Jorge Arroyo-Esquivel

PERSONAL DATA

PERSONAL WEBSITE: https://jarroyoe.github.io/

E-MAIL: jarroyoe@ucdavis.edu

OFFICE: University of California, Davis. Mathematical Sciences Building 2229

One Shields Avenue, Davis, California. 95618, USA.

RESEARCH INTERESTS

 Analysis of conservation strategies in marine ecosystems using spatiotemporal modelling.

• Use of mathematical modelling to improve forecasting in ecology.

EDUCATION

SEPTEMBER 2018-CURRENT University of California, Davis

Doctor of Philosophy

Major: Applied Mathematics | Advisor: Alan Hastings

Expected graduation: June 2023

MARCH 2013-DECEMBER 2017 Universidad de Costa Rica

Bachelor of Science with Honorific Graduation

Major: Mathematics

WORK EXPERIENCE

SEPTEMBER 2018-CURRENT | University of California Davis

Teaching Assistant

AUGUST 2019-SEPTEMBER 2019 University of California Davis

Associate Instructor

JANUARY 2018-AUGUST 2018 | Western Union

Sr. Spec/Anlyst Rep & Analysis

APRIL 2014-DECEMBER 2017 | Universidad de Costa Rica

Research Assistant

PUBLICATIONS

- Sanchez F, **Arroyo-Esquivel J**, Vasquez P. Hospitalization in the transmission of dengue dynamics: The impact on public health policies. *Under review* (arXiv).
- Arroyo-Esquivel J, Sanchez F, Barboza L. Infection model for analyzing biological control of coffee rust using bacterial anti-fungal compounds. *Mathematical BioSciences*, 307, 13-24. (doi) (arXiv)

CONFERENCE TALKS

2018 21st International Symposium on Mathematical Methods Applied to Sciences Universidad de Costa Rica, San Jose, Costa Rica.

2017 19th Fall School of Mathematical Biology

Universidad de Colima, Colima, Mexico.

PROFESSIONAL SERVICE

Mentoring in: Project SHORT.

Equity in Science, Technology, Engineering, Math, and Entrepreneurship.

Association for Women in Science, Sacramento Chapter.

Reviewer in: International Journal of Biometeorology.

LANGUAGES

SPANISH: Native ENGLISH: Fluent

JAPANESE: Basic Knowledge FRENCH: Basic Knowledge

COMPUTER SKILLS

PROGRAMMING LANGUAGES: R, Matlab, SQL, Git, C# LaTeX
BUSINESS INTELLIGENCE: Microsoft Office, Alteryx, Tableau