

# Eshin Jolly

Dartmouth College

Dept of Psychological and Brain Sciences

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## Currently

### Postdoctoral Fellow

2020-Present

Consortium for Interacting Minds

Center for Cognitive Neuroscience

*Dartmouth College (Hanover, NH)*

Mentors: [Luke Chang](#), [Thalia Wheatley](#), [Emily Finn](#), [Jeremy Manning](#)

## Education & Training

### PhD, Cognitive Neuroscience

2012-2019

NSF Graduate Fellow

*Dartmouth College (Hanover, NH)*

Thesis: Social Cognitive Maps: A Relational Account of Person Representation and Memory

Committee: [Luke Chang](#), [Thalia Wheatley](#), [Jeremy Manning](#), [Janice Chen](#)

### BA, Brain and Cognitive Science; Psychology

2006-2010

Minor: Music & Jazz Performance

*University of Rochester (Rochester, NY)*

Thesis: Testing Domain Specificity: Conceptual Knowledge of Living and Non-living Things

Committee: [Jessica Cantlon](#), [Brad Mahon](#), [Elissa Newport](#)

### Microsoft Research PhD Intern

2016

*MSR Computational Social Science Group (NYC, NY)*

PIs: [Duncan Watts](#) & [Sid Suri](#)

### Lab Manager

2010-2012

*Harvard University (Cambridge, MA)*

PI: [Jason Mitchell](#)

### Research Assistant

2008-2010

*Baruch College (NYC, NY)*

PI: [Jennifer Mangels](#)

### Research Assistant

*Mt Hope Family Center, University of Rochester (Rochester, NY)*

PIs: [Sheree Toth](#) & [Jack Peltz](#)

## Industry Consulting

### Senior UX/UI Engineer & Designer

2023-Present

[MoreMore AI](#)

*Film & media arts startup*

### Co-Founder & CTO; Scientific Advisor

2020-Present


[Parsnip.ai](#)

*Food and ed-tech startup*

	<b>Scientific Advisor</b> <u>The Sukhi Project</u> <i>Employee well-being and mental health startup</i>	2020
	<b>Project Manager; Technical Support Lead</b> <u>Code for America (Upper Valley Brigade)</u> <i>Rural Internet Project</i>	2019–Present
Funding	<b>Postdoctoral Fellow</b> <i>National Science Foundation</i> , Career Award 1848370 (\$886,457, PI: Luke Chang) Neural and computational basis of guilt in decision-making (co-written)	2019–Present
	<b>Graduate Fellow</b> <i>National Science Foundation</i> , Graduate Research Fellowship (\$90,000) Uncovering the representation of self: A multivariate approach	2013–2016
Manuscripts In Prep	<b>Jolly, E.</b> , Chang, L.J. (in prep). Neural encoding and reinstatement of social motifs.  <b>Jolly, E.</b> , Ranger, M.S. & Chang, L.J. (in prep). The neural basis of guilt diffusion in interpersonal harm-minimization.  <b>Jolly, E.</b> , Smith A., Gangadharan, A.A., Hoidal, A.S. & Chang, L.J. (in prep). Guilt-aversion motivates harm-minimization in surrogate decision-making.	
Under review/revision	<b>Jolly, E.</b> , Sadhukha, S., Iqbal, M., Molani, Z., Walsh, T.M., Manning, J.R., & Chang, L.J. (under review). People are represented and remembered through their relationships with others. [ <a href="#">psyarxiv preprint</a> ]  Gao, X., <b>Jolly, E.</b> , Yu, H., Liu, H., Zhou, X., & Chang, L.J. (under revision). The hidden cost of receiving favors: A theory of indebtedness. [ <a href="#">bioRxiv preprint</a> ]	
Published	<b>Jolly, E.*</b> , Cheong, J.H.*, Xie, T.*, Byrne, S. Kenny, M., & Chang, L.J. (2023). Py-Feat: Python Facial Expression Analysis Toolbox. <i>Affective Science</i> . [ <a href="#">Link</a> ] [ <a href="#">toolbox</a> ] *Equal contribution	2023
	<b>Jolly, E.</b> , Farrens, M., Greenstein, N., Eisenbarth, H., Reddan, M.C., Andrew, E., Wager, T.D., & Chang, L.J. (2022). Recovering individual emotional states from sparse ratings using collaborative filtering. <i>Affective Science</i> . [ <a href="#">Link</a> ] [ <a href="#">toolbox</a> ] [ <a href="#">data &amp; materials</a> ]	2022
	<b>Jolly, E.</b> & Chang, L.J. (2021). Multivariate spatial feature selection in fMRI. <i>Social Cognitive and Affective Neuroscience</i> , 16(8), 795-806. [ <a href="#">Link</a> ]	2021
	<b>Jolly, E.</b> & Chang, L.J. (2021). Gossip drives vicarious learning and facilitates social connections. <i>Current Biology</i> , 31, 1-11. [ <a href="#">Link</a> ] [ <a href="#">data &amp; materials</a> ] Coverage: <a href="#">New York Times</a> , <a href="#">VPR News</a> , <a href="#">PNAS Journal Club</a>	
	Chang, L.J., <b>Jolly, E.</b> , Cheong, J.H., Rapuano, K., Greenstein, N., Chen, P.A., & Manning, J.R. (2021). Endogenous variation in ventromedial prefrontal cortex state dynamics during naturalistic viewing reflects affective experience. <i>Science Advances</i> , 7(17), 1-17. [ <a href="#">Link</a> ] [ <a href="#">data &amp; materials</a> ]	

