

Stephanie Gamez

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Education:

Graduate- Ph.D Candidate

University of California, San Diego, La Jolla, CA 92093

Department: Division of Cell and Developmental Biology

G.P.A: 4.0

Undergraduate

University of California, Riverside, Riverside, CA 92521

Major: Biology

Graduation: August 2015

G.P.A: 3.6

Chaffey College, Rancho Cucamonga, CA 91737

Major: Biology

Graduation: May 2013

G.P.A: 4.0

Employment:

White Lab, University of California, Riverside, Department of Entomology
Junior Specialist, responsible for performing high-throughput genomic DNA and RNA extractions, next generation library sequencing preparation, mosquito colony maintenance, mosquito bioassays, and CRISPR mutagenesis. From summer 2015 to July 2016.

White Lab, University of California, Riverside, Department of Entomology
Individual undergraduate research under Dr. Bradley White. Project title: The genetic basis of body color variation in the African malaria mosquito. From summer 2013 to summer 2015.

Math Success Center, Chaffey College, Rancho Cucamonga, CA 91737
Apprentice level 2 mathematics tutor, responsible for tutoring math subjects ranging from Elementary Algebra to Calculus. From fall 2011 to summer 2013.

Awards, Honors, and Related:

Dean's Distinguished Fellowship	University of California, Riverside, 2016
Bachelor's in Biology	University of California, Riverside, 2015
Magna Cum Laude	University of California, Riverside, 2015
CAMP Spring Research Stipend	University of California, Riverside, Spring 2015
Chancellor's Research Fellowship	University of California, Riverside, 2014-2015
Dean's Honors List	University of California, Riverside, 2013-2015
Stem Pathways Research Stipend	University of California, Riverside, 2013-2014
Neil Campbell Scholarship	Neil Campbell Foundation, 2013
Biology Certificate	Chaffey College, 2013
Assembly Certificate of Recognition	Chaffey College Honor's Program, 2013
Latino Scholarship Award	Cardenas Mar. and Latino Chaf. Faculty, 2011
Educational Reflection Scholarship	Student Activities Chaffey College, 2011
Exemplary Achievement Award	Chaffey College, 2010-2013
Dean's Honors List	Chaffey College, 2010-2013

Internship Experience:

Summer Bridge to Research

Summer 2013

Participated in summer research under the mentorship of Dr. Bradley White. This was not an individual project, but rather a graduate student's work. The project involved using high throughput quantitative genetics to identify hybrid incompatibilities in malaria mosquitoes.

Manuscripts published, submitted, and in progress:

Stephanie Gamez, Igor Antoshechkin, and Omar S. Akbari. A comprehensive developmental transcriptome analysis of *Ae. albopictus*, an invasive mosquito. (2019). Manuscript in preparation.

Cynthia Cheung, **Stephanie Gamez**, Rebeca Carballar-Lejarazú, Víctor Ferman, Valeri Vasquez, Gerard Terradas, Cynthia E. Schairer, John Marshall, Omar S. Akbari, and Cinnamon S. Bloss. Translating Gene Drive Science to Include Linguistically Diverse Populations in Community and Stakeholder Engagement. (2019). Manuscript in preparation.

Anna Buchman¹, **Stephanie Gamez**¹, Ming Li, Igor Antoshechkin, Shin-Hang Lee, Shin-Wei Wang, Chun-Hong Chen, Melissa J. Klein, Jean-Bernard Duchemin, James E. Crowe, Jr., Prasad N. Paradkar, and Omar S. Akbari. Broad Dengue Neutralization in Mosquitoes Expressing an Engineered Antibody. (2019). Submitted to Plos Pathogens. [¹ Equal contribution]

Ming Li, Ting Yang, Nikolai Kandul, Michelle Bui, **Stephanie Gamez**, Robyn Raban, Jared Bennett, Héctor M. Sánchez C., Gregory C. Lanzaro, Hanno Schmidt, Yoosook Lee, John M. Marshall, and Omar S. Akbari. Development of a Confinable Gene-Drive System in the Human Disease Vector, *Aedes aegypti*. (2019). Submitted to PNAS.

Anna Buchman¹, **Stephanie Gamez**¹, Ming Li, Igor Antoshechkin, Hsing-Han Li, Hsin-Wei Wang, Chun-Hong Chen, Melissa J. Klein, Jean-Bernard Duchemin, Prasad N. Paradkar, and Omar S. Akbari. Engineered resistance to Zika virus in transgenic *Aedes aegypti* expressing a polycistronic cluster of synthetic miRNAs. PNAS. (2019). [¹ Equal contribution]

Caroline Fouet, Colince Kamdem, **Stephanie Gamez**, Bradley White. Genomic insights into adaptive divergence and speciation among malaria vectors of the *Anopheles nili* group. Evolutionary Applications. (2017).

Colince Kamdem, Caroline Fouet, **Stephanie Gamez**, Bradley White. Pollutants and insecticides drive local adaptation in African malaria mosquitoes. Molecular Biology and Evolution. (2017).

Caroline Fouet, Colince Kamdem, **Stephanie Gamez**, Bradley White. Extensive genetic diversity among populations of the malaria mosquito *Anopheles moucheti* revealed by population genomics. Infection, Genetics and Evolution. 48 (2016): 27-33.

David Turissini, **Stephanie Gamez**, Bradley White. Genome-Wide Patterns of Polymorphism in an Inbred Line of the African Malaria Mosquito *Anopheles gambiae*. Genome Biology and Evolution 6.11 (2014): 3094-104.

Presentations:

Scientific Ethics (2019) presentation: CRISPy Ethics: The use of gene editing for the eradication of mosquitoes. *Won best presentation (Professor Mana Parast)

BSGE Graduate student seminar (2019) presentation: Broad Dengue Neutralization in Mosquitoes Expressing an Engineered Antibody

Graduate student seminar (2016) presentation: Controlling mosquito populations via genetic manipulation

Annual Undergraduate Research (2014) presentation: The Genetic Basis of Body Color Variation in the African Malaria Mosquito

Extracurricular Activities:

Entomology Outreach Coordinator, 2016-2017

In charge of coordinating entomological events in the Riverside community as well as Inland Empire communities. Take part in various STEM related events to teach young students about insects.