Sebastian D. Herrera

Graduating medical student, researcher, and data engineer

sdherr@bu.edu

www.sdherrera.com

(917) 442-1833

Experience

Boston University

Lab Assistant 2016-17

Investigated the role of specific transcriptional coactivators in melanoma cell proliferation and invasion.

Identified potential downstream targets via RNA sequencing of various cell lines.

Universitat de València

Lab Assistant 2013

Investigated cellular differentiation and morphology of neural stem cells.

Designed in situ hybridization experiments to detect gene expression in subventricular zone of mouse brain.

University of California, San Diego

Lab Assistant 2012

Designed and ran prepulse inhibition experiments to investigate disruptive action of dopamine agonists on sensorimotor gating.

Received funding via NIMH Research Supplement to Promote Diversity.

Brigham and Women's Hospital

Research Intern 2009

Contributed to study investigating neurotoxic properties of benzodiazepines in rat model.

Projects

BUSM Dept. of Surgery 2020-

Develop multi-state model for hernia patients to optimize surgical referral process for cost and time.

Analyze clinical notes using NLP methods.

BUSM Dept. of Radiology/Zebra Medical Vision 2019-

Process and curate electronic medical record (EMR) data.

Use ML techniques to triage screening mammograms and reduce false positives.

Education

Boston University School of Medicine

Doctor of Medicine, anticipated 05/21

Amherst College

Bachelor of Arts, 05/14

Licensure

Step 1	05/18
Step 2CK	06/19
Step 2CS	09/19

Skills

Writing

Scientific manuscripts
Science writing
Documentation
Translation (Spanish-English)

Communication

Public speaking
Scientific, case presentations
Medical interpreting (Spanish)

Technology

Python	SQL
Ruby/Rails	Git
JavaScript	AWS
HTML/CSS	Docker

Sensive 2019

Built on-demand image processing server and CI/CD pipeline for a tech startup focusing on multimedia assets, resulting in significant reduction of resources spent by the main servers.

Convos 2014-16

Helped to research, prototype, and develop a communications platform using modern web technologies.

Publications

Swerdlow, N. R., Hines, S. R., **Herrera, S. D.**, Weber, M., & Breier, M. R. (2013). Opposite effects of tolcapone on amphetamine-disrupted startle gating in low vs. high COMT-expressing rat strains. Pharmacology Biochemistry and Behavior, 106, 128-131.