

Leo Epstein

PhD Student, Bioinformatics and Computational Biology(BCB), University of Idaho

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EDUCATION

University of Idaho Moscow ID

PHD expected 2021

Hampshire College Amherst MA, B.S. Evolutionary Biology

2015

EMPLOYMENT

University of Pennsylvania

LAB TECHNICIAN : Lab of Junhyong Kim (Phila, PA)

2016

Developed protocol that uses RNA expression to determine Copy Number Variation genotype in single cells. Used differential exon usage to investigate biology of cell phenotype type clustering

LAB TECHNICIAN : Lab of Harvey Rubin (Phila, PA)

2015

Investigated evolution of NDH protein family across genus *Mycobacterium* to better understand Dormancy response of *M.tuberculosis*.

RESEARCH EXPERIENCE

Hampshire College

SENIOR THESIS

Advisors: Lynn Miller, Charles Ross

Title: Population dynamics within a prospective *Gryllus* hybrid zone

University of Pennsylvania

RESEARCH ASSISTANT : Lab of Jim Gee (Phila, PA)

Summer 2014

Worked on Quants project writing a program to screen out aberrant voxels in brain image datasets.

LAB TECHNICIAN : Lab of Harvey Rubin (Phila, PA)

Summer 2011-2013

Screened compounds for antibiotic effects on *M.smegmatis*. Generated kill curves and determined drug mechanism of action.

JUNIOR ASSISTANT : Lab of Harvey Rubin (Phila, PA)

Summer 2008-2009

Created a recombinant expression system of mycobacterial ATP synthase.

SKILLS

Programming: Python, R, scientific programming

Molecular Biology: Western Blots, PCR, bacterial transformation, BCA assay, ATP hydrolysis assay

REFERENCES

avliable upon request