

September 2020

## Employment

2015 - Present	<b>Assistant Professor</b> , Department of Psychological and Brain Sciences, Quantitative Biomedical Sciences, Dartmouth College
2012-2015	<b>Postdoctoral Fellow</b> , University of Colorado Boulder (with Tor Wager, PhD)
2011 – 2012	<b>Predoctoral Clinical Psychology Intern</b> , University of California Los Angeles Semel Institute for Neuroscience (Health Behavior Track)

## Education & Training

2006 – 2012	<b>University of Arizona</b> , Tucson, AZ PhD in Clinical Psychology (with Alan Sanfey, PhD & John Allen, PhD)
2004 – 2006	<b>New School for Social Research</b> , New York, NY MA in Clinical Psychology (with David Silbersweig, MD, Marcel Kinsbourne, DM)
1998 – 2002	<b>Reed College</b> , Portland, OR BA in Psychology (thesis with Jennifer Henderlong-Corpus, PhD)

## Funding

Pending	<b>Co-PI</b> , R01 National Institute on Drug Abuse Neural mechanisms of social connection
Pending	<b>Co-I</b> , R01 National Institute of Mental Health Neural and Molecular Mechanisms Underlying Stress-Induced Inflammatory Responses
Pending	<b>Co-I</b> , R21 National Institute of Mental Health Modulation of emotion perception and memory via basolateral amygdala stimulation in humans
2020-Present	<b>PI</b> , Remote Experiential Learning Mini-Grant Dartmouth Center for the Advancement of Learning Experiential learning in an online neuroimaging methods laboratory course
2019-Present	<b>PI</b> , CAREER 1848370 National Science Foundation Neural and computational basis of guilt in decision-making
2018-Present	<b>PI</b> , R01MH116026-01 National Institute of Mental Health. Dynamic brain representations underlying emotional experience
2018-Present	<b>PI</b> , R56 MH080716 National Institute of Mental Health. Prefrontal-Amygdala interaction in social-learning
2017 – Present	<b>PI</b> , The Nelson A. Rockefeller Center at Dartmouth College, Faculty Research Grant.

Improving healthcare decisions: Managing emotions in social decision-making with exogenous constraints

2017 – 2018	<b>Co-PI</b> , Chiang Ching-kuo Foundation for International Scholarly Exchange. Towards a computational understanding of social status and mianzi in Chinese and American Cultures
2016 – 2017	<b>PI</b> , Neukom Institute for Computational Science, CompX Grant Crowd sourced development and validation of Neuro-computational models of affect
2014 – 2016	<b>Co-I</b> , National Institute of Health, Big Data to Knowledge (PI: Tor Wager) fMRI-based Biomarkers for Multiple Components of Pain
2012 – 2015	<b>Co-I</b> , National Institute of Health (PI: Tal Yarkoni) Large-scale automated synthesis of functional neuroimaging data
2009 – 2012	<b>PI</b> , National Institute of Mental Health, National Research and Service Award. Mechanisms Underlying Social Cooperative Behavior

## Awards & Fellowships

2019	<b>Fellow</b> Association for Psychological Science
2019	<b>Janet Taylor Spence Award for Transformative Early Career Contributions</b> , Association for Psychological Science
2018	<b>Junior Faculty Fellowship</b> , Dartmouth College
Summer 2010	<b>Cognitive Science Center Neuroeconomics Summer School</b> , University of Amsterdam
2009	<b>Graduate and Professional Student Council Student Showcase - 1<sup>st</sup> place</b> , University of Arizona
2009	<b>Technology Research Initiative Fund Graduate Student Imaging Fellowship</b> , University of Arizona
Summer 2008	<b>Neuroimaging Training Program Fellowship</b> , University of California Los Angeles
Summer 2007	<b>Summer Institute in Cognitive Neuroscience Fellowship</b> , University of California Santa Barbara
2006 – 2007	<b>Graduate Minority Fellowship</b> , University of Arizona
2006 – 2007	<b>Deans Fellowship</b> , New School for Social Research (Declined)
2004 – 2006	<b>University Scholars Award</b> , New School for Social Research

## Publications

Underlined authors are current or former trainees (postdoctoral, graduate, undergraduate, and research assistants).

- 1) van der Meer, J., Breakspear, M., **Chang, L.J.**, Sonkusare, S., & Cocchi, L. (2020). Movie viewing elicits rich and reliable brain state dynamics. *Nature Communications*.
- 2) Jolly, E.\*, Sadhukha, S.\*, & **Chang, L.J.** (2020). Headcases do not reduce head motion during natural viewing and speech. *Neuroimage*. \*denotes equal contributions.
- 3) Gonzalez, B., & **Chang, L.J.** (2020). Arbitrating computational models of observational learning. *Neuron* 106, 558-560.

