Kevin Alastair M. Tan

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EDUCATION

Carnegie Mellon University • Pittsburgh, PA
B.S. Psychology − Cognitive Neuroscience
Minors: Neural Computation and History

September 2010 –
May 2014

AWARDS, FELLOWSHIPS, AND HONORS

Sigma Xi Best Poster Award ($500)	May 2014
Dozzi Fellowship ($1,000)	Summer 2012
Carnegie Mellon Institutional Scholarship ($10,400)	Fall 2010 − Spring 2014
Carnegie Mellon Undergraduate Grant ($22,100)	Fall 2010 − Spring 2014
Carnegie Mellon Dean's List	Spring 2012, Spring 2013

RESEARCH EXPERIENCE

Social Cognitive Neuroscience Lab • University of California, Los Angeles
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.D. Lieberman, M.G. Craske. (in prep). Neural responses to emotional faces during social inference predict symptom severity and treatment outcomes in PTSD.

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, 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. (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

Social and Affective Neuroscience Society	2015 – Present
Association for Psychological Science	2016 – 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, MNE, pyMVPA

Statistics and Data Analysis

- Regression analyses (fixed effects models, mixed models)
- Machine learning (support vector 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

REFERENCES

Matthew D. Lieberman, Ph.D.
Professor
Department of Psychology
Department of Psychiatry
Department of Biobehavioral Sciences
University of California, Los Angeles
mdlieber99@gmail.com

Michael J. Tarr, Ph.D.
Department Head and Professor
Department of Psychology
Center for the Neural Basis of Cognition
Carnegie Mellon University
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Mina Cikara, Ph.D.
Assistant Professor
Department of Psychology
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Naomi I. Eisenberger, Ph.D.
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