LYNN YI

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EDUCATION

Ph.D. Candidate in Biology
California Institute of Technology, Expected 2019
GPA: 4.00

M.D. Candidate
University of California, Los Angeles, Expected 2021
USMLE Step 1: 259

A.B. in Physics
Harvard University
Minor in Computer Science, GPA: 3.76

PUBLICATIONS

Yi L, Pimentel H, Bray NL, Pachter L. Gene-level differential analysis at transcription-level resolution. bioRxiv, 2017. [In Review]

Yi L, Pimentel H, Pachter L. Zika infection of neural progenitor cells perturbs transcription in neurodevelopmental pathways. PLoS One, 2017 Apr 27; 12(4).

Durcanova B, Diaz-Aguilar D, Parker E, Lee J, **Yi L**, Silverman D. Optimal Strategies for Using Amyloid Imaging and FDG PET in Prognostic Evaluation of Mild Cognitive Impairment (MCI). Journal of Nuclear Medicine 56 (supplement 3), 192-192.

Yi L, Lee J, Diaz-Aguilar D, Durcanova B, Dahlbom M, Silverman D. Which ADNI2 subjects with mild cognitive impairment (MCI) will undergo most imminent decline in Mini Mental State Examination (MMSE) performance? Journal of Nuclear Medicine 56 (supplement 3), 1560-1560.

AWARDS, HONORS AND FELLOWSHIPS

2013-2021: NIH Medical Scientist Training Program, UCLA

2016-2018: NIH NRSA T32 Fellowship, Caltech

2017: The Lee Ramo Fund, Caltech

2015-2016: The Walter and Sylvia Treadway Endowment for Careers in Medicine, Caltech

2012: AB with magna cum laude, Harvard Department of Physics

2008-2012: Robert C. Byrd Honors Scholarship, U.S. Department of Education

2011: Howard Hughes Medical Institute Interdisciplinary Undergraduate Fellowship, Harvard

2010: Fels Fellowship in Physics, Harvard University

2010: Harvard College Research Fellowship, Harvard University

PRESENTATIONS AND TALKS

Talk at UCLA-Caltech MSTP Tutorial (2017).

Talk to Caltech Biolunch (2017).

Poster at UCLA-Caltech MSTP Research Conference at UCLA (2017).

Talk at Northern Computational Biology Conference at UC Berkeley (2016).

Talk at Harvard PRISE (2011).

Poster at Harvard Systems Biology Summer Student Poster Session (2011).

Talk at Women in Physics at MIT (2011).

RESEARCH EXPERIENCE

Graduate Research Student   Aug 2016 - Present
Advisor: Lior Pachter   *Pasadena, CA*

· Develop statistical methods and algorithms to analyze RNA-Seq.
· Collaborate with Allen Institute for Brain Science to develop brain atlas using single cell RNA-Seq.

Graduate Rotation Student   June 2015 - Aug 2015
Advisor: Eleazar Eskin   *Los Angeles, CA*

· Developed algorithm to determine genetic contributions to allele specific expression.

Graduate Rotation Student   June 2014 - Aug 2014
Advisor: Long Cai   *Pasadena, CA*

· Developed single molecule fluorescent in-situ hybridization to examine spatial expression patterns of molecular signatures.

Undergraduate Research Student   April 2010 - June 2012
Advisor: Erin O'Shea   *Cambridge, MA*

· Studied cis-acting elements of the 5' untranslated region (5'UTR) that regulated translation efficiency.

OTHER EXPERIENCE

Software Developer   July 2012 - July 2013
Ziff Brothers Investments   *New York, NY*

· Full-stack developer for investment company's internal programs, including investment data and employee records.

Software Developer   Jan 2012
Massachusetts General Hospital   *Boston, MA*

· Developed portal tool for ED doctors to gather information through EMR records.

TEACHING EXPERIENCE

Courses TAed

· Introduction to Computational Biology and Bioinformatics, Caltech (Bi/BE/CS 183, Winter 2017)
· Tissue and Organ Physiology, Caltech (Bi 145, Winter 2015)
· Peer Tutor, David Geffen School of Medicine (2014-2015)
· Multivariate Calculus, Harvard (Math 21a, Fall 2009)

OTHER

Participated in inaugural UCLA Ronald Reagan Hospitalist Program (Summer 2014).

Fluent in Chinese. Experience with French.

Fluent in R, python. Experience with Java, C, web programming.