- Jolly, E.\***, Sadhukha, S.\*, & Chang, L.J. (2020). Response to Lynch et al: On measuring head motion and effects of head molds during fMRI. *NeuroImage*, 117484. [[Link](#)] [[data & materials](#)] 2020
- Jolly, E.\***, Sadhukha, S.\*, & Chang, L.J. (2020). Custom-molded headcases have limited efficacy in reducing head motion during naturalistic fMRI experiments. *NeuroImage*, 117207. [[Link](#)] [[data & materials](#)]
- \*Equal contribution
- 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](#)] [[data & materials](#)]
- Chen, P.H.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](#)] [[data & materials](#)] 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](#)] [[data & materials](#)] \*Equal contribution
- Jolly, E.**, & Chang, L.J. (2019). The Flatland Fallacy: Moving Beyond Low Dimensional Thinking. *Topics in Cognitive Science*, 1-22. [[PDF](#)] [[figure & simulation code](#)]
- Jolly, E.** (2018). Pymer4: Connecting R and Python for linear mixed modeling. *Journal of Open Source Software*, 3(31), 862. [[PDF](#)] [[documentation site](#)] 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](#)]

[\[Documentation\]](#) [\[Slides\]](#) [\[Github\]](#)


 [Downloads](#)

### **Neighbors**

2020–Present

*Predicting affective responses from sparse measurement data, (Project Author)*

[\[Documentation\]](#) [\[Github\]](#)

 [Downloads](#)

### **SvelteTurk**

*Graphical User Interface for managing experiments on Mturk, (Project Author)*

[\[Documentation\]](#) [\[Github\]](#)

### **Pymer4**

2017–Present

*Statistics library for estimating linear mixed-effects models, (Project Author)*

[\[Documentation\]](#) [\[Github\]](#)

 [Downloads](#)

### **Nltools**

2016–Present

*Toolbox for intuitively analyzing neuroimaging data, (Core Developer)*

[\[Documentation\]](#) [\[Video Talk\]](#) [\[Github\]](#)

 [Downloads](#)

## **Invited Talks & Presentations**

Representing and remembering people through their relationships.

2023

*Invited talk at the MIND Summer School, Dartmouth College (Hanover, NH)*

The structure of social memory: People as contexts.

*Presentation at the Social and Affective Neuroscience Society conference (Santa Barbara, CA)*

Navigating the social world: A relational account of how we represent, remember, and talk about people.

*Invited talk at Stanford University (Stanford, CA)*

People as contexts: A relational account of person representation and memory.

*Invited talk for Innovators in Cognitive Neuroscience (virtual).*

Spontaneous Neural Representations of Social Relationships in Naturalistic Contexts.

2022

*Symposium presentation at the International Society for Research on Emotion, USC (Los Angeles, CA)*

Emotion and Social Perception in Naturalistic Contexts: Perspectives from Affective Computing and Affective Neuroscience.

