

Ian Taehwan Kim

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EDUCATION

2014 – 2016

M.A., Psychology

New York University, New York, U.S.A.

Thesis: The neural substrates of specific and general aversive motivation

Readers: Vincent D. Campese, Ph.D., Justin M. Moscarello, Ph.D., and Joseph E. LeDoux, Ph.D.

2010 – 2014

B.A., English Language and Literature

Sogang University, Seoul, South Korea

RESEARCH EXPERIENCE

2016 - present

Research Coordinator, Assistant, and Administrative Assistant

Division of Experimental Therapeutics, Department of Psychiatry, Columbia University Medical Center - New York State Psychiatric Institute (CUMC-NYSPI)

Principal Investigator: Daniel C. Javitt, M.D., Ph.D., Supervisor: Pejman Sehatpour, M.D., Ph.D.

Research Coordination and Data Collection:

- Manage subject recruitment, schedule research visits, consent procedures, and administer payment.
- Collected 150+ EEG data for six projects (one with eye-tracking), each consisting of various visual and auditory tasks investigating mismatch negativity in schizophrenia, prodromal (clinical high risk for developing schizophrenia, ages 14-29), Alzheimer's (amyloid positive and mild cognitive impairment cohorts, ages 55-80), and healthy control populations.

Data Analysis and Programming Skills:

- Analyze EEG data on sensory gating (P50) in low functioning schizophrenic patients for a clinical drug trial, and EEG data comparing auditory mismatch negativity in schizophrenic, prodromal, and healthy control groups (refer to poster).
- Converted an old P50 auditory sensory gating task as well as an audiometer task to Matlab (Psychtoolbox) based tasks.
- Extensive experience in Matlab (eeglab, erplab, Psychtoolbox), Python, Presentation by Neurobehavioral Systems, Excel with ANT-Neuro, and SPSS.
- Maintain EEG data server and workstation.

Teamwork/Administrative responsibilities:

- Collaborated with other research scientists to strengthen the quality of the data collection and trained other research assistants.
- Act as petty cash custodian for multiple projects, manage purchasing for the division, and reconcile monthly in collaboration with the finance office.
- Liaise with IT to maintain data server, workstation, task computers, and licenses.

2015 - present

Research Assistant

LeDoux Lab, Center for Neural Science, New York University (NYU)

Principal Investigator: Joseph E. LeDoux, Ph.D., Mentor: Vincent D. Campese, Ph.D.

- Currently processing data, writing papers, and managing follow-up experiments
- Studied aversive motivation in rodents using the Pavlovian-to-instrumental transfer paradigm
- Ran behavior, stereotaxic surgery, pharmacogenetics, and immunohistochemistry
- Mentored other research assistants, including a NYU Center for Neural Science summer undergraduate research program student

2015 - 2016

Research Assistant

Poeppel Lab, Department of Psychology, NYU

Principal Investigator: David Poeppel, Ph.D., Mentor: Adeen Flinker, Ph.D.

- Studied speech perception and hemispheric asymmetries in speech processing
- Ran behavioral psychophysics experiments and used Matlab for signal processing and data analysis
- Presented posters at the NYU M.A. research conference as well as the Society for the Neurobiology of Language conference

TEACHING EXPERIENCE

Spring 2017

Adjunct Instructor (Grader)

Introduction to Psychology, Department of Psychology, NYU

Professor: Amy Belfi, Ph.D.

Fall 2016

Adjunct Instructor (Grader)

Introduction to Psychology, Department of Psychology, NYU

Professor: Elizabeth A. Phelps, Ph.D.

Spring 2015

Teaching Assistant (Recitation Leader)

Introduction to Psychology, Department of Psychology, NYU

Professor: Elizabeth A. Phelps, Ph.D.

Fall 2013

Undergraduate Teaching Assistant

Departmental class assistant, Department of English, Sogang University

PUBLICATIONS

Manuscripts

Kim, I. T., Draus, C., Burke, K., LeDoux, J. E., & Campese, V. D. (*in prep*). Motivational factors underlying modulatory control of active avoidance.

Campese, V. D., **Kim, I. T.**, Sears, R. M., Farb, C., Hou, M., & LeDoux, J. E. (*in prep*). General and specific aversive modulation of active avoidance requires integration in central amygdala.

Campese, V. D., **Kim, I. T.**, Rojas, G., & LeDoux, J. E. (2017). Pavlovian extinction and recovery effects in aversive Pavlovian to instrumental transfer. *Frontiers in Behavioral Neuroscience*. doi: 10.3389/fnbeh.2017.00179

Conference Posters

Kim, I. T., Lee, M., Sehatpour, P., Corcoran, C. M., & Javitt, D. C. (2018). *Comparisons of mismatch negativity in clinical high risk and schizophrenia populations*. Presented poster at Cognitive Neuroscience Society.

Sehatpour, P., Hoptman, M., Kreither, J., Adair, D., Rohrig, S., Gowatsky, J., **Kim, I. T.**, Martinez, A., & Javitt, D. C. (2017). *Modulating motor cortical network interactions using transcranial direct current stimulation*. Organization for Human Brain Mapping.

Kim, T. I., Mei, N., Poeppel, D., & Flinker, A. (2015). *A new acoustic space for hemispheric asymmetries investigated by dichotic listening*. Presented poster at Society for the Neurobiology of Language.

Campese, V. D., **Kim, T. I.**, & LeDoux, J. E. (2015). *Prefrontal regulation of Locus Coeruleus flips the switch between reaction and action*. Pavlovian Society.

Kim, T. I., Poeppel, D., & Flinker, A. (2015). *Investigating the spectrotemporal modulations of speech*. Presented poster at NYU M.A. Research Conference.

AWARDS AND HONORS

2016	NYU Threesis Semi-finalist
2015	NYU M.A. Travel Award (\$500)
2015	NYU Graduate School of Arts and Sciences Dean's Student Travel Grant (\$500)
2015	NYU M.A. Poster Conference, First Place
2013	Sogang University Outstanding Writing Award

SERVICE, OUTREACH, AND NON-ACADEMIC WORK

2015	Orientation Panelist and Group Facilitator <i>Graduate School of Arts and Science, New York University</i> Representative for the M.A. Psychology program for incoming class of 2016
2015	Trevor Brain Fair, Trevor Day School Poeppel Lab, Neuroscience Outreach Group at NYU
2011 - 2012	Personnel Manager, Republic of Korea Army Mandatory military service

REFERENCES

Joseph E. LeDoux, Ph.D.

Professor
*Center for Neural Science and
Department of Psychology
New York University*

Director
*Emotional Brain Institute, Nathan Kline
Institute*

(212) 998-3937
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Vincent D. Campese, Ph.D.

Research Scientist
*Center for Neural Science
New York University*

(212) 998-3935
vc42@nyu.edu

David Poeppel, Ph.D.

Professor
*Department of Psychology and Center
for Neural Science
New York University*

Director
*Max Planck Institute of Empirical
Aesthetics in Frankfurt, Germany*

(212) 992-7489
dp101@nyu.edu

Adeen Flinker, Ph.D.

Assistant Professor
*Department of Neurology
NYU Langone Medical Center*

(646) 754-2228
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Daniel C. Javitt, M.D., Ph.D.

Professor and Director,
*Division of Experimental Therapeutics
Department of Psychiatry
Columbia University Medical Center*

Director
*Schizophrenia Research, Nathan Kline
Institute*

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Pejman Sehatpour, M.D., Ph.D.

Research Scientist
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