

## Jorge Arroyo-Esquivel

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CONTACT INFORMATION	University of California Davis Department of Mathematics jarroyoe@ucdavis.edu One Shields Avenue Davis, California 95616 USA			http://www.math.ucdavis.edu/~jarroyoe
RESEARCH INTERESTS	Theoretical ecology and population dynamics, especially in its applications to conservation biology and agriculture.			
EDUCATION	<b>University of California Davis</b> Ph.D. Student, Applied Mathematics (expected 2023) Advisor: Alan Hastings  <b>Universidad de Costa Rica</b> B.S. in Mathematics, April 2018 <ul style="list-style-type: none"><li>Honoric graduation</li></ul>			
PUBLICATIONS	F. Sanchez, J. Arroyo-Esquivel. <i>Hospitalization in the transmission of dengue dynamics: The impact on public health policies</i> , in preparation.  J. Arroyo-Esquivel, F. Sanchez, and L.A. Barboza. <i>Infection model for analyzing biological control of coffee rust using bacterial anti-fungal compounds</i> , Math. Biosci. <b>307</b> (2019), 13–24.			
CONFERENCE TALKS	<i>Infection model for analyzing biological control of coffee rust using bacterial anti-fungal compounds</i> , 21 <sup>st</sup> International Symposium on Mathematical Methods Applied to Sciences, Universidad de Costa Rica. (February 2018)  <i>Infection model for analyzing biological control of coffee rust using bacterial anti-fungal compounds</i> , 19 <sup>th</sup> Fall School of Mathematical Biology, Universidad de Colima, Mexico. (October 2017)			
OTHER TALKS	<i>Applications of bifurcation theory to conservation of marine ecosystems</i> , Mathematics Department Colloquium, Universidad de Costa Rica (October 2016)			
RESEARCH EXPERIENCE	2019– 2014–2018	Graduate Student Researcher Research Assistant, Pure and Applied Mathematics Center		
TEACHING EXPERIENCE	Winter 2019	Dynamical Systems Applied to Biology (University of California Davis)		
	Fall 2018	Teaching Assistant, Calculus Applied to Biology (University of California Davis)		
		2017	Volunteer tutor for socially excluded groups (Fundacion Rahab)	
	Summer 2015	Biology Olympiad Trainer (Saint Michael High School)		
HONORS AND AWARDS	2018	Honoric Graduation Universidad de Costa Rica		

PROFESSIONAL  
SERVICE

Reviewer in the following journals:

- *International Journal of Biometeorology*

RELEVANT  
SKILLS

Languages:

English, Spanish

Computer Languages:

R, MATLAB, Java