

KELVIN M. LIU-HUANG

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TOPICS: ML; structure learning; AI; modeling and simulation; computer vision; personalized medicine; computational biology; semantics and reasoning; phonology and morphology

EDUCATION

Carnegie Mellon University (CMU), Pittsburgh, PA 2013 - Now
University of Pittsburgh, Pittsburgh, PA 2013 – Now
Joint CMU-Pitt Ph.D. Program in Computational Biology (CPCB)
University of California, San Diego, CA 2009 – 2013
B.S. Computer Science: Bioinformatics

PUBLICATIONS/PRESENTATIONS

K. M. Liu-Huang, T. H. Lee, R. F. Murphy. “Learning a Generative Model of Endoplasmic Reticulum Structure from Fluorescence Microscope Images.” Manuscript submitted to RECOMB 2018. 2017
A. Stoica, K. M. Liu-Huang, H. J. Suh, S. Martin, S. M. Hewitt, S. Bechtel. “Mealy Machine Implementation of a Humanoid-Oriented Movement Writing.” Manuscript in revision. 2017
K. M. Liu-Huang, T. H. Lee, G. K. Rohde, and R. F. Murphy. “Direct Learning of a Generative Model for Endoplasmic Reticulum Distribution from Fluorescence Microscopy Images.” Invited Speaker for *CYTO 2016*, Seattle, WA, USA 2016
K. M. Liu, G. Galletti, K. Cleveland, M. Shah, P. Giannakakou, and R. F. Murphy. “Predicting docetaxel-sensitivity in gastric cancer by automated image analysis.” Poster session presented at: *MMBioS External Advisory Board Meeting for NIH Biomedical Technology & Research Resource (BTRR)*; Pittsburgh, PA 2015
K. Liu, S. Navlakha, S. Chandrasekaran, A. L. Barth, and Z. Bar-Joseph. “Synapse detection and characterization with electron microscope.” Poster session presented at: *RECOMB 2014. 18th Annual International Conference on Research in Computational Molecular Biology*; Pittsburgh, PA 2014

TEACHING

Teaching Assistant (Programming for Scientists), *CMU* Jan-May 2017
Teaching Assistant (Introduction to Computational Biology), *CMU* Jan-May 2015
Paid Private Tutor (Java), *San Diego, CA* Jan-Apr 2012
Paid Private Tutor (SPARC architecture), *San Diego, CA* Jan-Mar 2011

EXPERIENCE

Research Intern, Stoica Group, Jet Propulsion Laboratory, Pasadena, CA 2017 - Now
Senator, CPCB Graduate Student Assembly (GSA) 2015–2016
Ph.D. Student, Murphy Lab, Computational Biology, *Carnegie Mellon University, Pittsburgh, PA* 2014 - Now
Intramural Sports Coach, *CMU* 2014–Now
Research Assistant, Feifel Lab, Psychiatry, *University of California, San Diego, CA* 2012 - 2013
Founder and President, Bioinformatics Club at UCSD (UBIC) 2012–2013