Priscila A. Guzman 132 Ackert Hall | Kansas State University | (785)-532-0404 | pguzman@ksu.edu

EDUCATION				
Doctor of Philosophy in Biology	5 th Year GPA: 4.0 Graduation expected May 2022			
Kansas State University, Manhattan, Kansas				
Bachelor of Science in Biology	2014			
Associate of Science in Chemistry	2015			
Middle Georgia State University, Macon, Georgia.				
TEACHING EXPERIENCE				
Teaching Assistant	2016 – Present			
BIOL 455 – General Microbiology Laboratory Tech	niques			
BIOL 198 – Principles of Biology				
BIOL 101 – Concepts of Biology				
PROFESSIONAL EMPLOYMENT HISTORY				
Graduate Research Assistant Microbiology	2016 – Present			
Kansas State University, Manhattan, Kansas				
Principal Investigator: Dr. Thomas Platt				
I study how plasmid dynamics affect bacterial social interactions focusing on interactions between virule cooperators and avirulent cheater strains.				
Research Technician Genetics	2014			
Middle Georgia State University, Macon, Georgia.				
Principal Investigator: Dr. Pushpa Yadav				
I studied the effects of induction of polyploidy in <i>Ste</i>	<i>via rebaudiana</i> plants.			
Research Technician Limnology	2011 – 2012			
University of Puerto Rico, Río Piedras, Puerto Rico.				
Principal Investigator: Dr. Jorge Ortiz				
I studied the effects of urban runoff on an urban creek in San Juan, PR, and how the polluted waters we				
affecting the community.				
Research Technician Ecology	2009 - 2010			
Juan Ponce de León High School, Florida, Puerto Ri				
Principal Investigator: Mr. Elliot López				
I studied arthropod diversity and distribution within t	he caves Balcón & Viento in Florida. Puerto Rico.			
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PEER REVIEWED PUBLICATIONS

van der Vlies, A.J., Barua, N., **Nieves-Otero, P.A.**, Platt, T.G. and Hansen, R.R. (2018): On Demand Release and Retrieval of Bacteria from Microwell Arrays Using Photodegradable Hydrogel Membranes. *ACS Applied Bio Materials*. 2 (1): 266-276.

Fattahi, N., **Nieves-Otero, P.A.**, Masigol, M., van der Vlies, A.J., Jensen, R.S., Hansen, R.R., Platt, T.G. (2020): Photodegradable Hydrogels for Rapid Screening, Isolation, and Genetic Characterization of Bacteria with Rare Phenotypes. *Biomacromolecules*. 21 (8): 3140-3151.

Barton, I.S., Eagan, J.L., Reynolds, I., **Nieves-Otero, P.A.** Platt, T.G., Fuqua, C. (2021): Co-Dependent and Interdigitated: Dual Quorum Sensing Systems Regulate Conjugative Transfer of the Ti Plasmid and the At Megaplasmid in Agrobacterium tumefaciens 15955. *Frontiers in Microbiology*. 11:605896.