- 4) Chen, P.H., Jolly, E., Cheong, J.H., & **Chang, L.J.** (2020). Inter-subject representational similarity analysis reveals individual variation in affective experience when viewing erotic movies. *Neuroimage*, 216.
- 5) Yu, H., Koban, L., **Chang, L.J.**, Wagner, U., Krishnan, A., Vuilleumier, P., Zhou, X., & Wager, T.D. (2020). The neural signature of cognitive antecedents and behavioral responses of interpersonal guilt. *Cerebral Cortex*, 30 (6) 3558-3572.
- 6) Gonzalez, B. & **Chang, L.J.** (In Press). Computational models of mentalizing. In *Theory of Mind*. Gilead, M & Ochsner, K. (Eds).
- 7) 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*, 1-11.
- 8) Cheong, J.H., Brooks, S., & **Chang, L.J.** (2019). FaceSync: Open source framework for recording facial expressions. *F1000 Research*, 8.
- 9) Gong, X., Brazil, I.A., **Chang, L.J.**, & Sanfey, A.G. (2019). Psychopathic traits are related to diminished guilt aversion and reduced trustworthiness during social decision-making. *Scientific Reports*.
- 10) Van Baar, J., **Chang, L.J.**, & Sanfey, A.G. (2019). Neural and computational substrates of moral phenotypes in social decision-making. *Nature Communications*, 10 (1) 1483.
- 11) Fareri, D.S., **Chang, L.J.**, & Delgado, M.R. (2019). Mechanisms of social learning. In *The Cognitive Neurosciences* 6<sup>th</sup> edition. Gazzaniga, M.S (Ed). MIT Press.
- 12) Jolly, E., & **Chang, L.J.** (2019). The Flatland Fallacy: Moving beyond low dimensional thinking. *Topics in Cognitive Science*, 11(2), 433-454.
- 13) FeldmanHall, O. & **Chang, L.J.** (2018). Social Learning: Emotions aid in optimizing goal-directed social behavior. In *Understanding Goal-Directed Decision-Making: Computations and Circuits*, Bornstein, A & Shenhav, A (Eds). Elsevier.
- 14) **Chang, L.J.** & Jolly, E. (2018). Emotions as computational signals of goal error. In *Nature of Emotion*, Fox, D., Lapate, R., Shackman, A., & Davidson, R.J (Eds). Oxford Press.
- 15) Taylor, V., Roy, M., **Chang, L.J.**, Gill, L. N., Mueller, C., & Rainville, P. (2018). Reduced Fear-Conditioned Pain Modulation in Experienced Meditators: A Preliminary Study. *Psychosomatic medicine*.
- 16) Vavra, P., & **Chang, L.J.**, & Sanfey, A.G. (2018). Expectations in the Ultimatum Game: Distinct Effects of Mean and Variance of Expected Offers. *Frontiers in Psychology*, 9, 992.
- 17) Cheong, J.H., Jolly, E., Sul, S., & **Chang, L.J.** (2017). Computational models in social neuroscience. In *Computational Models of Brain and Behavior*, Moustafa, A (Ed), Wiley-Blackwell.
- 18) Sul, S., Guroglu, B., Crone, E.A., & **Chang, L.J.** (2017). Medial prefrontal cortical thinning mediates shifts in other-regarding preferences during adolescence. *Scientific Reports*, 7(8510), 1-10.
- 19) Shermohammed, M., Mehta, P.H., Zhang, J., Brandes, C., **Chang, L.J.**, & Somerville, L.H. (2017). Does psychosocial stress impact cognitive reappraisal? Behavioral and neural evidence. *Journal of Cognitive Neuroscience*.