*Symposium organizer at the International Society for Research on Emotion, USC (Los Angeles, CA)*

Social Cognitive Maps: A Relational Account of Person Representation and Memory.

2020

*Invited talk at Harvard University (Cambridge, MA)*

Why Design Abstractions Matters for Analytics Tools: Neuroimaging analysis with Neuro-Learn. [\[Video\]](#)

*Symposium presentation at the Scientific Computing with Python conference (virtual)*

Spontaneous Neural Representations of Social Relationships in Naturalistic Contexts.

*Symposium presentation at the Society for Affective Science conference (San Francisco, CA; cancelled due to COVID-19).*

Methodological challenges in contemporary fMRI studies.  
*Invited talk at the Neuroimaging Analysis Methods meeting, Princeton University (Princeton, NJ)*

Introduction to functional alignment methods for fMRI. 2018  
*Invited lecture at the Sao Paulo School of Advanced Science on Social and Affective Neuroscience (Sao Paulo, Brazil)*

Naturalistic approaches towards an understanding of social reasoning and communication. 2017  
*Invited talk at Stanford University (Stanford, CA)*

The social benefits of gossip  
*Presentation at the New England Research on Decision-Making conference, Brown University (Providence, RI)*

Introduction to Git and Github for psychologists.  
*Invited talk 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.  
*Invited talk at the Boston Area Moral Cognition Group (Boston, MA)*

Interpersonal dynamics and the inelasticity of social guilt.  
*Invited talk at Affectiva Inc (Boston, MA)*

Spontaneous impression-formation about parasocial relationships.  
*Presentation at the Social and Affective Neuroscience Society conference (Los Angeles, CA)*

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

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

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

## Posters & Conference Proceedings

**Jolly, E.,** Sadhukha, S., Iqbal, M., Molani, Z., Walsh, T.M., Manning, J.R., & Chang, L.J. 2023  
(2023). The structure of social memory: People as contexts. 2023  
*Poster at the Social and Affective Neuroscience Society conference (Santa Barbara, CA)*

Kwon, D., **Jolly, E.,** Chang, L.J., & Shim, W.M. (2023). Neural representations of dynamic social interactions.  
*Poster at the 26th Annual Meeting of the Korean Society for Brain and Neural Sciences (Busan, Korea)*

**Jolly, E.,** Farrens, M., Greenstein, N., Eisenbarth, H., Reddan, M.C., Andrew, E., Wager, T.D., & Chang, L.J. (2022). Recovering individual emotional states from sparse ratings using collaborative filtering. 2022  
*Poster at the Society for Affective Science conference (virtual)*

**Jolly, E.** & Chang, L.J. (2021). Spontaneous Neural Representations of Social Relationships in Naturalistic Contexts. 2021

*Poster at the Social and Affective Neuroscience Society conference (virtual)*

**Winner Poster Award**

**Jolly, E.** (2020). Pymer4: Bringing R's Powerful Mixed-modeling to Python.

2020

*Poster at the Scientific Computing with Python conference (virtual)*

**Winner Scipy Scholarship**

**Jolly, E.** & Chang, L.J. (2019). Gossip drives vicarious learning and facilitates robust social connections.

2019

*Poster at the Social and Affective Neuroscience Society conference (Miami, FL)*

Cheong, J.C., Chen, P.A., **Jolly, E.**, Elhence, H., Wager, T.D., & Chang, L.J. (2019). Socially transmitted placebo effects.

*Poster at the Society for Affective Science conference (Boston, MA)*

**Jolly, E.**, Reddan, M.C., Gianaros, P.J., Manuck, S.M. Chang, L.J., & Wager, T.D. (2018).

2018

NeuroLIME: A novel tool for explaining the predictions of complex brain models.

*Poster at the Social and Affective Neuroscience Society conference (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 conference (Singapore, Singapore)*

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 conference (Denver, CO)*

**Jolly, E.** & Chang, L.J. (2017). Gossip drives vicarious learning and facilitates robust social connections.

2017

*Poster 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.

