

Eshin Jolly

Dartmouth College
Dept of Psychological and Brain Sciences
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Currently **Postdoctoral Fellow** 2019–
Cosan Lab, Dartmouth College, Hanover, NH
PI: Luke J. Chang

Education **Dartmouth College**, Hanover, NH 2012–2019
PhD, Cognitive Neuroscience
Thesis: Social Cognitive Maps: A Relational Account of Person Representation and Memory

University of Rochester, Rochester, NY 2006–2010
BA, Brain and Cognitive Science/Psychology
Minor, Music
Thesis: Testing Domain Specificity: Conceptual Knowledge of Living and Non-living Things

Employment **Visiting PhD Researcher** summer 2016
Microsoft Research, New York City, NY
PIs: Duncan Watts & Sid Suri

Lab Manager 2010–2012
Harvard University, Cambridge, MA
PI: Jason P. Mitchell

Research Experience **University of Rochester**, Rochester, NY 2009–2010
PIs: Jessica F. Cantlon & Bradford Z. Mahon
Honors Thesis Student

Baruch College, New York City, NY 2008–2010
PI: Jennifer Mangels
Research Assistant

Mt Hope Family Center, University of Rochester, Rochester, NY 2008–2010
PI: Sheree Toth; Mentor: Jack Peltz
Research Assistant

Manuscripts

Published 2019

Chen, P.A., Cheong, J.H., **Jolly, E.**, Elhence, H., Wager, T.D., Chang, L.J. (2019). Socially transmitted placebo effects. *Nature Human Behavior*. [PDF]

Jolly, E.*, Tamir, D.I.*, Burum, B.A. & Mitchell, J.P. (2019). Wanting without enjoying: The social value of sharing experiences. *PLoS One*, 14(4), e0215318. [PDF]

*Equal contribution

	Jolly, E., & Chang, L.J. (2019). The Flatland Fallacy: Moving Beyond Low Dimensional Thinking. <i>Topics in Cognitive Science</i> , 1-22. [PDF]	
	Jolly, E. (2018). Pymer4: Connecting R and Python for linear mixed modeling. <i>Journal of Open Source Software</i> , 3(31), 862. [PDF]	2018
	Chang, L. J. & Jolly E. (2018). Emotions as computational signals of goal error. In A. Fox, R. Lapate, A. Shackman & R. Davidson (Eds), <i>The Nature of Emotion</i> (343-351). Oxford University Press. [PDF]	
	Cheong, J.C., Jolly, E. , Sul, S. & Chang, L.J. (2017). Computational Models in Social and Affective Neuroscience in Moustafa, A. (Eds), <i>Computational Models of Brain and Behavior</i> (229-245). Hoboken, NJ: Wiley. [Link]	2017
	Rane, S.*, Jolly, E.* , Park, A.*, Jang, H*. & Craddock, R.C. (2017). Developing predictive biomarkers using whole-brain classifiers: Application to the ABIDE I dataset. <i>Research Ideas and Outcomes</i> , 3:e12733. [PDF]. *Equal contribution	
	Moran, J.M., Jolly, E. & Mitchell, J.P. (2014). Spontaneous mentalizing predicts the fundamental attribution error. <i>Journal of Cognitive Neuroscience</i> , 26(3), 569-576. [PDF]	2011-2016
	Moran, J.M., Jolly, E. & Mitchell, J.P. (2012). Social-cognitive deficits in normal aging. <i>Journal of Neuroscience</i> , 32(16), 5553-5561. [PDF]	
	Jolly, E. (2011). Testing domain specificity: Conceptual knowledge of living and non-living things. <i>The Yale Review of Undergraduate Research in Psychology</i> , 2, 94-118. [PDF]	
Under review/revision	Gao, X., Jolly, E. , Yu, H., Liu, H., Zhou, X., Chang, L. J. (under review). The hidden cost of receiving favors: A theory of indebtedness. bioRxiv	
	Jolly, E. & Chang, L.J. (under review). Gossip drives vicarious learning and facilitates robust social connections. psyArXiv	
	Chang, L.J., Jolly, E. , Cheong, J.H., Rapuano, K., Greenstein, N., Chen, P.A. & Manning, J.R. (under revision). Endogenous variation in ventromedial prefrontal cortex state dynamic during naturalistic viewing reflects affective experience. bioRxiv	
	Chen, P. H. A., Jolly, E. , Cheong, J. H. & Chang, L. J. (under review). Inter-subject representational similarity analysis reveals individual variations in affective experience when watching erotic movies. bioRxiv .	
In Prep	Jolly, E. , Cheong, J.C. & Chang, L.J. (in prep). Neural models reflect spontaneous impression formation about parasocial relationships.	
	Jolly, E. , Sadhukha, S., Cheong, J.C. & Chang, L.J. (in prep). Measuring the efficacy and cost-benefit ratio of custom-molded head cases for use in MRI.	
	Jolly, E. , Smith A., Gangadharan, A.A., Hoidal, A.S. & Chang, L.J. (in prep). Guilt-aversion motivates harm-minimization in surrogate decision-making.	
	Jolly, E. , Gangadharan, A.A. & Chang, L.J. (in prep). Interpersonal decision-making during end-of-life care: A comprehensive review	
Talks & Presentations	Introduction to Git and Github. Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.	2019
	Introduction to Git and Github. Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.	2018