- 20) Taylor, V., **Chang, L.J.**, Rainville, P., & Roy, M. (2017). Learned Expectations and Uncertainty Facilitate Pain during Classical Conditioning. *Pain*, 158(8), 1528-1537.
- 21) Ashar, J.Y., **Chang, L.J.**, & Wager, T.D. (2017). Brain mechanisms of the placebo effect: An affective appraisal account. *Annual Reviews of Clinical Psychology*.
- 22) Woo, C.W., **Chang, L.J.**, Lindquist, M., & Wager, T.D. (2017). Brain signatures and models in translational imaging. *Nature Neuroscience*, 20 (3), 365-377.
- 23) Eisenbarth, H., **Chang, L.J.**, & Wager, T.D. (2016). Multivariate brain prediction of heart rate and skin conductance responses to social threat. *Journal of Neuroscience*, 36(47):11987-11998.
- 24) De La Vega, A., **Chang, L.J.**, Banich, M.T., Wager, T.D., & Yarkoni, T. (2016). Meta-analytic functional analysis of human medial frontal cortex reveals tripartite organization. *Journal of Neuroscience*.
- 25) Krishan, A., Woo, C.W.\*, **Chang, L.J.\***, Ruzic, L., Jackson, P., Wager, T.D. (2016). Somatic and vicarious pain are represented by dissociable multivariate brain patterns. *eLife*. \*denotes equal contributions.
- 26) Wager, T.D., Atlas, L.Y., Botvinick, M., **Chang, L.J.**, Coghill, R.C., Davis, K.D., Iannetti, G.D., Poldrack, R.A., Shackman, A.J., & Yarkoni, T. Pain in the ACC? Commentary on Lieberman and Eisenberger. (2016). *Proceedings of the National Academy of Science*.
- 27) Lindquist, M.A., Krishnan, A., Lopez-Sola, M., Jepma, M., Woo, C.W., Roy, M., Atlas, L.Y., **Chang, L.J.**, Losin, L., Eisenbarth, H., Ashar, Y.K., Koban, L., Delk, Z., & Wager, T.D. (2015). Group-regularized individual prediction: Theory and application to pain. *Neuroimage*.
- 28) **Chang, L.J.** & Smith, A. (2015). Social emotions and psychological games. *Current Opinions in Behavioral Sciences*, 5:133-140.
- 29) Yu, H., Shen, B., Yin, Y., Blue, P., & **Chang, L.J.** (2015). Dissociating guilt- and inequity-aversion in cooperation and norm compliance. *Journal of Neuroscience*, 35(24), 8973-8975.
- 30) Fareri, D.S.\*, **Chang, L.J.\***, Delgado, M.R. (2015). Neural and computational mechanisms underlying interpersonal collaboration. *Journal of Neuroscience*, 35(21), 8170-8180. \*denotes equal contributions.
- 31) **Chang, L.J.**, Gianaros, P., Manuck, S., Krishnan, K., & Wager, T.D. (2015). A sensitive and specific neural signature for picture induced affect. *PLoS Biology*, 13(6), 1-28.
- 32) **Chang, L.J.**, Reddan, M., Ashar, Y.K., Eisenbarth, H., & Wager, T.D. (2015). The challenges of forecasting resilience. *Behavioral Brain Sciences Commentary*, 38, 26-27.
- 33) Sanfey, A.G., Stallen, M., & **Chang, L.J.** (2014). Norms and expectations in social decision-making. *Trends In Cognitive Science*, 18(4), 172-174.
- 34) **Chang, L.J.** & Koban, L. (2013). Modeling emotion and learning of norms in social interactions. *Journal of Neuroscience*, 33(18), 7615-7617.
- 35) **Chang, L.J.**, Yarkoni, T., Khaw, M.W., & Sanfey, A.G. (2013). Decoding the role of the human insula in human cognition: Functional parcellation and large-scale reverse inference. *Cerebral Cortex*, 23(3), 739-749.