*Poster the Social and Affective Neuroscience Society conference (Los Angeles, CA)*

**Jolly, E.** & Chang, L.J. (2016). Groups, gossip and social dilemmas.

2016

*Poster 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

*Poster at the Social and Affective Neuroscience Society conference (Boston, MA)*

**Winner Poster Award**

Moran, J.M., **Jolly, E.**, & Mitchell, J.P. (2012). Spontaneous mentalizing supports the fundamental attribution error.

2012

*Poster at the Cognitive Neuroscience Society conference (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 at the Annual Meeting of the Association for Psychological Science (Boston, MA)*

**Teaching**

**Introduction to facial expression analysis with py-feat**

2023

Tutorial at the Consortium for Interacting Minds

*Dartmouth College (Hanover, NH) [Slides]*

**Introduction to version control for neuroscientists**

2019

Lecture at MIND Summer School

*Dartmouth College (Hanover, NH)*

**Introduction to version control for neuroscientists**

2018

Lecture at MIND Summer School  
*Dartmouth College (Hanover, NH)*

**Computational tools for neuroscience: jupyter notebooks**

Lecture at MIND Summer School  
*Dartmouth College (Hanover, NH)*

**Functional Alignment Techniques in fMRI**

Lecture at Sao Paulo Summer School on Social and Affective Neuroscience (SPSAN)  
*Mackenzie Presbyterian University (Sao Paulo, Brazil)*

**Computational tools for neuroscience: Containers and jupyter notebooks**

2017

Lecture at MIND Summer School  
*Dartmouth College (Hanover, NH)*

**Introduction to Singularity: Running containers on a HPC**

Lecture at MIND Summer School  
*Dartmouth College (Hanover NH)*

**Introduction to Git and Github for social psychologists**

Lecture at the Reproducible Psychological Science workshop  
*Annual Meeting for the Association for Psychological Science (Boston, MA)*

**Introduction to jupyter notebooks (and why you should love them!)**

Tutorial at BrainHack Local  
*Dartmouth College (Hanover, NH)*

**Online research methods for the experimental study of social behavior**

Research Methods, Guest Lecturer  
*Dartmouth College (Hanover, NH)*

**Online research methods for the experimental study of social behavior**

2016

Research Methods, Guest Lecturer  
*Dartmouth College (Hanover, NH)*

**The social benefits of gossip**

Social Psychology, Guest Lecturer  
*Dartmouth College (Hanover, NH)*

**Contemporary fMRI pre-processing: Introduction to Nipype and Docker**

fMRI Methods, Guest Lecturer  
*Dartmouth College (Hanover, NH)*

**fMRI Methods: Brain Mapping with functional MRI**

2015

Course TA and Guest Lecturer  
*Dartmouth College (Hanover, NH)*

**Research Methods: Laboratory in Psychological Science\***

Course TA and Guest Lecturer  
\*Mentored award winning undergraduate group  
*Dartmouth College (Hanover, NH)*

**Introductory Statistics: Experimental Design and Methodology**

2014

Course TA and Guest Lecturer  
*Dartmouth College (Hanover, NH)*

	<b>Research Methods: Laboratory in Psychological Science</b> Course TA and Guest Lecturer <i>Dartmouth College (Hanover, NH)</i>	2013
	<b>Introduction to MATLAB for Behavioral Research</b> Workshop organizer <i>Harvard University (Cambridge, MA)</i>	2011
	<b>Mind Perception</b> Workshop organizer <i>Harvard University (Cambridge, MA)</i>	
<b>Awards</b>	ICN Talk Award <i>Innovators in Cognitive Neuroscience</i>	2023
	Trainee Data Blitz Award <i>Social and Affective Neuroscience Society</i>	
	Complex Systems Summer School (CSSS) <i>Santa Fe Institute</i>	2022
	Mistletoe Research Fellowship finalist <i>Dartmouth College</i>	2021
	SciPy Scholarship Award <i>Scientific Computing with Python Conference</i>	2020
	Poster Award <i>Social and Affective Neuroscience Society</i>	
	Kavli Summer Institute in Cognitive Neuroscience <i>UC Santa Barbara</i>	2019
	Thayer Consulting Case Competition 1st Place <i>Thayer School of Engineering, Dartmouth College</i>	
	Hack Dartmouth Finalist <i>Dartmouth College</i>	
	Hack Dartmouth Best Community Hack <i>Dartmouth College</i>	2018
	Sao Paulo Summer School on Social and Affective Neuroscience (SPSAN) <i>Mackenzie Presbyterian University, Sao Paulo</i>	
	Graduate Arts and Science Travel Award <i>Dartmouth College</i>	
	PBS Graduate Travel Award <i>Dartmouth College</i>	
	Neukom Institute Travel Award <i>Dartmouth College</i>	
	Graduate Alumni Research Award <i>Dartmouth College</i>	2017
	PBS Graduate Travel Award <i>Dartmouth College</i>	



