Eshin Jolly

Dartmouth College, Dept. of Psychological and Brain Sciences
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Education

Ph.D. Candidate, **Dartmouth College** (anticipated) 2018
Degree: Cognitive Neuroscience
Advisor: Luke J. Chang

B.A., **University of Rochester**, distinction and highest honors in research 2010
Major(s): Brain and Cognitive Science & Psychology; Minor: Music
Advisor(s): Jessica F. Cantlon & Bradford Z. Mahon

Research Experience

Microsoft Research, New York, NY (summer) 2016
Computational Social Science Group
PI: Duncan Watts
Research Intern

Harvard University, Cambridge, MA 2010-2012
Social Cognitive and Affective Neuroscience Lab (SCAN)
PI: Jason P. Mitchell
Lab Manger

University of Rochester, Rochester, NY 2009-2010
Concepts, Actions and Objects Lab (CAOs)
PIs: Jessica F. Cantlon & Bradford Z. Mahon
Honors Thesis Student

Baruch College, New York, NY 2009-2010
Dynamic Learning Lab
PI: Jennifer Mangels
Research Assistant

University of Rochester, Rochester, NY 2008-2010
Mt. Hope Family Center
PI: Sheree Toth
Research Assistant

Publications

Jolly, E. & Chang, L.J. (under review). Gossip drives vicarious learning and facilitates robust social connections.

Rane, S.,* **Jolly, E.**,* Park, A.,* Jang, H.* & Craddock, R.C. (under review). Developing predictive biomarkers using whole-brain classifiers: Application to the ABIDE I dataset.
*Equal contribution

Cheong, J. H.., **Jolly, E.**, Sul, S., Frey &, Chang, L.J. (in press). Computational Models in Social and Affective Neuroscience. To appear in Moustafa, A. (Eds). *Computational Models of Brain and Behavior*.

Chang, L.J. & **Jolly, E.** (in press). Emotions as computational signals of goal error. To appear in A. Fox, R. Lapate, A. Shackman & R. Davidson (Eds.), *The nature of emotions*.

Moran, J.M., **Jolly, E.** & Mitchell, J.P. (2014). Spontaneous mentalizing predicts the fundamental attribution error. *Journal of Cognitive Neuroscience, 26(3)*, 569-576.

Moran, J.M., **Jolly, E.**, & Mitchell, J.P. (2012). Social-cognitive deficits in normal aging. *Journal of Neuroscience, 32(16),* 5553-5561.

Jolly, E. (2011). Testing domain specificity: Conceptual knowledge of living and non-living things. *The Yale Review of Undergraduate Research in Psychology, 2,* 94-118.

Manuscripts in preparation

Jolly, E. & Chang, L.J. (in prep). Overcoming the flatland fallacy: The importance of computational models.

Jolly, E., Gangadharan, A. A. & Chang, L.J. (in prep). Interpersonal decision-making during end-of-life care: A comprehensive review.

Jolly, E., Suri, S. & Watts, D.J. (in prep). Motivating prosocial behavior.

Jolly, E.,* Tamir, D.I.,* Burum, B.A., Gilbert, D.T. & Mitchell, J.P. (in prep). Wanting without enjoying: The social value of sharing experiences.
*Equal contribution

Talks & Presentations

Jolly, E. & Chang, L.J. (2017). *Interpersonal dynamics and the inelasticity of social guilt.* Presentation at the Boston Area Moral Cognition Group, Boston, MA.

Jolly, E., Cheong, J.H. & Chang, L.J. (2017). *Spontaneous impression-formation about parasocial relationships.* Presentation at the Annual Meeting of the Social and Affective Neuroscience Society, Los Angeles, CA.

Jolly, E. (2017). *Introduction to Jupyter Notebooks (and why you should love them!)*. Tutorial at Brainhack Dartmouth College, Hanover, N.H.

Jolly, E. (2017). *Research Methods for Conducting Synchronous Online Experiments.* Guest Lecture at Dartmouth College, Hanover, NH.

Jolly, E. (2017). *Contemporary fMRI pre-processing: Introduction to Nipype and Docker*. Tutorial at Dartmouth College, Hanover, NH.

Jolly, E., Nastase, S. A., Sievers, B., Ma, F. & Huckins, J.F. (2017). *State of the Data: Annual Dartmouth Brain Imaging Center Quality Assurance Report.* Presentation at Dartmouth College, Hanover, NH.

Jolly, E., Suri, S. & Watts, D.J (2016). *Field experiments on human prosociality using Mechanical Turk*. Presentation at Microsoft Research, New York, NY.

Jolly, E. (2016). *Research Methods for Conducting Synchronous Online Experiments.* Guest Lecture at Dartmouth College, Hanover, NH.