- 36) **Chang, L.J.**, & Sanfey, A.G. (2013). Great expectations: Neural computations underlying the use of social norms in decision-making. *Social Cognitive Affective Neuroscience*, 8(3), 277-284.
- 37) Brown, A.D., Root, J.C., Romano, T., **Chang, L.J.**, & Hirst, W. (2013). The limits of memory and imagination: Overgeneralized autobiographical Memory and future thinking in combat veterans with posttraumatic stress disorder. *Behavior Therapy and Experimental Psychiatry*, 44(1), 129-134.
- 38) Fareri, D.S., **Chang, L.J.**, Delgado, M.R. (2012). Effects of experienced social information on trust decisions and neural reward circuitry. *Frontiers in Decision Neuroscience*, 6, 1- 17.
- 39) Kahnt, T., **Chang, L.J.**, Park, S.Q., Heinzle, J., Haynes, J.D. (2012). Connectivity based parcellation of the human orbitofrontal cortex. *Journal of Neuroscience*, 32(8), 6240-6250.
- 40) Harle, K.M., **Chang, L.J.**, van't Wout, M., & Sanfey, A.G. (2012). The neural underpinnings of mood-driven biases in social economic decision-making. *Neuroimage*, 61(1), 32-40.
- 41) **Chang, L.J.**, Smith, A., Dufwenberg, M., & Sanfey, A.G. (2011). Triangulating the neural, psychological, and economic bases of guilt aversion. *Neuron*, 70, 560-572.
- 42) Van't Wout, M, **Chang, L.J.**, & Sanfey, AG. (2010). Emotion regulation and social interactive decision-making. *Emotion*, 10(6), 815-821.
- 43) **Chang, L. J.**, Doll, B., Van't Wout, M., Frank, M., Sanfey, A.G. (2010). Seeing is believing: Trustworthiness as a dynamic belief. *Cognitive Psychology*, 61(2), 87-105.
- 44) **Chang, L.J.**, & Sanfey, A.G. (2009). Unforgettable Ultimatums? Expectation violations promote enhanced social memory following economic exchange. *Frontiers in Behavioral Neuroscience*, 3, 1-12.
- 45) **Chang, L.J.** & Sanfey, A.G. (2008). Emotion, decision-making, and the brain. In D. Houser & K. McCabe (Eds.), *Neuroeconomics*. Elsevier, 31-53.
- 46) Sanfey, A.G. & **Chang, L.J.** Multiple systems in decision-making. (2008). In W.T. Tucker, S. Ferson, A. Finkel, T.F. Long, D. Slavin, P. Wright (Eds.), *Strategies for risk communication: Evolution, evidence, experience*. New York: *Annals of the New York Academy of Science*, 1128, 53-62.
- 47) Protopopescu, X., Pan, H., Tuescher, O., Root, J., **Chang, L.**, Altemus, M., Polanecsky, M., McEwen, B., Stern, E., & Silbersweig, D. (2008). Toward a Functional Neuroanatomy of Premenstrual Dysphoric Disorder: Differential Amygdalar, Orbitofrontal and Ventral Striatal Activity. *Journal of Affective Disorders*, 108, 87-94.
- 48) Butler, T., Pan, H., Tuescher, O., Engelen, A., Goldstein, M., Epstein, J., Weisholtz, D., Protopotescu, X., Root, J. C., Cunningham-Bussell, A.C., **Chang, L.**, Xie, X.H., Chen, Q., Phelps, E.A., Ledoux, J.E., Stern, E., Silbersweig, D.A. (2007). Human fear-related motor neurocircuitry. *Neuroscience*, 150 (1) 1-7.
- 49) Butler, T., Imperato-McGinley, J., Pan, H., Voyer, D., Cunningham-Bussel, A. C., **Chang, L.**, Zhu, Y. S., Cordero, J., Stern, E., Silbersweig, D. (2007). Sex specificity of ventral anterior cingulate cortex suppression during a cognitive task. *Human Brain Mapping*, 28 (11), 1206-12.
- 50) Root, J.C., Robbins, R., **Chang, L.**, & Van Gorp, W.G. (2006). Detection of suboptimal effort on the California Verbal Learning Test, Second Edition: analysis and normative data for forced choice recognition. *Journal of the International Neuropsychological Society*, 12 (5), 688-96.

## Manuscripts Under Review

- Chang, L.J., Jolly, E., Cheong, J.H., Chen, P.H.A., Rapuano, K., & Manning, J.R.** Endogenous variation in ventromedial prefrontal cortex state dynamics reflects affective experience in naturalistic viewing. Manuscript Under Revision at Science Advances
- Cheong, J.H., Molani, Z., Sadhukha, S., & Chang, L.J.** Synchronized emotions in shared experiences increase social connection. Manuscript Under Revision at Nature Communications Biology.
- Jolly, E., & Chang, L.J.** Spatial feature selection in multivariate pattern analysis. Manuscript Under Revision at Social Cognitive Affective Neuroscience.
- Jolly, E. & Chang, L.J.** Gossip drives vicarious learning and facilitates robust social connections. Manuscript Under Revision at Current Biology.
- van Baar, J., Klaassen, F., Ricci, R., Chang, L.J., & Sanfey, A.G.** Stationary distribution of moral strategies in a population. Manuscript Under Revision at Scientific Reports.
- Fox, A.S., Chang, L.J., Gorgolewski, K., & Yarkoni, T.** Bridging genetics and psychology using large-scale spatial analysis of neuroimaging and neurogenetic data. Manuscript Under Revision at Nature Neuroscience
- Bujarski, K., Song, Y, Xie, T., Kolankiewicz, S., Aronson, J., Chang, L.J., Jobst, B.** Modulation of affective valence via amygdala stimulation in humans. Manuscript Under Review.
- Shvil, E., Papini, S., Markowitz, J.C., Schafer, S., Sullivan, G.M., Chang, L.J., Rusch, H.L., van der Hoorn, K.R., Milad, M.R., Wager, T.D., & Neria, Y.** Impaired hippocampal-dependent context modulation in posttraumatic stress disorder. Manuscript Under Review.
- Weaverdyck, M.E., Du, M., Li, Y.C., Chang, L.J. & Parkinson, C.** Homophily serves as a social prior: The assumption that “birds of a feather flock together” shapes social decisions and relationship beliefs. Manuscript Under Review.
- Gao, X., Jolly, E., Yu, H., Liu, H., Zhou, X.\*, & Chang, L.J.\*** The hidden cost of receiving help: A theory of indebtedness. Manuscript Under Review. \*denotes equal contributions.

