

Lyle Kingsbury

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EDUCATION

Ph.D. University of California Los Angeles Neuroscience	2021
B.A. Hunter College — City University of New York Biological Sciences (Bioinformatics concentration)	2015
Eugene Lang College — The New School Interdisciplinary Science	2011 - 2012

HONORS AND AWARDS

Harold M. Weintraub Graduate Student Award Annual award recognizing outstanding achievement during graduate study in the biological sciences	2021
UCLA Samuel Eiduson Student Lecture Award Annual award given to one UCLA neuroscience PhD student for outstanding thesis work	2020
UCLA Brain Research Institute & Semel Institute SfN Travel Award	2019
F31 Ruth L. Kirschstein National Research Service Award (NRSA)	2018 - 2021
T32 NINDS/NIH Training Program in Neural Microcircuits	2017 - 2018
Achievement Awards for College Scientists (ARCS) Fellowship	2016 - 2019
Hunter College Else Seringhaus Award in Biological Sciences Given for excellence in biology research and coursework	2015
Most Outstanding Research Award Best poster presentation at the Hunter College Undergraduate research conference	2014
Hunter College Thomas Hunter Honors Program	2013 - 2015

RESEARCH EXPERIENCE

Doctoral Research (UCLA) Advisor: Dr. Weizhe Hong Projects: Studied cortical encoding of social sensory cues and control of social behavior using in vivo microendoscope calcium imaging and optogenetic manipulations. Studied inter-brain neural dynamics during social interaction using dual calcium imaging in freely behaving animals.	2016 - 2021
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Undergraduate Research (Hunter College CUNY)

2013 - 2015

Advisor: Dr. Carmen Melendez-Vasquez

Projects: Studied the cellular mechanisms of myelin formation in glial cells using analysis of gene expression, localization of transcription factors, and cell morphology.

NSF TECBio REU (University of Pittsburgh)

2014 Summer

Advisor: Dr. James Faeder

Projects: Constructed biophysical models to investigate the mechanisms underlying antigen recognition in T-cells and used network models to explore how T-cell receptor clustering regulates antigen search efficiency.

NSF CMACS with Dr. Nancy Griffith (Lehman College CUNY)

2014 Winter

Advisor: Dr. Nancy Griffith

Projects: Developed and expanded computational models of cancer signaling pathways and studied the effects of oncogenic point mutations on cell proliferation.

PUBLICATIONS

Kingsbury, L.*, Huang, S.*, Wang, J., Gu, K., Golshani, P., Wu, Y. E., & Hong, W. (2019). Correlated Neural Activity and Encoding of Behavior across Brains of Socially Interacting Animals. **Cell**, 178(2), 429-446.e16. (*Equal Contribution)

-Highlighted by Omer, Zilkha, and Kimchi. *Cell*. (2019) 178, 272-274

Kingsbury, L.*, Huang, S.*, Raam, T., Ye, L. S., Wei, D., Hu, R., Ye, L. & Hong, W. (2020). Cortical Representations of Conspecific Sex Shape Social Behavior. **Neuron**. (*Equal Contribution)

Kingsbury, L. & Hong, W. A Multi-Brain Framework for Social Interaction. (2020). **Trends in Neurosciences**.

Wu, Y.E., Dang, J., **Kingsbury, L.**, Zhang, M., Sun, F., Hu, R.K., Hong, W. (2021). Neural Control of Affiliative Touch in Prosocial Interaction. *Nature*.

Urbanski, M. M., **Kingsbury, L.**, Moussouros, D., Kassim, I., Mehjabeen, S., Paknejad, N., & Melendez-Vasquez, C. V. (2016). Myelinating glia differentiation is regulated by extracellular matrix elasticity. **Scientific Reports**, 6(1), 33751.

Lin, A., Vajdi, A., Kushan-Wells, L., Helleman, G., Hansen, L. P., Jonas, R. K., Jalbrzikowski M., **Kingsbury, L.**, Raznahan, A., Bearden, C. E. (2020). Reciprocal copy number variations at 22q11.2 produce distinct and convergent neurobehavioral impairments relevant for Schizophrenia and Autism Spectrum Disorder. **Biological Psychiatry**.

PRESENTATIONS

Kingsbury, L., Huang, S., Wang, J., Gu, K., Golshani, P., Wu, Y.E., and Hong, W. "Interbrain Neural Dynamics in Socially Interacting Animals" *Computational and Systems Neuroscience (Cosyne)*. (2020)

Kingsbury, L., Huang, S., Wang, J., Gu, K., Golshani, P., Wu, Y.E., and Hong, W. "Neural Synchronization across Brains of Socially Interacting Animals" *Society for Neuroscience*. (2019)

Kingsbury, L., Hong, W. “Encoding of Social Information in Cortical Ensembles” *Conference on Collective Computation in Biological Systems, Janelia Research Campus.* (2018)

Kingsbury, L., Hong, W. “Neural Mechanisms of Social Behavior” *Computational Neuroscience Workshop, RIKEN Brain Science Institute.* (2017)

Kingsbury, L., Hong, W. “Neural Mechanisms of Social Behavior” *Neural Microcircuits Symposium, UCLA.* (2017)

Kingsbury, L., Urbanski, M.M., Mehjabeen , S., Melendez-Vasquez C.V. “Mechanical cues from extracellular matrix regulate Olig1 localization in oligodendrocytes.” *Undergraduate Research Conference, Hunter College.* (2014)

Kingsbury, L., Faeder, J.R., Anikeeva, N. “Understanding antigen recognition in T-cells using a rule-based model.” *Summer Research Symposium, Duquesne University.* (2014)

TEACHING EXPERIENCE

Systems Neuroscience (Neuro M205 – UCLA) Winter 2020
Teaching assistant for a graduate systems neuroscience course covering sensory processing and perception, computational models of learning and memory, cognitive and executive functions, and motor control.

Neurophysiology (Neuro M202 – UCLA) Fall 2017
Teaching assistant for a graduate neurophysiology course covering electrical signaling in neurons, ion homeostasis, computational models of action potentials, synaptic transmission, and sensory perception.

Neuroscientific Methods (Neuro 210B – UCLA) Winter 2017
Teaching assistant for a seminar style graduate neuroscience methods course covering the basis and applications of modern neuroscientific techniques.

Functional Neuroanatomy (Neuro 201 – UCLA) Fall 2016
Teaching assistant for an undergraduate neuroanatomy course. Developed and lead laboratory exercises, course materials, and group lessons.