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

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] 2019

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. Topics in Cognitive Science, 1-22. [PDF]

Jolly, E. (2018). Pymer4: Connecting R and Python for linear mixed modeling. Journal of Open Source Software, 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), The Nature of Emotion (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), Computational Models of Brain and Behavior (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. Research Ideas and Outcomes, 3:e12733. [PDF]. *Equal contribution

Moran, J.M., **Jolly, E.** & Mitchell, J.P. (2014). Spontaneous mentalizing predicts the fundamental attribution error. Journal of Cognitive Neuroscience, 26(3), 569-576. [PDF] 2011-2016

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

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. [PDF]

Under review/revision

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. 2019
Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.

Introduction to Git and Github. 2018
Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.

Introduction to Jupyter Notebooks for Interactive Data Analysis. 2018
Lecture at Methods in Neuroscience Computational Summer School,

Dartmouth College, Hanover, NH.

Introduction to functional alignment methods for fMRI. 2018
Lecture at Sao Paulo School of Advanced Science on Social and Affective Neuroscience. Sao Paulo, Brazil.

The Social Benefits of Gossip 2017
Presentation at the New England Research on Decision-Making conference, Brown University, Providence, RI.

Computational tools for neuroscience: Containers and Jupyter Notebooks. 2017
Lecture at Methods in Neuroscience Computational Summer School, Dartmouth College, Hanover, NH.

Introduction to Singularity: Running containers on a HPC. 2017
Tutorial at Graduate research roundtable workshop, Dartmouth College, Hanover, NH.

Introduction to git and github for psychologists. 2017
Presentation at the Reproducible Psychological Science workshop at the Annual Meeting for the Association for Psychological Science, Boston, MA.

Interpersonal dynamics and the inelasticity of social guilt. 2017
Presentation at the Boston Area Moral Cognition Group, Boston, MA.

Interpersonal dynamics and the inelasticity of social guilt. 2017
Presentation at Affectiva, Boston, MA.

Spontaneous impression-formation about parasocial relationships. 2017
Presentation at the Annual Meeting of the Social and Affective Neuroscience Society, Los Angeles, CA.

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

Research Methods for Conducting Synchronous Online Experiments. 2017
Guest Lecture at Dartmouth College, Hanover, NH.

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

State of the Data: Annual Dartmouth Brain Imaging Center Quality Assurance Report. 2017
Presentation at Dartmouth College, Hanover, NH.

Field experiments on human prosociality using Mechanical Turk. 2016
Presentation at Microsoft Research, New York, NY.

Research Methods for Conducting Synchronous Online Experiments. 2016
Guest Lecture at Dartmouth College, Hanover, NH.

The Social Benefits of Gossip. 2016
Guest Lecture at Dartmouth College, Hanover, NH.

The Social Benefits of Gossip. 2016
Presentation at the Social Brain Sciences Brown Bag series at Dartmouth College, NH.

Posters & Conference Proceedings

Jolly, E. & Chang, L.J. (2019). Gossip drives vicarious learning and facilitates robust social connections. 2019
Poster presented at Social and Affective Neuroscience Society meeting, Miami, FL.

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) 2017-Present
Partner, Dartmouth College

Pymer4 2017-Present
Project Lead, Open Source Software

Neuro-learn 2016-Present
Core Contributor, Open Source Software

Web and Desktop Application Development 2017-Present
Freelance Software Consultant

Introductory data analysis with Python 2016-Present
Private Tutor

Dartmouth Brainhack 2017
Organizing committee member, Dartmouth College

Social Brain Sciences Symposium talk series 2013-2015
Primary Organizer, Dartmouth College

Social Area Graduate Student Representative 2013-2015
Graduate Representative, Dartmouth College

GWISE Science day for local middle schools 2014
Station Leader, Dartmouth College

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Last updated: November 2019