

# Curriculum Vitae

## Taehyeon Kim

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### Educational History

#### Master of Sciences in Neurobiology

Northwestern University

GPA: 3.69/4.00

May 2016

#### Bachelor of Sciences in Psychology

University of Illinois, Urbana-Champaign

GPA: 3.96/4.00

*summa cum laude*

*Highest Distinction in Psychology*

May 2013

May 2013

### Honors and Awards

Bronze Tablet

May 2013

University honors to recognize top 3% of students

Dean's List, five semesters

2009-2013

Elected member of an honor society

Phi Eta Sigma, Psi Chi, Alpha Lambda Delta

James E. Spoor Scholarship

Fall 2012

Recognition of outstanding academic achievement

LAS Course Abroad Scholarship

Fall 2011

Support as a participant of Global Studies Seminar Abroad to Peru

### Publications

Hankosky, ER, Sherrill, L. K., Ruvola, L. A., Haake, R. M., **Kim T.**, Hammerslag, L. R., Kougias, D. G., Juraska, J. M. & Gulley, J. M. Effects of  $\beta$ -methyl butyrate (HMB) on working memory and cognitive flexibility in an animal model of aging. Submitted.

Kougias, D. G., Nolan, S. O., Koss, W. A., **Kim T.**, Hankosky, E. R., Gulley, J. M. & Juraska, J. M. Beta-hydroxy-beta-methylbutyrate (HMB) ameliorates aging effects in the dendritic tree of pyramidal neurons in the medial prefrontal cortex of both male and female rats. Submitted.

Wise, L. M., Sadowki, R. N., **Kim, T.**, Willing, J. & Juraska, J. M. Long-term effects of adolescent exposure to Bisphenol A on neuron and glia number in the rat prefrontal cortex: Differences between the sexes and cell type. Submitted.

Chisholm, N. C., **Kim T.** & Juraska, J. M. (2013). Males, but not females, lose tyrosine hydroxylase fibers in the medial prefrontal cortex and are impaired on a delayed alternation task during aging. *Behavioural Brain Research*, 243, 239-246.

### Conference Abstracts

Kougias, D. G., Nolan, S. O., **Kim, T.**, Koss, W. A., Gulley, J. M., Juraska J. M., Long-term HMB supplementation ameliorates aging effects in the dendritic morphology of mPFC layer 5 pyramidal neurons in aged male and female rats. Society for Neuroscience annual meeting, Chicago, IL, 2015.

Willing, J., Brodsky, J. M., Cortes, L. R., **Kim, T.**, Juraska, J. M., Development of dopaminergic fibers in the medial prefrontal cortex of male and female rats during adolescence. Society for Neuroscience annual meeting, Chicago, IL, 2015.

Gulley, J. M., Hankosky, E. R., Ruvola, L. A., Sherrill, L. K., Keeley, C. J., Patel, R. A., Ghane, A. M., Hammerslag, L. R., **Kim, T.**, Kougias, D. G., Juraska, J. M., Effects of a bioactive nutrient on memory and cognitive flexibility in a rodent model of aging. Society for Neuroscience annual meeting, Washington D. C., 2014.

Juraska, J. M., Sherrill, L. K., Ruvola, L. A., Kofsky, N. M., Keeley, C. J., Ghane, M. A., Hankosky, E. R., Hammerslag, L. R., **Kim, T.**, Kougias, D. G., Gulley, J. M., The effects of daily supplementation of a bioactive nutrient on age-related declines in working memory in male and female rats. Society for Neuroscience

annual meeting, Washington D. C., 2014.

Willing J., **Kim T.**, Brodsky, J. M., Cortes, L. R., Juraska, J. M., The timing of neuroanatomical changes across adolescence in the male and female rat medial prefrontal cortex. Society for Neuroscience annual meeting, Washington D. C., 2014.

Wise, L. M., Sadowski, R. N., **Kim, T.**, Schantz S. L., Juraska J. M., Long-term effects of adolescent exposure to bisphenol A on neuron and glia number in the rat prefrontal cortex differs between the sexes. Society for Neuroscience annual meeting, Washington D. C., 2014.

**Kim, T.**, Sadowski R. N. & Juraska, J. M. (2013). Effects of Perinatal Exposure to BPA on Adult Hippocampal Volume. Annual Undergraduate Research Symposium, Champaign, IL, 2013.

## Research Experience

Northwestern University

Fall 2014 – Spring 2016

Supervisor: Dr. Yevgenia Kozorovitskiy

Thesis: *Effects of rapid acting antidepressants, ketamine and GLYX-13, on excitatory synapses*

Compared the effects of rapidly acting antidepressants on dendritic spines with and without long-term corticosterone administration

University of Illinois, Urbana-Champaign

Supervisor: Dr. Janice Juraska

Spring 2011 – Summer 2014

Honors thesis: *Effects of Perinatal Exposure to BPA on Adult Hippocampal Volume*

Discovered that exposure to the endocrine disruptor, bisphenol A (BPA), at various doses during perinatal period did not significantly affect the hippocampal volume in both male and female rats compared to the animals that received vehicle

Assessed rats' maternal behaviors, social play behaviors and radial arm maze response following perinatal BPA exposure

Studied effects of dietary supplement during aging on neuroanatomy and learning and memory using Golgi staining and Morris water maze test

Measured dopaminergic fiber density in the prefrontal cortex during adolescence and aging in both female and male rats

## Relevant Graduate Coursework

Psychology 433: Evolutionary Neuroscience

Psychology 413: Psychopharmacology

Psychology 496: Hormones and Brain Plasticity

Animal Science 440: Applied Statistical Methods I

Neurobiology 401: Introduction to Neurobiology

Neurobiology 402: Advanced Neurobiology

## Technical Skills

Surgeries

Ovariectomy

Tissue processing and staining

Perfusion

Nissl, Golgi, immunohistochemistry, DiI

Microscope analysis

Stereological immunohistochemistry analysis

Epifluorescent and confocal microscopy

Software

MATLAB, ImageJ, GraphPad, SPSS, SAS, Adobe Suite