## Manuscripts In Preparation

- Jolly, E., Smith, A., & Chang, L.J.** Guilt-aversion motivates harm minimization in surrogate decision-making. Manuscript in Preparation.
- Gonzalez, B., van Baar, J. & Chang, L.J.** Modeling mentalizing using inverse reinforcement-learning. Manuscript in preparation.
- Brandt, A., Smith, A.C., & Chang, L.J.** Guilt-aversion motivates returning lost wallets. Manuscript in preparation.
- Xie, T.K., Cheong, J.H., Brandt, A.M., Aronson, J., Jobst, B., Bujarski, K., & Chang, L.J.** *Cross-modal synchronization of ventromedial prefrontal cortex during natural movie viewing.* Manuscript in Preparation.

- van Baar, J., **Chang, L.J.**, & Sanfey, A.G. Diffusion of responsibility affects amends-making after harmful group decisions. Manuscript in preparation.
- Chang, L.J.**, Eisenbarth, H., Reddan, M., Andrews, E., & Wager, T.D. Recovering sparse emotional ratings with collaborative filtering. Manuscript in Preparation.
- Chang, L.J.**, Burnashev, A., & Wager, T.D. Crowd sourced training and validation of multivariate models of psychological states with neuro-learn. Manuscript in Preparation.
- Chang, L.J.**, Gianaros, P.J., Gross, J., Manuck, S., & Wager, T.D. Reappraisal alters the construction of negative affect. Manuscript in Preparation.
- Chang, L.J.**, Robustelli, B., Whisman, M., & Wager, T.D. The analgesic effects of relationship. Manuscript in Preparation.
- Yarkoni, T, De La Vega, A., & **Chang, L.J.** Fully automated meta-analytic clustering and decoding of human brain activity. Manuscript in Preparation.
- Rossi, F., Fasel, I., Bartlett, M., Sanfey, A.G & **Chang, L.J.** Affective mechanisms of reinforcement-learning in social and non-social decision-making.

## White Papers

- Chang, L.J.** (2017). The science of trust. Commission on Trust, Media, and American Democracy. The Aspen Institute.

## Online Books

- Chang, L.J.**, Huckins, J., Cheong, J.H., Brietzke, S., Lindquist, M.A., & Wager, T.D. (2020, June). DartBrains: An online open access resource for learning functional neuroimaging analysis methods in Python (Version 1.0). Zenodo. <http://doi.org/10.5281/zenodo.3909718>
- Chang, L.J.**, Manning, J.R., Baldassano, C., de la Vega, A., Fleetwood, G., Geerligs, L., Haxby, J., Lahnakoski, J., Parkinson, C., Shappell, H., Shim, W.M., Wager, T.D., Yarkoni, T., Yeshurun, Y. & Finn, E. (2020, July). Naturalistic-Data: An online open access resource for learning how to analyze naturalistic neuroimaging data (Version 1.0). Zenodo. <http://doi.org/10.5281/zenodo.3937849>

## Selected Open-Source Software Packages

- nltools**. A suite of Python tools for conducting multivariate analysis of neuroimaging data  
<https://github.com/cosanlab/nltools>
- neuro-learn**. Cloud-based predictive modeling of neuroimaging  
<http://neuro-learn.org>
- emotionCF**. A Python toolbox for performing collaborative filtering on emotion datasets  
<https://github.com/ljchang/emotionCF>
- feat**. A Python toolbox for analyzing and visualizing facial expression data  
<https://github.com/cosanlab/feat>

**facesync.** A Python toolbox for synchronizing videos based on audio features.

<https://github.com/cosanlab/facesync>

## Chaired Symposia, Workshops, & Summer Schools

2020	<b>Co-Director</b> of 9-day Methods in Neuroscience at Dartmouth Computational Summer School on “Interacting Minds”, Hanover, NH
2020	<b>Co-Organizer</b> of SANS preconference workshop on “Computational Social and Affective Neuroscience” (Cancelled due to Covid-19)
2019	<b>Co-Chair</b> 8 <sup>th</sup> Annual Affective Computing and Intelligent Interaction Meeting Special Session “Neural & Psychological Models of Affect”, Cambridge, UK
2019	<b>Co-Director</b> of 9-day Methods in Neuroscience at Dartmouth Computational Summer School on “Cognitive Maps”, Hanover, NH
2019	<b>Co-Director</b> of 14-day Summer Institute in Cognitive Neuroscience Summer School on “Computational Social Neuroscience: Advances, Challenges, and New Directions”, Santa Barbara, CA
2019	<b>Co-Organizer</b> of SANS preconference workshop on “Computational Social and Affective Neuroscience”
2018	<b>Co-Director</b> of 9-day Methods in Neuroscience at Dartmouth Computational Summer School of “Narratives and Natural Contexts”, Hanover, NH,
2017	<b>Co-Director</b> of 8-day Methods in Neuroscience at Dartmouth Computational Summer School of “Multiscale Network Dynamics”, Hanover, NH
2017	<b>Co-Organizer</b> of Dartmouth BrainHack (4-day department neuroscience hackathon), Hanover, NH
2016	<b>Co-Chair</b> Society for Neuroscience Nanosymposium “Insights into human cognition and emotion using large-scale neuroinformatics” Nanosymposium, San Diego, CA
2016	<b>Co-Chair</b> for “Dartmouth Affective Neuroscience Symposium”, Hanover, NH
2014	<b>Co-Chair</b> for “Computational approaches to social affective neuroscience” at the 7th Annual Social Affective Neuroscience Society Meeting, Denver, CO
2010	<b>Co-Organizer</b> of a 3-day workshop, University of Arizona School, Tucson, AZ, “Introduction to the R statistical language”

