

Kevin Alastair M. Tan

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EDUCATION

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

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

AWARDS, FELLOWSHIPS, AND HONORS

NSF Graduate Research Fellowship (\$138,000) Fall 2018 – Spring 2023
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
Doctoral Researcher
Advisor: Carolyn Parkinson
September 2018 – Present

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

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

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

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

WORKING MANUSCRIPTS

- K.M. Tan**, L.J. Burklund, M.G. Craske, M.D. Lieberman. (in prep). PTSD and the social brain: affect-related disruption of the default and mirror networks during social inference
- K.M. Tan**, M.J. Tarr. (in prep). Bottom-up or top-down? The spatiotemporal dynamics of affective object perception differ across valence strength.
- M.D. Lieberman, M.A. Straccia, M.L. Meyer, M. Du, **K.M. Tan**. (under review). Social, self, situational, and affective processes in medial prefrontal cortex. *Psychological Inquiry*.
- M. Moieni, **K.M. Tan**, J.M. Dutcher, K.A. Muscatell, T.K. Inagaki, N.I. Eisenberger. (in prep). Exposure to an inflammatory challenge attenuates reward network reactivity to expected rewards.
- 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
- 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.
- 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.
- 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.

PROFESSIONAL AFFILIATIONS

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|---|----------------|
| 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, 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

PROFESSIONAL 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