JIN HYUN CHEONG

Psychological and Brain Sciences

PhD candidate in Cognitive Neuroscience

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Research Education

Dartmouth College, Hanover, NH   2015 - *present*
PhD candidate in Cognitive Neuroscience
Advisor: Luke Chang

Princeton Neuroscience Institute, Princeton, NJ   2013 - 2015
Lab Manager at Botvinick Lab
Advisor: Matthew Botvinick

Princeton University, Princeton, NJ   2007 - 2013
A.B. with Honors in Psychology
Certificate in Neuroscience with Honors
Certificate in Finance
Advisors: Matthew Botvinick, Daniel Osherson

Awards, Funding, & Membership

AI Grant, Artificial Intelligence Grant, https://aigrant.org   2018
Best Thematic Flash Talk Award, Society for Affective Science, L.A., C.A.   2018
Best Dartmouth Community Hack, Hackathon, Dartmouth College   2018
NEUKOM Institute Computational Research Travel Grant, Dartmouth College   2018
Methods in Neuroscience at Dartmouth, Dartmouth College   2017
NIH NIDCR Travel Award, 2017 APS Annual Convention, Boston, MA   2017
NIH Multimodal Neuroimaging Training Program Travel Award, University of Pittsburgh   2017
Dartmouth Entrepreneurial Network Innovation Prize, Hackathon, Dartmouth College   2016
Second Best Hack, Hackathon, Dartmouth College   2016
Presidential Fellow Award, Dartmouth College   2015
Sigma Xi Scientific Research Society, Princeton University   2013
Horton Elmer Fund, Senior Thesis Research Grant Funding, Princeton University   2013
Samsung Scholarship, Full college tuition Scholarship   2007

Publications

Cheong, J.H., Brooks, S., and Chang, L.J. (Under Review). FaceSync: Open source framework for recording facial expressions with head-mounted cameras. [Preprint]

Momennejad, I., Russek, E.M., **Cheong, J.H.,** Botvinick, M.M., Daw, N. and Gershman, S.J. (2017). The successor representation in human reinforcement learning: evidence from retrospective revaluation. Nature Human Behaviour, 1. [Link] [Preprint]

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. [Link]

Oud, B., Krajbich, I., Miller, K., **Cheong, J. H.**, Botvinick, M., & Fehr, E. (2016). Irrational time allocation in decision-making. In *Proc. R. Soc. B*(Vol. 283, No. 1822, p. 20151439). The Royal Society. [Link]

Working Papers

Cheong, J.H., Losin, E.R., Wager, T.D., and Chang, L.J. (in prep). Temporal dynamics in biomarkers of doctor empathy modulates patient pain responses in simulated clinical interactions.

Cheong, J.H., Jolly, E., and Chang, L.J. (in prep). A window into the mind: A computational approach to measuring emotions in response to naturalistic stimuli.

Diuk, C.*, Yee, D.*, **Cheong, J.H.***, Weinstein, A., Stachenfeld, K., Schapiro, A., Barto, A., Niv, Y., and Botvinick, M.M. (in prep). A warped map of problem space in human hippocampus. *denotes equal contributions.

Posters & Presentations

Cheong, J.H., Sadhukha, S., Molani, Z., and Chang, L.J. (May, 2018). Convergence of opinions and emotions in shared experiences. Poster presented at the *2018 Annual Meeting of the Social and Affective Neuroscience Society,* Brooklyn, NY.

