Anmo J. Kim

Curriculum Vitae

The Rockefeller University
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Current Position

Postdoctoral Associate, Laboratory of Integrative Brain Function (Head of Lab: Dr. Gaby Maimon), The Rockefeller University

Education

2010 *Ph.D.*, Department of Electrical Engineering, Columbia University
– Supervisor: Drs. Aurel A. Lazar and Richard Axel
– Dissertation: *Information processing and representation in the Drosophila early olfactory system*

2002 *M.S.*, Department of Electrical Engineering, Seoul National University, South Korea
– Supervisor: Dr. Wook-Hyun Kwon
– Thesis: *RT-CORBA based open controller for distributed automation systems*

2000 *B.S.*, Department of Electronic Engineering, Sung-Kyun-Kwan University, South Korea

Short Programs

1999 Samsung Advanced Technology Training Course - Windows Device Driver

1998 Samsung Advanced Technology Training Course - Programmable Integrated Circuit

Professional Affiliations

2011-2017 *Postdoctoral associate*, The Rockefeller University

2007-2010 *Research assistant*, Columbia University

2004-2006 *Teaching assistant*, Columbia University
Introduction to Electrical Engineering (2006), Information Theory (2005), Introduction to Genomic Information Science and Technology (2005), Communication Systems (2004)

2002-2003 *Hardware engineer*, Piolink Inc., South Korea

2000-2001 *Research assistant*, Seoul National University, South Korea

1997-1998 *Research assistant*, LG Telecom Inc., South Korea

Publications

Peer-Reviewed Journal Papers

Kim, A.J.*, Fenk, L.M.*, Lyu, C., & Maimon, G. (2017) Quantitative predictions orchestrate visual signaling in *Drosophila*, *Cell* , *168*, 280–294. * Equal contribution

Kim, A.J., Fitzgerald, J.K., & Maimon, G. (2015). Cellular evidence for efference copy in *Drosophila* visuomotor processing, *Nature Neuroscience*, *18*, 1247–1255.

Kim, A.J., Lazar, A.A., & Slutskiy, Y.B. (2015). Projection neurons in *Drosophila* antennal lobes signal the acceleration of odor concentrations, *eLife*, 4:e06651.

Kim, A.J., Lazar, A.A., & Slutskiy, Y.B. (2011). System identification of *Drosophila* olfactory sensory neurons, *Journal of Computational Neuroscience*, *30*, 143–161.

Book Chapter & Review

Kim, A.J. (2017). Descending neurons in *Drosophila*: Bridging the gap between vision and action , *Journal of Neuroscience 37*, 3738-3740.

Kim, A.J. & Lazar, A.A. (2010). Recovery of stimuli encoded with a Hodgkin-Huxley neuron using conditional PRCs, In N.W. Schultheiss, A.A. Prinz, & R.J. Butera *Phase Response Curves in Neuroscience* (257–278), New York: Springer.

Invited Seminars

Columbia University (2017) Columbia Workshop for Brain Circuits, Memory and Computation, Title: Quantiative predictions in a *Drosophila* visuomotor network

New York University (2015) SPiNES (Seminars by Postdocs in Neuroscience),
Title: Dynamic silencing of *Drosophila* vision during rapid flight turns

Conference Oral Presentations

Kim, A.J., Fenk L.M., Lyu C., & Maimon, G. (2017). Quantitatively-tuned internal predictions in a *Drosophila* visuomotor network, *Cosyne*.

Kim, A.J., Fenk L.M., Lyu C., & Maimon, G. (2016). Direction-specific silencing of the *Drosophila* gaze stabilization system, *Computational Neuroscience Meeting*.

Kim, A.J., Fitzgerald, J.K., & Maimon, G. (2015). Cellular evidence for efference copy in *Drosophila* visuomotor processing, *CSHL Neurobiology of Drosophila*.

Kim, A.J., Fitzgerald, J.K., & Maimon, G. (2015). Cell-type tailored silencing of fly vision during flight turns, *Janelia Insect Vision Meeting*.

Kim, A.J., Lazar, A.A., & Slutskiy, Y.B. (2011). *Drosophila* projection neurons encode the acceleration of time-varying odor waveforms, *Cosyne*.

Kim, A.J., M.S. Ryou & W.H. Kwon (2001). Introduction of RT-CORBA into industrial automation systems, *International Conference on Control, Automation and Systems*.

Conference Poster Presentations

Kim, A.J., Fenk, L.M., & Maimon, G. (2015). Motor-related inputs to a population of optic flow-processing neurons during flight saccades, *Janelia Insect Vision Meeting*.

Kim, A.J., Maimon, G. (2014). Dynamic motor-related Inputs to visual interneurons in *Drosophila*, *Cosyne*.

Kim, A.J., Lazar, A.A., & Slutskiy, Y.B. (2010). System identification of the DM4 glomerulus in the *Drosophila* antennal lobes, *Computational Neuroscience Meeting*.

Kim, A.J., Lazar, A.A., & Slutskiy, Y.B. (2010). 2D encoding of concentration and concentration gradient in *Drosophila* ORNs, *Cosyne*.

Kim, A.J. & Lazar, A.A. (2009). Recovery of stimuli encoded with a Hodgkin-Huxley neuron using conditional PRCs, *Computational Neuroscience Meeting*.

Honors & Awards

2016	*Travel Grant Award*, Korean Society for Molecular and Cellular Biology
2016	*Travel Grant Award*, Organization for Computational Neuroscience (OCNS)
2015	*SPiNES Lecture*, SPiNES Committee, New York University (awarded to senior postdocs in neuroscience)
2009	*Travel Grant Award*, Computational and Systems Neuroscience (Cosyne)
2009	*Travel Grant Award*, Organization for Computational Neuroscience (OCNS)
2006	*Extraordinary Teaching Assistant Award*, Columbia University
1997-1999	*Academic Excellence Scholarship*, Sung-Kyun-Kwan University