

EXPERIENCE

- 2011–present **COLD SPRING HARBOR LABORATORY** Cold Spring Harbor, NY
Ranked #1 in the world by Reuters for impact of research in molecular biology and genetics
Ph.D. Student
- Defined a biological role for prion mechanisms by identifying prion-like gene *pqn-59* as suppressor of heterochronic development in microRNA mutants
 - Initiated a novel smRNA-based therapeutic approach for poor prognosis melanoma
 - Nominated as lab liaison to Merck & Co. pharmaceutical company
 - Recruited several venture capitalists to the lab to discuss funding biotech start-ups
- 2010–2011 **HOWARD HUGHES MEDICAL INSTITUTE** New York, NY
#1 private funder of biomedical research
Research Technician
- Performed experiments that led to publication of x-ray crystallographic structure of human Argonaute 2 in *Cell* (2012)
 - Learned how the largest organizational consumers of biotech products establish supplier relationships by attending HHMI procurement strategy meetings
- 2009–2010 **THERMO FISHER SCIENTIFIC** Lancaster, PA
Fortune 500 leader in life science analytical instrumentation and advisory services
Staff Scientist, Biopharmaceutical Division, (now Eurofins Lancaster Laboratories)
- Provided analytical and advisory services to large and medium-cap biopharma companies
 - Ensured legal soundness and FDA compliance of data by use of statistical and modeling platforms StatLIA, Excel, SoftMax & MATLAB
- 2007–2009 **MISSION RESEARCH** Lancaster, PA
Socially responsible software development start-up
Software test engineer (part-time, during undergrad)
- Authored testing scripts that eliminated hundreds of bugs in database management product
 - Streamlined product integration with QuickBooks
 - Product earned “Awesome QuickBooks Add-on” award from Sleeter Group (2007)
 - Offered double pay to return to the company on consultant basis to help team meet deadlines

EDUCATION

- 2011–present **COLD SPRING HARBOR LAB & STONY BROOK UNIVERSITY** Stony Brook, NY
PhD, Molecular & Cellular Biology, in progress
- Teaching assistant to over 800 Human Biology students; supervised 30 teaching assistants
 - Recruited back by faculty supervisor due to superb course management
- 2007–2009 **NON-TARGET UNIVERSITY** Small Town, PA
BS, Molecular Biology & Biotechnology, 2009
- Faculty-recruited to provide writing mentoring in university writing center

OTHER HIGHLIGHTS

- National Merit Commended Scholar (top 3% on PSAT-NMSQT aptitude test) (2004)
- Valedictorian of Allied Health Science fellowship program for academically-talented students
 - 400+ hrs mentoring in clinical medicine, healthcare administration, pharmaceuticals
- Alma Newlin Scholarship for exceptional promise in biosciences & healthcare (2004)
- Interests: microfinance- spent 3 months in Mozambique, 2 weeks in Peru