Local	
2/7/2019	Gribkova E. D., Gillette R. (2019). The emergence of addiction in a computational model of goal-directed foraging. Poster session at the Beckman Institute Open House, Urbana, IL.
10/23/2018	Gribkova E. D., Gillette R. (2018). The emergence of addiction in a computational model of goal-directed foraging. Poster session at Society for Neuroscience Night at the Beckman Institute, Urbana, IL.
10/31/2017	Gribkova E. D., Gillette R. (2017). A novel learning and extinction algorithm enhances goal-directed foraging decisions. Poster session at Society for Neuroscience Night at the Beckman Institute, Urbana, IL.
10/31/2017	Gribkova E. D., Ibrahim B.A., Llano D.A. (2017). A novel mutual information estimator to measure spike train correlations in a model of the thalamocortical network. Poster session at Society for Neuroscience Night at the Beckman Institute, Urbana, IL.
4/13/2017	Gribkova E. D., Ibrahim B.A., Llano D.A. (2017). Computational studies of a thalamocortical network containing the thalamic reticular nucleus, using a novel mutual information estimator to measure network performance. Poster session at the Molecular and Integrative Physiology Retreat, Monticello, IL.
2/9/2017	Gribkova E. D., Ibrahim B.A., Llano D.A. (2017). Computational studies of a thalamocortical network containing the thalamic reticular nucleus, using a novel mutual information estimator to measure network performance. Poster session at the Beckman Institute Open House, Urbana, IL.
4/29/2016	Gribkova E. D., Llano D.A. (2016). Computational studies of a thalamocortical network containing the thalamic reticular nucleus, using a novel mutual information estimator to measure network performance. Poster session at the Molecular and Integrative Physiology Retreat, Monticello, IL.
10/6/2015	Gribkova E. D., Llano D.A. (2015). Computational studies of a thalamocortical network containing the thalamic reticular nucleus, using a novel mutual

information estimator to measure network performance. Poster session at Society for Neuroscience Night at the Beckman Institute, Urbana, IL.

#### National

11/4/2018	Gribkova E. D., Gillette R. (2018). The emergence of addiction in a computational model of goal-directed foraging. Poster session at the Society for Neuroscience 2018, San Diego, CA.
11/14/2017	Gribkova E. D., Gillette R. (2017). A novel learning and extinction algorithm enhances goal-directed foraging decisions in simulation. Poster session at the Society for Neuroscience 2017, Washington, DC.
11/13/2017	Gribkova E. D., Ibrahim B.A., Llano D.A. (2017). A novel mutual information estimator to measure spike train correlations in a model of the thalamocortical network. Poster session at the Society for Neuroscience 2017, Washington, DC.
10/20/2015	Gribkova E. D., Llano D.A. (2015). Computational studies of a thalamocortical network containing the thalamic reticular nucleus, using a novel mutual information estimator to measure network performance. Poster session at the Society for Neuroscience 2015, Chicago, IL.

### **Awards/Honors**

05/2018	Neuroscience Program 2018 Special Recognition Award
	University of Illinois at Urbana-Champaign
05/2016	C. Ladd Prosser Outstanding Achievement Award
	University of Illinois at Urbana-Champaign
05/2016	Graduating with High Distinction in Molecular and Cellular Biology
	University of Illinois at Urbana-Champaign

05/2016	Graduating with Distinction in Mathematics
	University of Illinois at Urbana-Champaign
05/2016	Neuroscience Certificate in the School of Molecular and Cellular Biology
	University of Illinois at Urbana-Champaign
08/2012-05/2016	James Scholar Honors
	University of Illinois at Urbana-Champaign
04/2014-05/2016	Molecular and Cellular Biology Honors Concentration
	University of Illinois at Urbana-Champaign
08/2012 05/2015	Dogo's List
08/2012-03/2013	
	Received for Fall 2012, Spring 2013, Fall 2013, and Spring 2015
	University of Illinois at Urbana-Champaign
Other Activities and I	nterests
2016-present	Computational Neuroscience Journal Club
2017	
2017	Aa noc reviewer jor Frontiers in Neural Circuits
2008-present	Piano, including performance and composition
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Computer Programming, including games and interactive graphic apps

2006-present