## Professional Service

2020 – Present	Editorial Board - Current Opinions in Behavioral Science
2020	NSF CAREER Panel, Dartmouth College
2020	NSF Adhoc Reviewer
2020	NIH Computational Psychiatry Special Review Panel
2019 – Present	Affective Computing & Intelligent Interactions Program Committee
2019 - Present	Editorial Board - Affective Science
2019 - Present	Max Planck Center for Language, Music, & Emotion Affiliate
2019	NIH Computational Psychiatry Special Review Panel
2018	NIH MESH Review Panel
2018 - Present	Society for Affective Science Journal Advisory Board
2018 - 2020	Program Committee Social Affective Science Meeting
2018 - Present	Scientific Advisory Board for Mind Trace <a href="https://mind-trace.com/">https://mind-trace.com/</a>
2016	Reviewer Cosyne Meeting
2016 – Present	Review Editor for Emotion
2015- 2016	Organizing Committee Social Affective Neuroscience Meeting
2014 – 2016	Review Editor Frontiers in Emotion Science



Summer 2013  
2008  
2006 – 2008

Guest Lecturer in University of Colorado Science Discovery Program for adolescents  
Psychology Department Mini-Convention Organizer  
Psychology Department Graduate Student Representative

## Invited Talks

Sep 2021	Computational Properties of Prefrontal Cortex, Oxford, UK
Oct 2020	Technology in Psychiatry Summit, Boston, MA
May 2020	Nilearn Machine Learning Workshop, Montreal, Quebec (Withdrew)
Mar 2020	Transforming the Practice of Mental Health Care, NIMH Panel
Mar 2020	Program in Placebo Studies & Therapeutic Encounters, Harvard Medical School
Jun 2020	Organization for Human Brain Mapping, Montreal, Quebec
Jun 2020	Interdisciplinary Symposium on Decision Neuroscience, Philadelphia, PA (Cancelled)
Mar 2020	University of Southern California, Los Angeles, CA
Feb 2020	Brown University, Providence, RI
Feb 2020	Johns Hopkins University, Baltimore, MD
Jan 2020	Columbia University, New York, NY
Dec 2019	New York University, New York, NY
Dec 2019	Princeton University, Princeton, NJ
Nov 2019	Max Planck, Frankfurt, Germany
Sept 2019	Affective Computing and Intelligent Interactions, Cambridge, UK
July 2019	Reinforcement Learning & Decision-Making, Montreal, Quebec
June 2019	Summer Institute in Cognitive Neuroscience, Santa Barbara, CA
May 2019	Association for Psychological Science, Washington DC
Mar 2019	Victoria University, Wellington, NZ
Mar 2019	Brain functional organization and connectivity workshop, Noosa, Australia
Feb 2019	Center for Healthy Minds, Madison, WI
Feb 2019	University of Wisconsin Madison Colloquium, Madison, WI
Nov 2018	Society for Neuroscience Nanosymposium, San Diego, CA
Nov 2018	Society for Neuroscience Minisymposium, San Diego, CA
Sep 2019	Austen Riggs Computational Neuroscience Workshop, The Berkshires, MA
Aug 2018	Dartmouth Hitchcock Medical Center Department of Neurology, Lebanon, NH
May 2018	Association for Psychological Science, San Francisco, CA
Apr 2018	Society for Affective Science, Los Angeles, CA
Mar 2018	Computational Systems Neuroscience Meeting, Breckenridge, CO
Mar 2018	Society for Personality and Social Psychology, Atlanta, GA
Feb 2018	Templeton Roundtable, Hanover, NH
Jan 2018	Science Pub, Lebanon, NH
Oct 2017	Dartmouth Hitchcock Medical Center Department of Psychiatry, Lebanon, NH
Oct 2017	Princeton University, Princeton, NJ
Oct 2017	New York University, NY, NY
Sep 2017	Harvard University, Boston, MA
Aug 2017	Social Neuroeconomics Summer School, Duke University, Durham, NC
July 2017	Beyond the Lab Psychonomics Workshop, Madison, WI
May 2017	Dartmouth 21 <sup>st</sup> Annual Neuroscience Day, Hanover, NH
May 2017	Multimodal Neuroimaging Training Program, Pittsburgh, PA
May 2017	New England Research Decision-Making Group (Brown University)
May 2017	Boston Area Moral Cognition Group, Harvard University, Boston, MA
May 2017	Affectiva, Boston, MA
Apr 2017	Dartmouth Interdisciplinary Network Research Group, Hanover, NH
Apr 2017	Society for Affective Neuroscience, Boston, MA
Mar 2017	Society for Social and Affective Neuroscience, Los Angeles, CA

