

LESLIE ANN JARAMILLO KOYAMA

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EDUCATION

Stanford University School of Medicine Stanford, CA

Doctor of Philosophy, expected June 2019 **Department:** Developmental Biology

Barnard College, Columbia University New York, NY

Bachelor of Arts *Cum Laude*, May 2013 **Major:** Biology **GPA:** 3.72/4.0

AWARDS AND HONORS

23andMe DNA Day Essay Contest Winner Stanford, CA (April 2014)

Amgen Scholars Program, Columbia University/Barnard College New York, NY (May 2012 - August 2012)

Dean's List, Barnard College, Columbia University New York, NY (Fall 2009 - Spring 2010; Fall 2011 - Spring 2013)

U.S. Department of Homeland Security HS-STEM Internship, Sandia National Laboratory Livermore, CA (May 2011 - July 2011)

RESEARCH EXPERIENCE

Stem Cell Biology, Stanford School of Medicine, Stanford, CA (June 2014 - Present)

Graduate Student, Advisor: Lucy Erin O'Brien, PhD

- Using live imaging techniques to study immediate cell responses to localized injury in the adult *Drosophila* midgut.

Microbiology, Columbia University, New York, NY (September 2011-May 2013)

Undergraduate Research Assistant, Mentor: Lars Dietrich, PhD

- Studied biofilm morphogenesis and patterning in *Pseudomonas aeruginosa* PA14
- Senior thesis research (Fall 2012-Spring 2013)
 - Developed a novel method for thin sectioning *P. aeruginosa* colonies to study expression patterns of signaling molecule transporter proteins.
 - This work was done in collaboration with Dr. Jennifer Mansfield of Barnard College.
- Amgen Scholar (Summer 2012)
 - Deleted genes encoding putative transporter proteins of interest and characterized the effects of these deletions on colony morphology and phenazine transport.
- Fall 2011-Spring 2012
 - Helped to develop novel techniques for separating and quantifying redox-active, signaling molecules known as phenazines.
 - Performed colony morphology assays and quantified phenazine secretion to screen for transporter proteins thought to be involved in the import and export of phenazines.

Cancer Biology, Sandia National Laboratory, Livermore, CA (May 2011-July 2011)

Department of Homeland Security Intern, Mentor: Eiza Yu, PhD

- Studied protein-protein interactions in the Base Excision Repair (BER) pathway. Specifically focused on interactions between apurinic-apyrimidinic endonuclease1 (APE1) and β -polymerase

POSTERS / PRESENTATIONS

Koyama, L., O'Brien, L. "Live imaging of cell responses to localized wounding in the adult *Drosophila* midgut". *Poster*. Developmental Biology Departmental Retreat, Stanford University School of Medicine, Stanford, CA (September 2014)

Koyama, L., Sahktah, H., Dietrich, L. "Characterizing the Roles and Regulation of 5-MCA in Mediating *Pseudomonas aeruginosa* PA14 Biofilm Development". *Speaker*. Senior Thesis Presentation, Barnard College, New York, NY (May 2013)

Koyama, L., Sahktah, H., Dietrich, L. "Why So Blue?: Studying Pigment Secretion in *Pseudomonas aeruginosa*". *Poster*. Amgen Scholar Symposium, Columbia University, New York, NY (February 2013)

Koyama, L., Sahktah, H., Dietrich, L. "How Do Bacteria Breathe?" *Invited Speaker*. Amgen Scholars Conference, UCLA, Los Angeles, CA (July 2012)

Koyama, L., Yu, E. "Uncovering the Molecular Sociology of Base Excision Repair Complexes" *Poster*. Sandia National Laboratory Intern Symposium, Sandia National Laboratory, Livermore, CA (August 2011)

TEACHING EXPERIENCE

Barnard College Biology Department, Teacher's Assistant, New York, NY (September 2010-May 2011)

- Held office hours and study sessions for the introductory biology lecture course and helped to lead lab courses also for introductory biology.

Galileo Summer Quest, Assistant Instructor, Palo Alto, CA (June 2010-August 2010)

- Helped to teach summer courses covering basics in chemistry, human anatomy, and medicine for 6-8 graders.

VOLUNTEER WORK / OUTREACH

Dept of Developmental Biology Data Discussion, Event planner, Stanford School of Medicine, CA (September 2014-June 2015)

- Planned and hosted a weekly departmental seminar featuring data presentations and discussions from graduate students and postdocs in labs affiliated with developmental biology.

A Conversation on Personal Genomics, *Event planner*, Stanford School of Medicine, CA (June 2014)

- Planned and hosted a public seminar on personal genomics featuring experts in genetic counseling, bioethics, and personalized genetic analysis including Dr. Jill Hagenkord, chief medical officer of 23andMe.

Splash, *Volunteer*, Stanford, CA (November 2013)

- Designed and taught a two hour developmental biology course along with a fellow graduate student and postdoc. This class explored basic ideas and major questions in developmental biology and was supplemented with a chick embryo dissection.

Student Research Information Panel, *Invited Panelist*, Barnard College, New York, NY (April 2013)

- Participated in a yearly information panel hosted by Barnard's career development office to encourage undergraduate women to become involved in the scientific community by joining a research lab.

The School at Columbia University Science Expo, *Volunteer*, The School at Columbia University, New York, NY (March 2012)

- Helped to lead and design activities for a one day event in which labs from various scientific departments at Columbia University present their research to K-8 students.

Columbia University Girl's Science Day, *Volunteer*, Columbia University, New York, NY (November 2010)

- Mentored a group of middle school girls as they explored labs and participated in scientific activities led by Columbia University graduate students.