Lillian J. Horin

Curriculum Vitae

Harvard University Cambridge, MA lillianhorin.com

EDUCATION

Harvard University

Ph.D. Candidate, Biological and Biomedical Sciences Ph.D Program

Cambridge, MA
2017-present

Pitzer College Claremont, CA

B.A. Biology with Honors, Chemistry minor

Senior Thesis: Spatio-Temporal Activity of Key Warburg Effect Genes in the Retina

La Academia Latinoamericana de Español

Spanish Certification Level: Superior

Quito, Ecuador

2013-2017

Spring 2015

HONORS AND AWARDS

- 2016 SACNAS National Conference Travel Scholarship (2016)
- Goldwater Scholarship for Excellence in Science (2016)
- First Place in APS Comparative & Evolutionary Physiology Section Scholander Award (2016)
- David S. Bruce Excellence in Undergraduate Research Award (2016)
- David S. Bruce Outstanding Undergraduate Abstract Award (2016)
- Outstanding Undergraduate Poster Presentation in Physiology/Pathology, SACNAS Conference (2015)
- 2015 SACNAS National Conference Travel Scholarship (2015)

RESEARCH EXPERIENCE

Harvard Medical School

2018-Present

PhD Student

Advisors: Timothy Mitchison and Joseph Italiano

Harvard Medical School - HHMI EXROP Intern

Summer 2016

HHMI EXROP Intern Advisor: Constance Cepko

- Identified putative gene enhancers in the retina through analysis of UCSC Genome Browser data
- Designed primers for amplification of mouse genome and cloned amplicon into plasmids
- Harvested, imaged, and stained mouse pup and adult mouse retinas

University of California, Merced

Summer 2015

IOSP Fellow

Advisor: Rudy Ortiz

- Characterized changes in protein concentration of CD36 in northern elephant seal pups in response to thyroid-stimulating hormone
- Optimized western blot conditions for use with northern elephant seals adipose tissue
- Statistically analyzed changes in concentration of CD36 and plasma insulin and glucose

PROFESSIONAL ORGANIZATIONS

American Physiological Society (APS), American Society for Biochemistry and Molecular Biology (ASBMB), Sigma Xi, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

FELLOWSHIPS

Ford Foundation Predoctoral Fellowship	2017-2022
National Science Foundation Graduate Research Fellowship (NSF GRFP)	2017-2022
• Exceptional Research Opportunities Program (EXROP), Howard Hughes Medical Institute	2016
• Integrative Organismal Systems Physiology (IOSP) Undergraduate Summer Research	2015
Fellowship, American Physiological Society	

MENTORSHIP AND COMMUNITY ENGAGEMENT

Health Professions and Recruitment & Exposure Program (HPREP), Harvard Medical School Mentor

2017-Present

- Directly mentored an HPREP student in essay writing and presentation delivery
- ullet Implemented a socially inclusive professionalism workshop that was rated 4.6/5 for long-term usefulness by the inaugural class

Survey Analyst 2017-2018

- Designed surveys administered to HPREP volunteers and students in order to gauge usefulness, support, fulfillment, and clarity of each HPREP session
- Briefed program executives on quantitative and qualitative survey data results
- Presented suggestions to improve program functioning that was incorporated into the governing structure for the following HPREP session

RELATED PROFESSIONAL EXPERIENCE

 Graphic Designer, Science in the News, Harvard University 	2017-2019
 Writing Center Fellow (Fellowship Consultant), Pitzer College 	2016-2017
• Resident Assistant, Office of Student Affairs, Pitzer College	2014-2016

INVITED TALKS

Horin, L.J. "Broadening Participation and Increasing Retention of Underrepresented Students in STEM Programs: An Undergraduate Perspective." Oral presentation delivered at the NSF Integrative Organismal Systems (IOS) Broadening Participation (BP) PI Meeting, Bethesda, MD, September 21, 2015.

PUBLICATIONS

Martinez, B., Soñanez-Organis, J. G., Godoy-Lugo, J. A., **Horin, L. J.**, Crocker, D. E., & Ortiz, R. M. (2017). Thyroid hormone-stimulated increases in PGC-1α and UCP2 promote life history-specific endocrine changes and maintain a lipid-based metabolism. *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology*, 312(2), R189–R196.

CONFERENCE PRESENTATIONS

Horin, L.J., Chinchore Y., & Cepko C. Spatio-temporal activity of enhancer elements in key photoreceptor Warburg effect genes. Poster presentation delivered at the Society for the Advancement of Chicanos and Native Americans in Science National Conference, Long Beach, C.A., October 14, 2016.

Horin, L.J., Martinez B., Crocker D.E., & Ortiz R.M. Glucose-stimulated insulin secretion is delayed after infusion of thyroid-stimulating hormone in prolonged-fasting northern elephant seal pups. Poster presentation delivered at the Experimental Biology 2016 Meeting, San Diego, CA, April 2–6, 2016.

Horin, L.J., Martinez B., Crocker D.E., & Ortiz R.M. Protein expression of CD36 increases after infusion of thyroid-stimulating hormone during prolonged-fasting in northern elephant seal pups. Poster presentation delivered at the Society for the Advancement of Chicanos and Native Americans in Science National Conference, Washington D.C., October 30, 2015.