Jan 2017	Society for Social and Personality Psychology, San Antonio, TX
Nov 2016	Society for Neuroscience Nanosymposium, San Diego, CA
Jun 2016	Dartmouth Affective Neuroscience Symposium
May 2016	Hanover Rotary Club, Hanover, NH
Nov 2015	Yale University, New Haven, CT
Oct 2015	Harvard University, Cambridge, MA
Oct 2015	Society for Neuroscience Nanosymposium, Chicago, IL
Sep 2015	University of New Hampshire, Durham, NH
May 2015	University of College London, London, UK
May 2014	American Psychological Science, SF, CA
Apr 2014	Social Affective Neuroscience Society, Denver,
Jan 2014	University of California Santa Barbara, Santa Barbara, CA
Dec 2013	Princeton University, Princeton, NJ
Nov 2013	University of Colorado, Boulder, CO
Nov 2013	Dartmouth College, Hanover, NH
Oct 2013	Harvard University, Cambridge, MA
Sep 2013	University of Amsterdam, Amsterdam, The Netherlands
Sep 2013	Donders Institute for Brain, Cognition, and Behavior, Nijmegen, The Netherlands
Aug 2013	European Society for Cognitive Psychology, Budapest, Hungary
Apr 2013	University of Denver, Denver, CO
Jan 2013	University of Colorado, Boulder, CO
May 2012	UCLA, Department of Psychiatry, Los Angeles, CA
Apr 2012	Duke University, Durham, NC
Apr 2012	Virginia Tech Carilion Research Institute, Roanoke, VA
Mar 2012	University of Colorado, Boulder, CO
Feb 2012	Stanford University, Palo Alto, CA
Jun 2010	Leiden University, Leiden, Netherlands
Sep 2009	Society for Neuroeconomics, Evanston, IL.
Nov 2006	Clinical Psychology Datablitz, Tucson, AZ.

## Teaching

**Principles of fMRI Data Analysis**, Dartmouth College

[http://cosanlab.com/static/syllabi/PSYC60\\_Syllabus.pdf](http://cosanlab.com/static/syllabi/PSYC60_Syllabus.pdf)  
<https://dartbrains.org/>

**Social and Affective Motivations in Decision-Making**, Dartmouth College

[http://cosanlab.com/static/syllabi/PSYC53\\_Syllabus.pdf](http://cosanlab.com/static/syllabi/PSYC53_Syllabus.pdf)

**Experimental Study of Social Behavior**, Dartmouth College

[http://cosanlab.com/static/syllabi/PSYC63\\_Syllabus.pdf](http://cosanlab.com/static/syllabi/PSYC63_Syllabus.pdf)  
<https://github.com/lichang/psyc63>

**The Power of Beliefs**, Dartmouth College

[http://cosanlab.com/static/syllabi/PSYC84\\_Syllabus.pdf](http://cosanlab.com/static/syllabi/PSYC84_Syllabus.pdf)

**Research Methods in Psychology**, University of Arizona

**Graduate Statistics**, University of Arizona

## Mentoring & Research Advising

Postdoctoral Trainees

2015-2016 Sunhae Sul (Faculty: Pusan National University)  
 2015-2018 Seth Frey (Faculty: University of California Davis)  
 2016-2019 Pin-hao (Andy) Chen (Faculty: National Taiwan University)  
 2019-Present Eshin Jolly

Primary Doctoral Students

2015-2019 Eshin Jolly (Postdoc: Dartmouth College)  
 2017-2019 Daisy Burr (Transferred to Duke University)  
 2017-2018 Kristina Rapuano (Postdoc: Yale University)  
 2015-Present Jin Cheong  
 2016-Present Emma Templeton (co-advised with Thalia Wheatley)  
 2017-Present Bryan Gonzalez  
 2018-Present Marissa Clark  
 2019-Present Tiankang Xie (Quantitative Behavioral Science Program)

