

# PRISCILLA A. SAN JUAN

900 Exposition Blvd. Los Angeles, CA, USA 90007 • [psanjuan@nhm.org](mailto:psanjuan@nhm.org) • (562) 712-5779

## EDUCATION

---

2016-2022	Stanford University, Stanford, California, USA PhD Biology (Ecology/Evolution)
2014-2016	University of California-Irvine, Irvine, California, USA Bachelor of Arts Environmental Science; Minor Global Sustainability
2011-2014	Fullerton College, Fullerton, California, USA Associate of Arts Biology

## PUBLICATIONS

---

Lagerstrom, K. M., Vance, S., **San Juan, P. A.**, Gupta, T. D., and Hadly, E. A. Facing mass extinction with microbial partners: Utilizing animal gut microbiomes to mitigate biodiversity loss in the Anthropocene. *In press*. Evolutionary Ecology Research.

Donald, M. L., **San Juan, P. A.**, and Dhami, M. K. 2023. Microbial signatures of vertebrate visitation in floral nectar: a case study with two endemic Aotearoa New Zealand plant species. *New Zealand Journal of Zoology*.

<https://doi.org/10.1080/03014223.2023.2245763>

Decker, L. E., **San Juan, P. A.**, Warren, M. L., Duckworth, C. E., Gao, C., and Fukami, T. 2022. Higher Variability in fungi compared to bacteria in the foraging honey bee gut. *Microbial Ecology*.

<https://doi.org/10.1007/s00248-021-01922-5>

**San Juan, P. A.**, Castro, I., and Dhami, M. K. 2021. Captivity reduces diversity and shifts composition of the Brown Kiwi microbiome. *Animal Microbiome* 3(48):1-8.

<https://doi.org/10.1186/s42523-021-00109-0>

**San Juan, P. A.**, Hendershot, J. N., Daily, G. C., and Fukami, T. 2020. Land-use change has host-specific influences on avian gut microbiomes. *The ISME Journal* 14, 318-321.

<https://doi.org/10.1038/s41396-019-0535-4>

Smith, J. R., Letten, A. D., Ke, P. J., Anderson, C. B., Hendershot, J. N., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. M. L., Routh, D., **San Juan, P.**, Mooney, H. A., Mordecai, E. A., Crowther, T. W., and Daily, G. C. 2018. A global test of ecoregions. *Nature Ecology and Evolution* 2, 1889-1896. <https://doi.org/10.1038/s41559-018-0709-x>

## RESEARCH EXPERIENCE

---

2023-Present	Natural History Museum of Los Angeles County, Los Angeles, USA, Mammalogy Postdoctoral fellow, Advisor: Kayce Bell Host-parasite evolution in mammals
2016-2022	Stanford University, USA, Department of Biology PhD student, Advisor: Tadashi Fukami Dissertation title: Processes that shape the avian gut microbiome

- 2020-21 **Manaaki Whenua Landcare Research, NZ, Biocontrol and Molecular Ecology**  
 Visiting PhD student, Advisor: Manpreet K. Dhani  
 (1) Temporal development of the Brown Kiwi gut microbiome  
 (2) The effects of floral phytochemical, DHA, on bumblebee gut microbiomes  
 (3) Possum gut microbiome and its relationship to 1080 administration
- 2020 **Rainbow Springs Nature Park, NZ, National Kiwi Hatchery**  
 Visiting PhD student, Supervisors: Emma Bean and Helen McCormick  
 Temporal development of the Brown Kiwi gut microbiome
- 2019 **Manaaki Whenua Landcare Research, NZ, Biocontrol and Molecular Ecology**  
 Visiting PhD student, Advisor: Manpreet K. Dhani  
 How captivity shapes the Brown Kiwi (*Apteryx mantelli*) gut microbiome
- 2015-2016 **University of California, Irvine, USA, Department of Ecology and Evolution**  
 Undergraduate researcher, Advisor: Donovan German  
 Digestive physiology of invasive fish species: *Pterygoplichthys disjunctivus* and *Oreochromis niloticus* to determine nutritional competition
- 2015 **King's College London, UK, Analytical and Environmental Science Division**  
 Undergraduate researcher, Advisor: Stephen Sturzenbaum  
 The auxiliary effects of perchlorate exposure in nematode model *Caenorhabditis elegans*
- 2014-2015 **University of California, Irvine, USA, Department of Ecology and Evolution**  
 Undergraduate researcher, Advisor: Luis Mota-Bravo  
 Antibiotic resistance genes in environmental bacterial isolates
- 2013 **Jet Propulsion Laboratory, USA, Radar Science and Engineering**  
 Researcher, Science Advisor: Cathleen Jones  
 Levee health assessment utilizing NASA's Uninhabited aerial vehicle synthetic aperture radar (UAVSAR) data coupled with geoprocessing tool ArcGIS

## SKILLS

---

Field	Laboratory/technical	Programming	Languages
Animal handling (e.g. birds, fish), sample collection (e.g. guano, soil, nectar)	DNA extraction, metabarcoding, PCR amplification, library preparation, bacteria and yeast culture	R, bash, qGIS, basic high-performance computing	English (fluent), Tagalog (conversational)

## PRESENTATIONS AT PROFESSIONAL MEETINGS

---

San Juan, P. A., Bean, E., McCormick, H., and Dhani, M. K. Tracking kiwi development through a microbial lens: Temporal trends of the captive Brown Kiwi (*Apteryx mantelli*) gut microbiome. Oral Presentation at: Ecological Society of America (ESA) Annual Meeting; 2022 August; Montreal, Canada.

