Eshin Jolly

Dartmouth College
Dept of Psychological and Brain Sciences
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Currently	Postdoctoral Fellow Cosan Lab, Dartmouth College, Hanover, NH	2019-
	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 Microsoft Research, New York City, NY	summer 2016
	Pls: Duncan Watts & Sid Suri	
	Lab Manager Harvard University, Cambridge, MA	2010-2012
	PI: Jason P. Mitchell	
Research Experience	University of Rochester, Rochester, NY	2009-2010
	Pls: Jessica F. Cantlon & Bradford Z. Mahon Honors Thesis Student	
	Baruch College, New York City, NY	2008-2010
	Pl: Jennifer Mangels Research Assistant	
	Mt Hope Family Center, University of Rochester, Rochester, NY	2008-2010
	Pl: Sheree Toth; Mentor: Jack Peltz	

Manuscripts

Under review/revision

Jolly, E.*, Sadhukha, S.*, Cheong, J.C. & Chang, L.J. (under review). Custom-molded headcases have limited efficacy in reducing head motion for fMRI.

OSF

*Equal contribution

Research Assistant

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. <u>bioRxiv</u>

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 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. 2020 Chen, P. H. A., Jolly, E., Cheong, J. H. & Chang, L. J. (2020). Intersubject representational similarity analysis reveals individual variations in affective experience when watching erotic movies. NeuroImage, 116851. [PDF] 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]

In Prep

Published

Spontaneous Neural Representations of Social Relationships in Naturalistic Contexts. Symposium Talk at Society for Affective Science, San Francisco, CA.	2020
(conference cancelled)	
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
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.	2020
(conference cancelled). 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.	2018
Poster 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. 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.	2010

maternal depression contexts.

Posters & Conference

Proceedings

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

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	

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

SCAN, JOSS, Neurolmage, PLoS One

ad-hoc: Nature Communications, SIGCHI, Frontiers in Psych, JPSP

Society Memberships

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

Leadership & Community

Code for America

Member, Code for Upper Valley Brigade

<u>Line@ Project</u> Co-Founder , Dartmouth College	2017-Present
<u>Pymer4</u> Project Lead , Open Source Software	2017-Present
Neuro-learn Core Contributor, Open Source Software	2016-Present
Web and Desktop Application Development Freelance Software Developer	2017-Present
Introductory data analysis with Python Private Tutor	2016-Present
Dartmouth Brainhack Organizing committee member, Dartmouth College	2017
Social Brain Sciences Symposium talk series Primary Organizer , Dartmouth College	2013-2015
Social Area Graduate Student Representative Graduate Representative, Dartmouth College	2013-2015
GWISE Science day for local middle schools Station Leader, Dartmouth College	2014

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Last updated: April 2020