Kevin Alastair M. Tan

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EDUCATION

University of California, Los Angeles • Los Angeles, CA
Ph.D. Psychology – Social 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
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
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

PEER-REVIEWED PUBLICATIONS

Moieni, M., **Tan, K.M.**, Inagaki, T.K., Muscatell, K.A., Dutcher, J.M., Jevtic, I., Breen, E.C., Irwin, M.R., Eisenberger, N.I. (2019). Sex differences in the relationship between inflammation and reward sensitivity: A randomized controlled trial of endotoxin. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 0(0). https://doi.org/10.1016/j.bpsc.2019.03.010 [PDF]

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

PRE-PRINT & WORKING MANUSCRIPTS

Tan, K.M., Burklund, L.J., Craske, M.G., & Lieberman, M.D. (2019). Posttraumatic Stress Disorder and the Social Brain: Affect-Related Disruption of the Default and Mirror Networks. *BioRxiv*, 527176. https://doi.org/10.1101/527176 [PDF]

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

CONFERENCE PRESENTATIONS

Tan, K.M., Daitch, A.L, Fox, K.C.R., Parvizi, J., Lieberman, M.D. (2019, May). *Intracranial Electrophysiology of Mentalizing*. Talk and poster presented for the Social and Affective Neuroscience Society, Miami Beach, USA. [Talk Slides PDF] [Poster PDF]

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

Ames, D.L, Gillespie, G.S.R., Burns, S.M., **Tan K.M.**, Lieberman, M.D.. (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.

Cooper-White, M.A., Ames, D.L., Burns, S.M., **Tan, K.M.**, Gillespie, G.S.R., Lieberman, M.D. (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.

Tan K.M., Tarr, M.J. (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]

Tan K.M., Siegle, G.J., Kraynak, T.. (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]

Tan K.M., Ferris, L., Lee, H.S. (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	October 2005 –

Forecasting Intern   April 2006
Tracking and forecasting Minneapolis-area winter storms through dynamical forecast
models and ground, air, satellite, and radar observations