Eshin Jolly

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Currently	**Postdoctoral Fellow** Cosan Lab, Dartmouth College, Hanover, NH PI: Luke J. Chang	2019-
Education	**Dartmouth College**, Hanover, NH PhD, Cognitive Neuroscience Thesis: Social Cognitive Maps: A Relational Account of Person Representation and Memory	2012-2019
	University of Rochester, Rochester, NY BA, Brain and Cognitive Science/Psychology Minor, Music Thesis: Testing Domain Specificity: Conceptual Knowledge of Living and Non-living Things	2006-2010
Employment	**Visiting PhD Researcher** Microsoft Research, New York City, NY PIs: Duncan Watts & Sid Suri	summer 2016
	Lab Manager Harvard University, Cambridge, MA PI: Jason P. Mitchell	2010-2012
Research Experience	**University of Rochester**, Rochester, NY PIs: Jessica F. Cantlon & Bradford Z. Mahon Honors Thesis Student	2009-2010
	Baruch College, New York City, NY PI: Jennifer Mangels Research Assistant	2008-2010
	Mt Hope Family Center, University of Rochester, Rochester, NY PI: Sheree Toth; Mentor: Jack Peltz Research Assistant	2008-2010

Manuscripts

Under review/revision

Jolly, E.*, Sadhukha, S.*, Cheong, J.C. & Chang, L.J. (submitted). Custom-molded headcases have limited efficacy in reducing head motion for fMRI. [OSF](#)
*Equal contribution

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., Smith A., Gangadharan, A.A., Hoidal, A.S. & Chang, L.J. (in prep). Guilt-aversion motivates harm-minimization in surrogate decision-making.

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, 3, 1295-1305. [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. Topics in Cognitive Science, 1-22. [PDF]

2018

Jolly, E. (2018). Pymer4: Connecting R and Python for linear mixed modeling. Journal of Open Source Software, 3(31), 862. [PDF]

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]

2017

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]

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

2011–2016

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]

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]

Talks & Presentations

Spontaneous Neural Representations of Social Relationships in Naturalistic Contexts.

2020

Symposium Talk at Society for Affective Science, San Francisco, CA.
(conference cancelled)

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   2017
Report.
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.

Jolly, E. & Chang, L.J. (2019). Spontaneous Neural Representations of Social Relationships in Naturalistic Contexts.*
*Winner, SANS Poster Award
Poster at Social Affective Neuroscience Society meeting, Santa Barbara, CA. (conference cancelled). — 2020

Jolly, E. & Chang, L.J. (2019). Gossip drives vicarious learning and facilitates robust social connections.
Poster 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.
Poster at Society for Affective Science meeting, Boston, MA. — 2019

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.
Poster at Social and Affective Neuroscience Society meeting, New York, NY. — 2018

Reddan, M.C., **Jolly, E.**, Wager, T.D. (2018). NeuroLIME: A novel tool for explaining the predictions of nonlinear neuroimaging classifiers.
Poster at the Organization for Human Brain Mapping meeting, Singapore, Singapore. — 2018

Reddan, M.C., **Jolly, E.**, Wager, T.D. (2018). NeuroLIME: A novel tool for explaining the predictions of nonlinear neuroimaging classifiers.
Poster at the Computational and Systems Neuroscience meeting, Denver, CO. — 2018

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

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 the Annual Meeting of the Social and Affective Neuroscience Society, Los Angeles, CA. — 2017

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

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

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

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 at the Annual Meeting of the Association for Psychological Science, Boston, MA. — 2010

Awards

Social Affective Neuroscience Society Poster Award — 2020

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
Social Affective Neuroscience Society 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
Social Affective Neuroscience Society 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 Honors Thesis Dartmouth College	2015–2018
	Hirsh Elhence '17 Presidential Scholar Dartmouth College	2015–2017

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	2017–Present
Pymer4 **Project Lead**, Open Source Software	2017–Present

<u>Neuro-learn</u>   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: March 2020