HONORS AND AWARDS

•	STEM Advocacy Institute (SAi) Resident		2020
٠	Awarded the ABRCMS Conference Scholarship		2020
٠	Awarded the STEM Advocacy Institute (SAi) Fellowship		2020
٠	Selected as one of SESYNC's Graduate Pursuits Participants		2020
٠	Conference Scholarship to attend 2020 SACNAS		2020
٠	Selected to exhibit one of my research microscopy images at the Kemper Museum of Co	ontempor	ary
	art in Kansas City as part of the Science To Art Competition Hosted by BioNexus KC		2020
٠	Awarded a Science Communication Certificate from Northwestern University		2020
٠	Selected as one of KSU Graduate Student Senators for the Student Governing Association	on	2020
٠	Competitively selected to be part of ComSciCon-SciWri 2020 cohort		2020
٠	Awarded the ESA SEEDS Interdisciplinary Power of Data Research Travel Award		2020
٠	Awarded KSU's Graduate Student Council Professional Development Certificate		2020
٠	Competitively selected to be 1 of 25 students in the US to participate in SESYNC's Dive	ersity, Ec	quity
	& Inclusion in Socio-Environmental Synthesis Workshop		2020
٠	Awarded the Yale Ciencia Academy Fellowship		2019
٠	Awarded "Outstanding Graduate Oral Presentation" in Microbiology at 2019 SACNAS		2019
٠	Recipient of the 'Family Pin' from the Diversity and Multicultural Student Association		2019
٠	Student liaison in KSU's President's Commission on Multicultural Affairs		2019
٠	Awarded a travel grant from KSU's graduate school		2019
٠	Awarded a travel grant from KSU's Biology Graduate Student Association (BGSA)		2019
٠	Awarded the BioKansas Professional Development Scholarship		2019
٠	Michael Scott Watkins Award for Outstanding Graduate Teaching		2019
٠	US Student representative for NASA StarHab Ideation Workshop for Centennial Challen	nges	2018
٠	Awarded a Science Communication Fellowship from the Sunset Zoo		2018
٠	Awarded the NSF Graduate Research Fellowship		2018
٠	Awarded Honorable Mention on Ford Foundation Predoctoral Fellowship		2018
٠	Competitively selected to be one of two students to represent KSU on the Catalyzing Ad	lvocacy i	n
	Science and Engineering (CASE) workshop in Washington DC		2018
٠	Best Presentation Style - Graduate Students on Parade (KSU)	2016 – P	Present

MENTORSHIP

٠	Isam Madi, undergraduate student at KSU, Biology.	2016 - 2018
٠	Courtney Sharp, undergraduate student at KSU, Biology. K-INBRE Scholar.	2016 - 2019
٠	Spencer Parish, undergraduate student at Yale University. NSF-REU Scholar.	2016 - 2017
٠	Anabelle Dillon, undergraduate student at KSU, Biology. A&S Scholar.	2017 - 2020
٠	Aditi Arun, undergraduate student at KSU, Biology. A&S Scholar.	2017 - 2020
٠	Veronica Mateo, undergraduate student at KSU, Biology. KS-LSAMP Scholar.	2018 - Present
٠	Natalie Melendez, undergraduate student at KSU, Biology. KS-LSAMP Scholar	2018 - Present
٠	Emireth Monarrez, undergraduate student at KSU, Biology. KS-LSAMP Scholar.	2018 - Present
٠	Tyler Hanson, undergraduate at KSU, Biology. K-INBRE Scholar.	2018 - Present
٠	Reilly Jensen, undergraduate student at KSU, Biology. K-INBRE Scholar.	2018 - Present
٠	Chris Carter, undergraduate student at KSU, Biology.	2018 - Present
٠	Jackie Hernandez, high school student at MHS. Verde Clovers President.	2019 - Present
٠	Lauren Lauffer, high school student at MHS. Verde Clovers Vice-President.	2019 - Present
٠	Liz Melendez, high school student at MHS. Verde Clovers Secretary.	2019 - Present

