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EDUATION

Ph.D., March 2010. University of Washington, Seattle, WA
Department of Psychology, Behavioral Neuroscience program
M.S., February 2001. Ajou University, Suwon, South Korea
Institute for Neural Science & Technology
B.S., February 1999. Ajou University, Suwon, South Korea
Department of Chemical Engineering & Biotechnology

RESEARCH EXPERIENCE

Research Scientist. McGovern Institute for Brain Research
Massachusetts Institute of Technology, Cambridge, MA, USA
Principal Investigator: Dr. Ann Graybiel, 07/2015 - present
Postdoctoral Fellow. McGovern Institute for Brain Research
Massachusetts Institute of Technology, Cambridge, MA, USA
Supervisor: Dr. Ann Graybiel, 2010 – 2015
Graduate Research Assistant. Behavioral Neuroscience, Psychology Department
University of Washington, Seattle, WA, USA
Supervisor: Drs. Ilene Bernstein and Sheri Mizumori, 2003 – 2010
Research Assistant. Behavioral Neuroscience, Psychology Department
Yale University, New Haven, CT, USA
Supervisor: Dr. Jeansok Kim, 2002 – 2003
Graduate Research Assistant. Institute for Neural Science & Technology
Ajou University, Suwon, South Korea
Supervisor: Dr. Min Whan Jung, 1999 – 2002

PUBLICATIONS

KB Ramadi , C Dagdeviren , P Bhagchandani , C Nunez-Lopez , **MJ Kim** , RS Langer , AM Graybiel , MJ Cima (2020) Simultaneous recording and marking of brain microstructures. *J Neural Eng*, 17(4):044001.

HN Schwerdt, E Zhang, **MJ Kim,** T Yoshida, L Stanwicks, S Amemori, HE Dagdeviren, R Langer, MJ Cima, AM Graybiel (2018) Cellular-scale probes enable stable chronic subsecond monitoring of dopamine neurochemicals in a rodent model. *Commun Biol*, 1:144.

HN Schwerdt, **MJ Kim,** S Amemori, D Homma, T Yoshida, H Shimazu, H Yerramreddv, E Karasan, R Langer, AM Graybiel, MJ Cima (2017) Subcellular probes for neurochemical recording from multiple brain sites. *Lab Chip*, 17(6):1104-1115.

J Han, JH Lee, **MJ Kim**, MW Jung (2013) Neural activity in mediodorsal nucleus of thalamus in rats performing a working memory task. *Front Neural Circuits*, 7:128.

MJ Kim, SJY Mizumori, IL Bernstein (2010) Neuronal representation of conditioned taste in the basolateral amygdala of rats. *Neurobiol Learn Mem*, 93(3):406-14.

CB Puryear, **MJ Kim**, SJY Mizumori (2010) Conjunctive encoding of reward and movement by ventral tegmental area neurons: contextual control during adaptive spatial navigation. *Behav Neurosci.*124(2):234-47.

LS Zweifel, JG Parker, CJ Lobb, A Rainwater, VZ Wall , JP Fadok, M Darvas, **MJ Kim**, SJ Mizumori, CA Paladini, PE Phillips, RD Palmiter (2009) Disruption of NMDAR-dependent burst firing by dopamine neurons provides selective assessment of phasic dopamine-dependent behavior. *PNAS*, 106(18): 7281-8.

MW Jung, EH Baeg, **MJ Kim**, YB Kim, JJ Kim (2008) Plasticity and memory in the prefrontal cortex. *Rev Neurosci*, 19(1):26-46.

MJ Kim, SK Chun, YB Kim, I Mook-Jung and MW Jung (2003) Long-term potentiation in visual cortical projections to the medial prefrontal cortex of the rat. *Neuroscience*, 120(1):283-9.

MJ Kim, YB Kim, KJ Kang, JH Oh, Y Kim and MW Jung (2003) Neuronal interactions are higher in the cortex than thalamus in the somatosensory pathway. *Neuroscience*, 118(1):205-16.

HONORS, AWARDS, AND ACTIVITY

06/18 – current Research project funded by CHDI Foundation
07/11 – 06/15 Bumpus Foundation Fellowship
10/07 – 06/09 Royalty Research Fund award, University of Washington
07/07 – 09/07 ALCOR Graduate Student fellowships, Psychology, UW
07/04 Summer program (Lecture courses), RIKEN, Japan
03/99 – 02/01 Graduate School Awards, Ajou University