Cheong, J.H., Sadhukha, S., Molani, Z., and Chang, L.J. (April, 2018). Convergence of opinions and emotions in shared experiences. Flash-Talk presented at the *2018 Society for Affective Science Annual Conference,* Los Angeles, CA. *Best Thematic Flash Talk Award*

Cheong, J.H., Losin, E., Wager, T., and Chang, L.J. (May, 2017). Temporal Dynamics in Biomarkers of Doctor Empathy Modulates Patient Pain Responses in Simulated Clinical Interactions*. Poster presented at the *2017 29th Association for Psychological Science Annual Convention,* Boston, MA. *NIDCR/NIH Building Bridges Travel Award*

Cheong, J.H., Jolly, E., and Chang, L.J. (April, 2017). Inferring social impressions from facial expressions*. Poster presented at the *2017 Dartmouth Graduate Poster Session,* Hanover, NH. *Best Poster Award*

Cheong, J.H., Jolly, E., and Chang, L.J. (March, 2017). A window into the mind: A computational approach to measuring emotions in response to naturalistic stimuli*. Poster presented at the *2017 Social and Affective Neuroscience Society,* Los Angeles, CA. *SANS Best Poster Award*

Jolly, E., **Cheong, J.H.** & Chang, L.J. (March, 2017). Spontaneous impression-formation about parasocial relationships. Presentation at the *Annual Meeting of the Social and Affective Neuroscience Society,* Los Angeles, CA.

Brooks, H., **Cheong, J.H.**, Cohen, J.D., and Chang, L.J. (November, 2016). Using patterns of functional brain connectivity to classify autism spectrum disorder. Poster presented at the *2016 Annual Biomedical Research Conference for Minority Students*, Tampa, FL.

Cheong, J.H., Jolly, E., and Chang, L.J. (June, 2016). Psychophysiological intersubject synchrony to naturalistic stimuli. Poster presented at the *2016 Samsung Scholarship Academic Camp*, Muju, Korea.

Momennejad, I., **Cheong, J.H.**, Botvinick, M.M., and Gershman, S.J. (June, 2015). The successor representation in human reinforcement learning: evidence from retrospective revaluation. Poster presented at the *2nd Multidisciplinary Conference on Reinforcement Learning and Decision Making*, Edmonton, Canada.

Botvinick, M.M., Diuk, C., Yee, D., **Cheong, J.H.**, Weinstein, A., Schapiro, A., Niv Y., and Barto, A. (Nov, 2014). A hierarchical representation of problem space in human hippocampus. Poster presented at the *44th Annual Society for Neuroscience Meeting*, Washington, DC.

Oud, B., Krajbich, I., Miller, K., **Cheong, J.H.**, Botvinick, M.M., and Fehr, E. (June, 2014). Irrational Time Allocation in Decision Making. Poster presented at *2014 Samsung Scholarship Academic Camp*, Yosemite, CA.

Cheong, J.H. (June, 2014). Importance of Self-control and Ways to Enhance It. Talk at *Samsung Scholarship Academic Camp*, Yosemite, CA.

Cheong, J.H. and Osherson, D. (June, 2013). Effects of Involvement and Timing on Illusion of Control's Mediation of Loss Aversion. Poster presented at *2013 Samsung Scholarship Academic Camp*, Muju, Korea.

Cheong, J.H. (June, 2013). Psychology of Face Perception. Talk at *2013 Samsung Scholarship Academic Camp*, Muju, Korea.

Teaching Experience

Social Psychology, T.A., Dartmouth College, Winter 2018
Principles of Human Brain Mapping with fMRI, T.A., Dartmouth College, Fall 2017
Advanced Statistics Workshop, T.A., Dartmouth Summer Seminar for Composition Research, Summer 2017
Experimental Study of Social Behavior, T.A., Dartmouth College, Winter 2017
Experimental Study of Social Behavior, T.A., Dartmouth College, Spring 2016

Services & Activities

Towards Data Science, Medium, contributing writer, 2018 -
fMRI Brown Bag Meeting, organizer, Dartmouth College, 2018 -
Dartmouth Social Labs Meeting, organizer, Dartmouth College, 2017
Departmental Graduate Student Representative, Dartmouth College, 2016 - 2018

Graduate Research Roundtable, organizer, Dartmouth College 2016 - 2017

Technical Skills & Languages

Software: MATLAB, R, Python, SPM, FSL, Microsoft Excel, PowerPoint, Word
Certification for fMRI scanners (Dartmouth College, Princeton University)
Language: Korean (NS), English (Fluent), Chinese (Intermediate)