Jolly, E. (2016). *The Social Benefits of Gossip*. Guest Lecture at Dartmouth College, Hanover, NH.

Jolly, E. (2016). *The Social Benefits of Gossip*. Presentation at the Social Brain Sciences Brown Bag series at Dartmouth College, NH.

Posters and Conference Proceedings

Cheong, J.H., **Jolly, E.** & Chang, L.J. (2017). *A window into the mind: A computational approach to measuring emotions in response to naturalistic stimuli.* Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Los Angeles, CA.

Jolly, E. & Chang, L.J. (2017). *Gossip drives vicarious learning and facilitates robust social connections.* Poster presented at the Annual Meeting of the Association for Psychological Science, Boston, MA.

Cheong, J.H., **Jolly, E.** & Chang, L.J. (2016). *Psychophysiological intersubject synchrony to naturalistic stimuli.* Poster presented at the Samsung Scholarship Academic Camp, Muju, Korea.

Jolly, E. & Chang, L.J (2016). *Groups, gossip and social dilemmas.* Poster presented at the International Conference on Computational Social Science, Evanston, IL.

Jolly, E., Tamir, D.I. & Mitchell, J.P. (2015). *The social value of sharing experiences.** Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Boston, MA.

**Winner, SANS Graduate Student Poster Award*

Moran, J.M., **Jolly, E.**, & Mitchell, J.P. (2012*). Spontaneous mentalizing supports the fundamental attribution error.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, Chicago, IL.

Peltz, J.S. Toth, S.L., Rogosch, F.A., **Jolly, E.**, & Cicchetti, D. (2010). *Paternal emotional availability's effects on children's socioemotional functioning in maternal depression contexts.* Poster presented at the Annual Meeting of the Association for Psychological Science, Boston, MA.

Awards and Honors

Summer School in Social Neuroscience and Neuroeconomics	2017
SANS Trainee Data Blitz Award	2017
Human Neuroimaging Methods Travel Award	2017
Hack Dartmouth 2nd Place project award	2016
Hack Dartmouth DEN Business Innovation Prize	2016
Neurohackweek Summer School	2016
SANS Graduate Student Poster Award	2015
Dartmouth College Graduate Travel Award	2015
National Science Foundation Graduate Research Fellowship	2013-2016
University of Rochester BCS Dept. Highest Honors in research	2010
University of Rochester Wilder-Trustee Scholarship	2006-2010

Teaching

Experimental Study of Social Behavior (Guest Lecturer)	Dartmouth College 2017
Experimental Study of Social Behavior (Guest Lecturer)	Dartmouth College 2016
Social Psychology (Guest Lecturer)	Dartmouth College 2016
Brain Mapping with functional MRI (TA and Guest Lecturer)	Dartmouth College 2015
Laboratory in Psychological Science* (TA and Guest Lecturer)	Dartmouth College 2015
**Mentored award winning undergraduate group*	
Experimental Design and Methodology (TA and Guest Lecturer)	Dartmouth College 2014
Laboratory in Psychological Science (TA and Guest Lecturer)	Dartmouth College 2013
Introduction to MATLAB for Behavioral Research (ad-hoc workshop)	Harvard University 2011
Mind Perception (ad-hoc workshop)	Harvard University 2011

Technical skills

Programming Languages: Python, MATLAB, Bash, Javascript
Web/Application Development: HTML, CSS, Bootstrap, MeteorJS, Node.js, Docker
Stimulus presentation: Psychophysics toolbox, Psychopy, E-prime, Presentation
Data analysis: scientific-python, scikit-learn, R, MongoDB, lme4, SPSS
Neuroimaging Analysis: FSL, AFNI, SPM, Nipype, Nilearn
Data visualization/sharing: ggplot, matplotlib, D3.js, markdown, git/github

Professional Activities

Ad hoc Reviewer:
Special Interest Group on Human Computer Interaction (SIGCHI)
Frontiers in Psychology
Social Cognitive and Affective Neuroscience
Journal of Personality and Social Psychology

Society Memberships:
Social and Affective Neuroscience Society
Cognitive Neuroscience Society

Leadership and Community Involvement

Dartmouth Brainhack — March 2017
Organizing committee member — Dartmouth College

Neuro-learn: Python tools for brain-imaging analysis — 2016-present
Core Contributor

Introductory Data Analysis with Python — 2016-present
Private Tutor

Social Brain Sciences symposium series at Dartmouth College — 2013-2015
Primary Organizer — Dartmouth College

GWISE Science Day for local middle schools — 2014
Station Leader — Dartmouth College

References

Luke J. Chang
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Jason P. Mitchell
Dept. of Psychology
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Joe M. Moran
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