PUBLIC SERVICE AND OUTREACH

•	KSU Diversity Programming Committee Graduate Student Representative	2020 - Present
•	KSU Educational Opportunity Fund Committee Graduate Student Representative	2020-Present
•	Kansas Beats the Virus Conversation Facilitator & Interpreter	2020
•	SelfCare@K-State Organizer	2020
•	Skype a scientist volunteer scientist	2020
•	CienciaPR - Científicos al Servicio SciComm & Teaching Volunteer	2020
•	National Academies of Sciences, Engineering & Medicine New Voices COVID-19 Vol	unteer 2020
•	Volunteer for the National Science Policy Network "COVID-19 Ask A Scientist Tool"	2020
•	Graduate School Student Senator for KSU's Student Governing Association	2020 - Present
•	Chair of the Biology Graduate Student Association (BGSA) Workshop committee	2020 - Present
•	Student liaison in KSU's President's Commission on Multicultural Affairs	2019 - Present
•	Graduate student mentor for KSU's microbiology club	2019 - Present
•	"Crafting a competitive NSF-GRFP application" workshop presenter	2019
•	Diversity Advocate for KSU Graduate School	2019 - Present
•	Member of KSU's Office for the Advancement of Women in Science and Engineering ((KAWSE)
	Internal Advisory Board	2019 - Present
•	Co-chair of KSU's graduate school Professional Development Committee	2019 - Present
•	Co-founder and Vice-President of KSU's SACNAS Chapter	2019 - Present
•	Organizer of the Summer STEM Camp for the 4H Verde Clovers Latino Club	2019
•	Facilitator for KAWSE's Girls Researching Our World (GROW) Summer Workshop	2019
•	Delegate for "Más mujeres educadas, menos mujeres maltratadas" event in Florida, PR	2019
•	Team member of a video made for lawmakers showcasing research in KSU	2019 - Present
•	Microbiology mentor for "Girls in STEM" camp	2019 - Present
•	STEM mentor for the Kickapoo & Iowa Tribes in Kansas	2019 - Present
•	Writer and editor for bilingual (English & Spanish) scientific blog	2019 - Present
•	Letters with a Pre-Scientist volunteer	2018 - Present
•	Collaborator for NASA's Centennial Challenges Program	2018 - Present
•	Science Communication Fellow at Sunset Zoo	2018 - Present
•	Travel Grants and Awards Chair of Biology Graduate Student Association (BGSA)	2018 - 2019
•	Face of Kansas State Research	2018 - 2019
•	Writer and editor for 'Science Snapshots'	2017 - Present
•	Science Guest Speaker at Manhattan High School	2017 - Present
•	Kansas State Science Communication Initiative (KSCI) volunteer	2017-Present
•	STEM Mentor and counselor for Manhattan, KS 4H Latino Club "Verde Clovers."	2017 - Present
•	Biology, Chemistry, Spanish & Math tutor for Latino Youth	2016 - Present
•	Mentor and teaching volunteer for KAWSE	2016 - Present
•	Vice-president and Secretary of the Natural Sciences Network (NSN)	2012 - 2014
•	Math, Spanish & Chemistry tutor at Middle Georgia State University	2012 - 2014

MEMBERSHIPS/AFFILIATIONS

- Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
- American Society for Microbiology (ASM)
- American Association for the Advancement of Science (AAAS)009
- Missori ASM Branch
- CienciaPR
- National Science Policy Network (NSPN)
- Ecological Society of America (ESA)
- ComSciCom

INVITED PRESENTATIONS

- Oral (11/2020): *Cómo las dinámicas de plásmidos ayudan al control social de bacterias*. Centro de Investigación Ambiental de la Juán Ponce de León (CIAM JPL) Annual Symposium.
- Poster (10 / 2020): *Plasmid conjugation from bacterial cooperators into cheaters as a potential policing mechanism.* 2020 SACNAS The National Diversity in STEM Conference.
- Poster (06 / 2020): *High-throughput screening of microbial interactions using a photodegradable hydrogel.* 2020 Microbe.
- Oral (03 / 2020): *High-throughput screening of microbial interactions using a photodegradable hydrogel.* ASM Missouri Branch Regional Meeting
- Oral (10 / 2019): *High-throughput screening of microbial interactions using a photodegradable hydrogel.* 2019 SACNAS - The National Diversity in STEM Conference. <u>Outstanding Graduate Oral</u> <u>Presentation Award.</u>
- Poster (10 / 2019): *High-throughput screening of microbial interactions using a photodegradable hydrogel.* 40th Annual Crown Gall conference
- Oral (10 / 2019): *High-throughput screening of microbial interactions using a photodegradable hydrogel*. Graduate Students on Parade, Kansas State University. <u>Best Presentation Style Award</u>.
- Oral (03 / 2019): *Cheaters and Cooperators*. 2019 SciComm Conference
- Poster (10 / 2018): *High-throughput screening of microbe-microbe interactions utilizing microwell arrays*. Microbiomes From Different Habitats: Soil, Water & Gut. NE-EPSCOR.
- Oral (07 / 2018): *Microwell array platform for high-throughput screening of bacterial interactions*. Ecological Genomics Research Forum, Kansas State University.
- Oral (10 / 2017): *From cheaters to cooperators*. Graduate Students on Parade, Kansas State University. <u>Best Presentation Style Award.</u>
- Oral (10 / 2016): *Can conjugation stabilize cooperative traits?* Graduate Students on Parade, Kansas State University. <u>Best Presentation Style Award.</u>