San Juan, P. A., Castro, I., and Dhani, M. K. Can kiwi trust their gut? Captive rearing alters the Brown Kiwi (*Apteryx mantelli*) microbiome. Oral Presentation at: North American Ornithological Conference; 2021 August; Virtual.

San Juan, P. A., Castro, I., and Dhami, M. K. Can kiwi trust their gut? Captive rearing alters the Brown Kiwi (*Apteryx mantelli*) microbiome. Poster Presentation at: Ecological Society of America (ESA) Annual Meeting; 2021 August; Virtual.

San Juan, P. A., Castro, I., and Dhami, M. K. Can kiwi trust their gut? Captive rearing alters the Brown Kiwi (*Apteryx mantelli*) microbiome. Oral Presentation at: Birds New Zealand Society Conference; 2021 June; Thames, New Zealand.

San Juan, P. A., Castro, I., and Dhami, M. K. Can kiwi trust their gut? Captive rearing alters the Brown Kiwi (*Apteryx mantelli*) microbiome. Oral Presentation at: New Zealand Microbiological Society Online Conference; 2020 November; Virtual.

San Juan, P. A. eDNA: a molecular tool for biodiversity monitoring, Oral Presentation at: Workshop for Ecosystem and Biodiversity Monitoring and Assessment; 2018 December; Beijing, China.

San Juan, P. A., Hendershot, J. N., Daily, G. C., and Fukami, T. Response of bird gut microbiomes to insect diet composition across land use, Oral Presentation at: Conference of Ford Fellows; 2018 October; Irvine, CA, U.S.A.

San Juan, P. A., Hendershot, J. N., Daily, G. C., and Fukami, T. Response of bird gut microbiomes to insect diet composition across land use, Oral Presentation at: Ecological Society of America (ESA) Annual Meeting; 2018 August; New Orleans, LA, U.S.A.

San Juan, P. A., Hendershot, J. N., Daily, G. C., and Fukami, T. Response of avian gut microbiome composition to land use change in a countryside landscape in Costa Rica, Poster Presentation at: Society for Integrative and Comparative Biology (SICB) Annual Meeting; 2018 January; San Francisco, CA, U.S.A.

San Juan, P. A., Hendershot, J. N., Daily, G. C., and Fukami, T. Response of avian gut microbiome composition to land use change in a countryside landscape in Costa Rica, Poster Presentation at: Third Annual Microbiome Summit; 2017 October; Stanford, CA, U.S.A.

San Juan, P. A., Hendershot, J. N., Daily, G. C., and Fukami, T. Response of avian gut microbiome composition to land use change in a countryside landscape in Costa Rica, Oral Presentation at: Ecological Society of America (ESA) Annual Meeting; 2017 August; Portland, OR, U.S.A.

San Juan, P. A., Tatarenkov, A., and Mota-Bravo, L. Antibiotic resistant genes in integrons from environmental Enterobacteriaceae. Poster presented at: Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS) Conference; 2015 October; Washington D.C., U.S.A.

San Juan, P. A., Al-Saleh, S., and Sturzenbaum, S. R. The effects of perchlorate exposure on growth and lipid metabolism in the model nematode *Caenorhabditis elegans*. Poster presented at: Sigma Xi Annual Meeting & Student Research Conference; 2015 October; Kansas City, MO, U.S.A.

San Juan, P. A., Tatarenkov, A., and Mota-Bravo, L. Integrons in Enterobacteriaceae from surface waters. Poster presented at: American Association for the Advancement of Science (AAAS) Conference; 2015 February; San Jose, CA, U.S.A.

San Juan, P. A., Tatarenkov, A., and Mota-Bravo, L. Characterization of Integrons present in environmental Enterobacteriaceae isolates. Poster presented at: Annual Biomedical Research Conference for Minority Students (ABRCMS); 2014 November; San Antonio, TX, U.S.A.

