

Kevin Alastair M. Tan

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EDUCATION

University of California, Los Angeles • Los Angeles, CA September 2018 – Present
Ph.D. Psychology – Social Cognitive Neuroscience
 Advisors: Matthew D. Lieberman, Carolyn Parkinson

Carnegie Mellon University • Pittsburgh, PA September 2010 – May 2014
B.S. Psychology – Cognitive Neuroscience
 Minors: Neural Computation and History
 Advisors: Timothy Verstynen, Maggie Braun

AWARDS, FELLOWSHIPS, AND HONORS

NSF Graduate Research Fellowship (\$138,000) Fall 2018 – Spring 2023
 São Paulo School on Advanced Science Fellowship Summer 2018
 Sigma Xi Best Poster Award (\$500) May 2014
 Carnegie Mellon Institutional Scholarship (\$10,400) Fall 2010 – Spring 2014
 Carnegie Mellon Undergraduate Grant (\$22,100) Fall 2010 – Spring 2014
 Dozzi Fellowship (\$1,000) Summer 2012
 Carnegie Mellon Dean's List Spring 2012, Spring 2013

RESEARCH EXPERIENCE

Computational Social Neuroscience Lab • University of California, Los Angeles September 2018 – Present
Doctoral Researcher
 Advisor: Carolyn Parkinson

Social Cognitive Neuroscience Lab • University of California, Los Angeles July 2016 – Present
Doctoral Researcher/Research Associate
 Advisors: Matthew D. Lieberman, Naomi I. Eisenberger

TarrLab • Carnegie Mellon University July 2014 – July 2016
Lab Manager/Research Assistant
 Advisor: Michael J. Tarr

Program in Cognitive Affective Neuroscience • University of Pittsburgh April 2012 – July 2014
Undergraduate Researcher
 Advisor: Greg J. Siegle

Carroll Lab • University of Minnesota May 2011 – August 2011
Research Assistant
 Advisor: Marilyn E. Carroll

PEER-REVIEWED PUBLICATIONS

M.D. Lieberman, M.A. Straccia, M.L. Meyer, M. Du, **K.M. Tan**. (2019). Social, Self, (Situational), and Affective Processes in Medial Prefrontal Cortex (MPFC): Causal, Multivariate, and Reverse Inference Evidence. *Neuroscience & Biobehavioral Reviews*. 10.1016/j.neubiorev.2018.12.021 [\[PDF\]](#)

WORKING MANUSCRIPTS

K.M. Tan, L.J. Burklund, M.G. Craske, M.D. Lieberman. (Under Review). PTSD and the social brain: affect-related disruption of the default and mirror networks during social inference. *Biological Psychiatry*. [\[Preprint PDF\]](#)

M. Moieni, **K.M. Tan**, J.M. Dutcher, K.A. Muscatell, T.K. Inagaki, N.I. Eisenberger. (Under Review). Sex differences in the relationship between inflammation and reward sensitivity: A randomized controlled trial of endotoxin. *Biological Psychiatry*.

K.M. Tan, M.J. Tarr. (In Prep). Bottom-up or top-down? The spatiotemporal dynamics of affective object perception differ across valence strength.

B.A. Tabak, P. Katzman, **K.M. Tan**, M.A. Straccia, M. Parrish, C. Leshak, M.D. Lieberman. (In Prep). Effects of oxytocin and vasopressin on the neural circuitry of social cognition.

CONFERENCE PRESENTATIONS

K.M. Tan, L.J. Burklund, M.G. Craske, M.D. Lieberman. (2018, May). *PTSD and the social brain: affect-related disruption of the default and mirror networks*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society, New York City, USA. [\[Poster PDF\]](#)

D.L. Ames, G.S.R. Gillespie, S.M. Burns, **K.M. Tan**, M.D. Lieberman. (2018, May). *Predicting the effectiveness of health messaging through fMRI and fNIRS*. Talk presented at the annual meeting of the Social and Affective Neuroscience Society, New York City, USA.

M.A. Cooper-White, D.L. Ames, S.M. Burns, **K.M. Tan**, G.S.R. Gillespie, M.D. Lieberman. (2018, May). *Investigating the neural and cognitive mechanisms behind 'latitudes of acceptance' for the opinions of others*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society, New York City, USA.

K.M. Tan, M.J. Tarr. (2016, April). *Valence-related visual encoding is dependent on valence strength prior to frontal affective processing*. Poster presented at the annual meeting of the Social and Affective Neuroscience Society, New York City, USA. [\[Poster PDF\]](#)

K.M. Tan, G.J. Siegle, T. Kraynak. (2014, May). *Toward a pathophysiology of rumination: dorsal nexus resting-state functional connectivity in depression before and after serotonergic or behavioral interventions*. Poster presented at the annual Meeting of the Minds conference, Carnegie Mellon University, USA. [\[Poster PDF\]](#)

K.M. Tan, L. Ferris, H.S. Lee. (2013, May). *Effect of room temperature on interpersonal attraction*. Poster presented at the biannual Research Methods Symposium, Carnegie Mellon University, USA.

TEACHING EXPERIENCE

Introduction to Psychology (Teaching Assistant, Psych10, UCLA)

Winter 2019

WORKSHOPS ATTENDED

São Paulo School on Advanced Science on Social and Affective Neuroscience

Summer 2018

Better Science Workshop – Stanford Center for Reproducible Neuroscience

March 2017

PROFESSIONAL AFFILIATIONS

Association for Psychological Science

2016 – Present

Social and Affective Neuroscience Society

2015 – Present

RELEVANT SKILLS

Experimental Psychology

- Paradigm design (event-related, blocked, resting-state)
- Paradigm implementation (PsychToolbox, E-Prime)
- Crowdsourcing (Mechanical Turk, Qualtrics)

Neuroimaging

- fMRI, EEG, and MEG data collection
- fMRI, EEG, ECoG, and tractographic preprocessing and analysis
- M/EEG source localization (DIPFIT, MNE)
- Software Packages: SPM, EEGLAB, AFNI, BrainVoyager, FreeSurfer, DSI Studio

Statistics and Data Analysis

- Regression analyses (fixed effects models, mixed models, logistic models)
- Machine learning (support vector machine classification, representational similarity analysis)
- Data decomposition (independent components analysis)
- Data clustering (PCA, t-SNE, k-means, affinity propagation)
- Parallel Distributed Processing
- Software Packages: MATLAB, R, SPSS, LENS, scikit-learn

Computing

- Languages: MATLAB, Python, Java, HTML/CSS, Alice
- Shell scripting: Bourne, BASH, GNU Parallel
- Software management: Git, JIRA, Eclipse
- Operating environments: Linux, Windows, OS X

INDUSTRY EXPERIENCE

Alice • Carnegie Mellon University

Software Development Intern

Bug-finding and debugging for the Alice 3 programming language

May 2012 –

August 2012

National Weather Service • Chanhassen, MN

Forecasting Intern

Tracking and forecasting Minneapolis-area winter storms through dynamical forecast models and ground, air, satellite, and radar observations

October 2005 –

April 2006