Introduction to Jupyter Notebooks for Interactive Data Analysis. Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.	2018
Introduction to functional alignment methods for fMRI. Lecture at Sao Paulo School of Advanced Science on Social and Affective Neuroscience. Sao Paulo, Brazil.	2018
The Social Benefits of Gossip Presentation at the New England Research on Decision-Making conference, Brown University, Providence, RI.	2017
Computational tools for neuroscience: Containers and Jupyter Notebooks. Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.	2017
Introduction to Singularity: Running containers on a HPC. Tutorial at Graduate research roundtable workshop, Dartmouth College, Hanover, NH.	2017
Introduction to git and github for psychologists. Presentation at the Reproducible Psychological Science workshop at the Annual Meeting for the Association for Psychological Science, Boston, MA.	2017
Interpersonal dynamics and the inelasticity of social guilt. Presentation at the Boston Area Moral Cognition Group, Boston, MA.	2017
Interpersonal dynamics and the inelasticity of social guilt. Presentation at Affectiva, Boston, MA.	2017
Spontaneous impression-formation about parasocial relationships. Presentation at the Annual Meeting of the Social and Affective Neuroscience Society, Los Angeles, CA.	2017
Introduction to Jupyter Notebooks (and why you should love them!). Tutorial at Brainhack Dartmouth College, Hanover, N.H.	2017
Research Methods for Conducting Synchronous Online Experiments. Guest Lecture at Dartmouth College, Hanover, NH.	2017
Contemporary fMRI pre-processing: Introduction to Nipype and Docker. Tutorial at Dartmouth College, Hanover, NH.	2017
State of the Data: Annual Dartmouth Brain Imaging Center Quality Assurance Report. Presentation at Dartmouth College, Hanover, NH.	2017
Field experiments on human prosociality using Mechanical Turk. Presentation at Microsoft Research, New York, NY.	2016
Research Methods for Conducting Synchronous Online Experiments. Guest Lecture at Dartmouth College, Hanover, NH.	2016
The Social Benefits of Gossip. Guest Lecture at Dartmouth College, Hanover, NH.	2016
The Social Benefits of Gossip. Presentation at the Social Brain Sciences Brown Bag series at Dartmouth College, NH.	2016

Posters & Conference Proceedings

Jolly, E. & Chang, L.J. (2019). Gossip drives vicarious learning and facilitates robust social connections. Poster presented at Social and Affective Neuroscience Society meeting, Miami, FL.	2019
Cheong, J.C., Chen, P.A., Jolly, E. , Elhence, H., Wager, T.D., Chang, L.J. (2019). Socially transmitted placebo effects.	2019