Methods in Neuroscience Computational Summer School  
*Dartmouth College*

Summer School in Social Neuroscience and Neuroeconomics  
*Duke University*

Trainee Data Blitz Award  
*Social and Affective Neuroscience Society*

Human Neuroimaging Methods Travel Award  
*Organization for Human Brain Mapping*

Hack Dartmouth 2nd Place project award 2016  
*Dartmouth College, Thayer School of Engineering*

Neurohackweek Summer School  
*University of Washington eScience Institute*

Social Affective Neuroscience Society Poster Award 2015  
*Social and Affective Neuroscience Society*

PBS Graduate Travel Award  
*Dartmouth College*

National Science Foundation Graduate Research Fellowship 2013-2016  
*Dartmouth College*

BCS Dept: Highest Honors in research 2010  
*University of Rochester*

Wilder-Trustee Scholarship 2006-2010  
*University of Rochester*

## Mentorship

Wasita Mahaphanit 2022-Present  
Graduate Student  
*Dartmouth College*

Sushmita Sadhukha  
Graduate Student  
*Dartmouth College*

Maxwell Ranger '22 2021-2022  
Honors Thesis  
*Dartmouth College*

Maryam Iqbal '21 2017-2021  
Presidential Scholar/Honors Thesis  
*Dartmouth College*

Liza Begunova '21 2020-2021  
Honors Thesis  
*Dartmouth College*

Max Farrens '20 2019-2020  
Full-time Research Assistant  
*Dartmouth College*

Nathan P. Greenstein '19 2017-2019  
Presidential Scholar

*Dartmouth College*

Sushmita Sadhukha '18  
Full-time Research Assistant  
*Dartmouth College*

Arati A. Gangadharan '18  
Honors Thesis  
*Dartmouth College*

2015-2018

Hirsh Elhence '17  
Presidential Scholar  
*Dartmouth College*

2015-2017

## Technical Skills

### Programming Languages

Python, Javascript, Matlab, R, Bash

### Frontend Web Development

HTML, CSS, Svelte, Vue

### 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

Cerebral Cortex, Neuroimage, Human Brain Mapping, SCAN, Neuropsychologia, Cognition and Emotion, JESP, PLoS One, GigaScience, JOSS, Nature Communications, SIGCHI, Frontiers in Psych, JPSP, JEP:G, Journal of Neuroscience, Scientific Reports

### Society Memberships

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

## Leadership & Community

### Committee Member

2019-2022

Inclusivity, Diversity, and Culture Advisory Committee  
*Dartmouth College, Hanover, NH*

### Board Member

2020-2021

Dartmouth College Postdoctoral Association  
*Dartmouth College, Hanover NH*

<b>VP of Client Outreach</b> <u>Dartmouth Graduate Consulting Group</u> <i>Dartmouth College, Hanover, NH</i>	2018-2020
<b>Co-Founder</b> <u>Line@ Project</u> <i>Dartmouth College, Hanover, NH</i>	2017-2020
<b>Organizing committee member</b> <i>Dartmouth Brainhack, Hanover, NH</i>	2017
<b>Station Leader</b> GWISE Science day for local middle schools <i>Dartmouth College, Hanover, NH</i>	2014
<b>Primary Organizer</b> Social Brain Sciences Symposium talk series <i>Dartmouth College, Hanover, NH</i>	2013-2015
<b>Graduate Representative</b> Social Area Graduate Student Representative <i>Dartmouth College, Hanover, NH</i>	

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Last updated: August 2023