## FELLOWSHIPS AND GRANTS

---

2020-2022	Stanford University DARE Fellowship, <i>Accepted</i>	Stipend/tuition
2020	American Ornithological Society, Carnes grant	\$ 2000 USD
2019	Birds New Zealand research grant	\$ 4190 NZD
2018	Stanford Office of Graduate Education travel grant	\$ 1000 USD
2018-2021	Ford Foundation Predoctoral Fellowship, <i>Accepted</i>	Stipend/tuition
2018	Organization for Tropical Studies Thesis Fellowship	\$ 4050 USD
2017	Stanford Office of Graduate Education travel grant	\$ 1000 USD
2017	Stanford Ecology/Evolution travel grant	\$ 600 USD
2017	Ford Foundation Fellowship, <i>Honorable Mention</i>	
2017	National Science Foundation, Graduate Research Fellowship Program, <i>Honorable Mention</i>	
2016	Ford Foundation Fellowship, <i>Honorable Mention</i>	
2016	Undergraduate Research Opportunities Program	\$ 300 USD
2015-2016	NIH, Maximizing Access to Research Careers	Stipend/tuition
2015	NIH, Minority Health and Health Disparities International Research Training	Summer stipend
2014-2015	NIH, Minority Biomedical Research Support Program	Stipend/tuition
2014	NIH, Bridges to Baccalaureate Program for Undergraduates	Summer stipend

## HONORS AND AWARDS

---

2015	SACNAS poster presenter award in Ecology and Evolutionary Biology
2015	Sigma Xi: The Scientific Research Society inducted
2015	Sigma Xi poster presenter award in Environmental Science
2014	ABRCMS poster presenter award in Molecular and Computational Biology
2015-2016	Dean's Honor List, University of California, Irvine
2014-2015	Chancellor's Excellence Scholar, University of California, Irvine
2014	William Mohr Patton/Oscher Scholarship, Fullerton College
2013	Jack and Mary Chapman Scholarship, Fullerton College
2013	Thelma Sevilla Memorial Scholarship, Fullerton College
2012-2014	Dean's Honor List, Fullerton College
2011	President's Honor List, Fullerton College

## TEACHING AND MENTORSHIP

---

2021	Research mentor, Manaaki Whenua Landcare Research, Lincoln, New Zealand
2020	Research mentor, Stanford Biology Summer Undergrad Research Program
2019	Teaching assistant, Ecology (Stanford University, Bio 81)
2020	Research mentor, Stanford Summer Research Program (SSRP)
2019	Teaching assistant, Introduction to Research in Ecology and Evolutionary Biology (Stanford University, Bio 47)

## OUTREACH AND SERVICE

---

- 2021-present Ecological Society of America Microbial Ecology Section  
*Diversity, Equity, and Inclusion (DEI) representative*  
Ensure diversity is being considered in section decisions  
Developing measures to increase diverse representation  
Stanford Hermanas in STEM
- 2019-2020 *President*  
Manage the organization, delegate tasks for event coordination
- 2018-2019 *Financial officer*  
Manage the organization's funds for outreach, faculty seminars, cultural, and social events
- 2017-2018 *Outreach coordinator*  
Organized outreach events and initiated collaborations with other Stanford organizations  
Stanford HyPE
- 2019 *Planning committee*  
Plan annual event for high school students from underserved communities to learn about research, PhD programs, and alternative careers  
Department of Biology
- 2021 *Surf n' Turf organizer*  
Organized annual symposium within the Department of Biology, coordinated and facilitated outreach panel
- 2020-2021 *Social Committee member*  
Organize events for students in the department
- 2019-2020 *Home program representative*  
Liaison between Biology (Ecology and Evolution) students and the broader Biosciences community
- 2019-2020 *Department student representative*  
Liaison between students and the department  
Plan and organize department events
- 2019-2020; 2018-2019; 2017-2018 *First year mentor*  
Mentor a first year PhD student to ensure a smooth transition into graduate school
- 2017-2018 *Seminar organizer*  
Planned weekly Ecology and Evolution department lunch seminars
- 2017-2018 *Department seminar speaker committee member*  
Organized seminar and dinner for student nominated, invited speaker
- 2017-2018 *Department recruitment weekend committee member*  
Organized events for interviewees for the Biology PhD program  
Science Penpals
- 2017-2018 *Student mentor*  
Mentor a junior high student from an underserved community through letters, where we discuss ourselves, higher education, and scientific research
- 2016-2017 ADVANCE Summer Institute  
*Student mentor*  
Mentor an incoming PhD student from a diverse background to ensure a smooth transition into graduate school

## REFERENCES

---

**Tadashi Fukami,**

*Professor*

Stanford University

Stanford, CA, USA

[fukamit@stanford.edu](mailto:fukamit@stanford.edu)

**Gretchen C. Daily,**

*Professor*

Stanford University

Stanford, CA, USA

[gdaily@stanford.edu](mailto:gdaily@stanford.edu)

**Kayce C. Bell,**

*Assistant Curator*

NHMLAC

Los Angeles, CA, USA

[kbell@nhm.org](mailto:kbell@nhm.org)

**Manpreet K. Dhami,**

*Senior Researcher*

Manaaki Whenua Landcare

Research

Lincoln, New Zealand

[dhamim@landcareresearch.co.nz](mailto:dhamim@landcareresearch.co.nz)