Poster presented at Society for Affective Science meeting, Boston, MA.	
Jolly, E. , Reddan, M.C., Gianaros, P.J., Manuck, S.M. Chang, L.J., Wager, T.D. (2018). NeuroLIME: A novel tool for explaining the predictions of complex brain models.	2018
Poster presented at Social and Affective Neuroscience Society meeting, New York, NY.	
Reddan, M.C., Jolly, E. , Wager, T.D. (2018). NeuroLIME: A novel tool for explaining the predictions of nonlinear neuroimaging classifiers.	2018
Poster presented at the Organization for Human Brain Mapping meeting, Singapore, Singapore.	
Reddan, M.C., Jolly, E. , Wager, T.D. (2018). NeuroLIME: A novel tool for explaining the predictions of nonlinear neuroimaging classifiers.	2018
Poster presented at the Computational and Systems Neuroscience meeting, Denver, CO.	
Jolly, E. & Chang, L.J. (2017). Gossip drives vicarious learning and facilitates robust social connections.	2017
Poster presented at the Annual Meeting of the Association for Psychological Science, Boston, MA.	
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.	2017
Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Los Angeles, CA.	
Jolly, E. & Chang, L.J (2016). Groups, gossip and social dilemmas.	2016
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.*	2015
*Winner, SANS Graduate Student Poster Award	
Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Boston, MA.	
Moran, J.M., Jolly, E. , & Mitchell, J.P. (2012). Spontaneous mentalizing supports the fundamental attribution error.	2012
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.	2010
Poster presented at the Annual Meeting of the Association for Psychological Science, Boston, MA.	

Awards	Kavli Summer Institute in Cognitive Neuroscience	2019
	Dartmouth Thayer Consulting Case Competition 1st Place	2019
	Hack Dartmouth Finalist	2019
	Hack Dartmouth Best Community Hack	2018
	Sao Paulo Summer School on Social and Affective Neuroscience (SPSAN)	2018
	Dartmouth Graduate Arts and Science Travel Award	2018
	Dartmouth PBS Graduate Travel Award	2018
	Neukom Institute Travel Award	2018
	Dartmouth Graduate Alumni Research Award	2017
	Dartmouth PBS Graduate Travel Award	2017

	Methods in Neuroscience Computational Summer School	2017
	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 PBS 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 Wilde-Trustee Scholarship	2006–2010
Teaching	Functional Alignment Techniques in fMRI (Guest Lecturer) Mackenzie Presbyterian University, SPSAN, Sao Paulo, Brazil	2018
	Methods in Neuroscience Computational Summer School (TA) Dartmouth College	2018
	Methods in Neuroscience Computational Summer School (TA) Dartmouth College	2017
	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) *Mentored award winning undergraduate group Dartmouth College	2015
	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	
Mentorship	Maryam Iqbal '21 Presidential Scholar/Honors Thesis Dartmouth College	2017–
	Nathan P. Greenstein '19 Presidential Scholar Dartmouth College	2017–2019
	Sushmita Sadhukua '18 Full-time Research Assistant Dartmouth College	2017–2019

Arati A. Gangadharan '18	2015-2018
Honors Thesis	
Dartmouth College	
Hirsh Elhence '17	2015-2017
Presidential Scholar	
Dartmouth College	

Technical Skills

Programming Languages

Python, R, Matlab, Javascript, Bash

Frontend Web Development

HTML, CSS, Bootstrap, Bulma, Vue, Svelte

Backend/Fullstack/App Development

Node, Express, Meteor, MongoDB, Firebase, Flask, Electron

Stimulus Presentation

Psychopy, Psychophysics toolbox, E-prime, Presentation

Data Analysis

Scientific-Python, Statsmodels, Scikit-learn, Lme4

Neuroimaging Analysis

FSL, AFNI, SPM, Nipype, Nilearn

Data Visualization

Seaborn/Matplotlib, D3, Dash/Plotly, ggplot

Dev Ops

Git/Github, TravisCI, Tox, Pytest, Moab-Torque

Professional Activities

Reviewer

Journal of Open Source Software, Neuroimage, PLoS One
ad-hoc: Nature Communications, Special Interest Group on Human Computer Interaction (SIGCHI), Frontiers in Psychology, Social Cognitive Affective Neuroscience, Journal of Personality and Social Psychology,

Society Memberships

Social and Affective Neuroscience Society, Society for Affective Science, Organization for Human Brain Mapping

Leadership & Community

DALI Lab ([LineAtKAF Project](#))

Partner, Dartmouth College

[Pymer4](#)

Project Lead, Open Source Software

[Neuro-learn](#)

Core Contributor, Open Source Software

Web and Desktop Application Development

Freelance Software Consultant

Introductory data analysis with Python

Private Tutor

Dartmouth Brainhack

Organizing committee member, Dartmouth College

Social Brain Sciences Symposium talk series

Primary Organizer, Dartmouth College

Social Area Graduate Student Representative

Graduate Representative, Dartmouth College

2017-Present

2017-Present

2016-Present

2017-Present

2016-Present

2017

2013-2015

2013-2015

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