Visiting Students

Fall 2013 Hongbo Yu (Peking University)  
 Spring 2017 Jeroen van Baar (Donders Institute)  
 Fall 2017 Xiaoxue Gao (Peking University)

Dissertation Committee

2019 – Pres Dae Houlihan, MIT (Advisor: Rebecca Saxe)  
 2018 – Pres Yu Han, University of Vermont (Advisor: Patricia Prelock)  
 2016 – 2019 Feilong Ma, Dartmouth College (Advisor: James Haxby)  
 2016 – 2018 Beau Sievers, Dartmouth College (Advisor: Thalia Wheatley)  
 2016 – 2017 Rachel Pizzie, Dartmouth College (Advisor: David Kraemer)  
 2016 – 2017 Sam Nastase, Dartmouth College (Advisor: James Haxby)  
 2015 – 2017 Briana Robustelli, University of Colorado Boulder (Advisor: Mark Whisman)

Specialist Committee

2018 Sophie Wohltjen (Advisor: Thalia Wheatley)  
 2019 Kirsten Ziman (Advisor: Jeremy Manning)  
 2019 Mira Nenchev (Advisor: Thalia Wheatley)  
 2018 Lucy Owen (Advisor: Jeremy Manning)  
 2017 Feilong Ma (Advisor: James Haxby)  
 2017 Vassiki Chauhan (Advisor: Ida Gobbin)

Undergraduate Thesis & Independent Research Project

2020 Paige Whittemore (Psychology Thesis) – won Benjamin G. Benner 1969 Award for Excellence in Psychology  
 2020 Hailey Scherer (Cognitive Science Thesis)  
 2020 Sophie Byrne (Psychology Thesis) – won Lt. William Brewster Nickerson 1964 Psychology and Brain Sciences Prize  
 2020 Max Farrens (Neuroscience Thesis) – won Robert N Leaton Prize for Best Neuroscience Thesis  
 2020 Julia Potter (Psychology Thesis)  
 2020 Jessica Kobsa (Senior Fellowship Examining Committee)  
 2019 Madeleine Waters (Psychology Thesis w/ Sarah Lord)  
 2019 Tucker Brown (QSS Thesis)  
 2019 Karina Lopez (Neuroscience Independent Research Project)  
 2019 Nathan Greenstein (Cognitive Science Independent Research Project)

2019	Samantha Milne (Cognitive Science Independent Research Project)
2019	Caitlyn Lee (Psychology/Computer Science w/ Thalia Wheatley)
2019	Paxton Fitzpatrick (Psychology Thesis w/ Jeremy Manning) – won Lt. William Brewster Nickerson 1964 Psychology and Brain Sciences Prize
2018	Arati Gangadharan (Neuroscience Thesis)
2018	Sushmita Sadhukha (Neuroscience Independent Research Project)
2018	Zohra Aslami (Neuroscience Thesis w/ Wilder Doucette)
2018	Elizabeth Reynolds (Psychology Thesis w/ Thalia Wheatley)
2017	Hirsh Elhence (Neuroscience Independent Research Project)
2017	Helen Schlactenhafen (Psychology Independent Research Project)
2016	Dan Whitcomb (Computer Science Independent Research Project)

### Ad-hoc Reviewing (Papers, Grants, Proposals)

Behavioral Sciences, Brain and Cognition, Brain Research, Cerebral Cortex, Cognitive Affective Behavioral Neuroscience, Cognitive Computation, DFG – German Research Federation, eLife, Emotion, Rotterdam School of Management, Erasmus University, Evolution and Human Behavior, Frontiers in Neuroscience, Journal of Cognitive Neuroscience, Journal of Neuroscience, Journal of Economic Psychology, Human Brain Mapping, Nature Communications, Nature Human Behavior, Nature Neuroscience, Neuroimage, Neuron, NSF – National Science Foundation, Perspectives in Psychological Science, PLoS One, PLoS Computational Biology, Proceedings for the National Academy of Science, Psychological Science, Science Advances, Psychological Review, Science, Scientific Reports, Social Cognitive Affective Neuroscience, Trends in Cognitive Science, University of Trento, Vermont Genetic Network

### Software/Programming Skills (<http://github.com/ljchang>)

Scientific Computing (Python, Matlab, Bash), Statistics (R, Stan, SAS), Brain Imaging (Nipy, FSL, SPM), Web Development (Flask, Meteor)

### Professional Memberships

Society for Neuroscience, Society for Affective Neuroscience, Society for Social Neuroscience, Society for Social Affective Neuroscience, Association for the Advancement of Affective Computing, Society for Social and Personality Psychology, Society for Neuroeconomics, Organization for Human Brain Mapping, Cognitive Neuroscience Society, American Psychological Society