

PRISCILLA A. SAN JUAN, PhD

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EDUCATION

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

PUBLICATIONS

Rowe, S.P., Stott, M.B., Brett, B., **San Juan, P.A.**, and Dhami, M.K. Natal soil consumption shifts gut microbiome in captive kiwi (*Apteryx rowi*). *Animal Microbiome*.

<https://doi.org/10.1186/s42523-025-00445-5>

San Juan, P.A., Durden, L.A., Allen, J.M., Phillips, A.J., and Bell, K.C. Genomics and morphology resolve chipmunk sucking louse systematics (genus *Hoplopleura*). *Journal of Parasitology*.

<https://doi.org/10.1645/24-135>

San Juan, P.A., Palma, L., and Bell, K.C. Pinworm microbiomes are distinct from their chipmunk host gut microbiota. *Journal of Mammalogy*. <https://doi.org/10.1093/jmammal/gya156>

Lagerstrom, K.M., Vance, S., **San Juan, P.A.**, Gupta, T. D., and Hadly, E. A. 2023. Facing mass extinction with microbial partners: Utilizing animal gut microbiomes to mitigate biodiversity loss in the Anthropocene. *Evolutionary Ecology Research*, 29-43.

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 POSITIONS

2023-Present	Postdoctoral fellow , Natural History Museum of Los Angeles County <u>Department:</u> Research & Collections, Department of Mammalogy <u>Advisor:</u> Kayce C. Bell <u>Collaborators:</u> Julie M. Allen (Virginia Tech), Lance A. Durden (Georgia Southern University), Jessica E. Light (Texas A&M), Jana Martin Rihová (University of Southern Bohemia), Ed Stanley (Florida Museum of Natural History), Anna J. Phillips (Smithsonian Institute)
2016-2022	PhD student , Stanford University <u>Department:</u> Biology, Ecology/Evolution track <u>Advisor:</u> Tadashi Fukami <u>Collaborators:</u> Gretchen C. Daily (Stanford University), John Nicholas Hendershot (The Nature Conservancy) <u>Dissertation title:</u> Processes that shape the avian gut microbiome
2019-2021	Visiting PhD student , Manaaki Whenua Landcare Research, New Zealand <u>Department:</u> Biocontrol and Molecular Ecology <u>Advisor:</u> Manpreet K. Dhami <u>Collaborators:</u> Isabel Castro (Massey University), Helen McCormick (National Kiwi Hatchery), Emma Bean (National Kiwi Hatchery), Stephen Rowe (University of Canterbury), Patrick Garvey (Manaaki Whenua Landcare Research)
2015-2016	Undergraduate researcher , University of California, Irvine <u>Department:</u> Ecology and Evolution <u>Advisor:</u> Donovan German
2015	Undergraduate researcher , King's College London, United Kingdom <u>Department:</u> Analytical and Environmental Science Division <u>Advisor:</u> Stephen Sturzenbaum <u>Mentor:</u> Sana A. Alsaleh
2014-2015	Undergraduate researcher , University of California, Irvine <u>Department:</u> Ecology and Evolution <u>Advisor:</u> Luis Mota-Bravo
2013	Researcher , Jet Propulsion Laboratory <u>Department:</u> Radar Science and Engineering <u>Science Advisor:</u> Cathleen Jones

TALKS AT PROFESSIONAL MEETINGS

San Juan, P. A., Durden, L.A., Allen, J. M., Phillips, A. J., and Bell, K.C. Using phylogenomics to accurately characterize host-parasite associations between chipmunks and lice. Oral Presentation at: Ecological Society of America (ESA) Annual Meeting; 2024 August; Long Beach, CA U.S.A.

San Juan, P. A., Durden, L.A., Allen, J. M., Phillips, A. J., and Bell, K.C. Using phylogenomics to accurately characterize host-parasite associations between chipmunks and lice. Oral Presentation at: Third Joint Congress on Evolutionary Biology Meeting; 2024 July; Montreal, Canada.

San Juan, P. A., Durden, L.A., Allen, J. M., Phillips, A. J., and Bell, K.C. Using phylogenomics to accurately characterize host-parasite associations between chipmunks and lice. Oral Presentation at: Southern California Academy of Sciences Meeting; 2024 June; Orange, CA U.S.A.

San Juan, P. A., Bean, E., McCormick, H., and Dhami, 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 Dhami, 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., 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.

INVITED TALKS

San Juan, P.A. Microbial and Parasitic Symbioses: Unveiling the complex relationships between mammals and the life they harbor. Talk at University of Southern California, Center for Ecological and Evolutionary Dynamics Seminar; 2024 September; Los Angeles, CA.

San Juan, P.A. Friend or Foe: An exploration of mammals, their parasites, and the microbes they harbor. Talk at University of Canterbury, School of Biological Sciences Seminar; 2024 June; Christchurch, New Zealand.

San Juan, P.A. Friend or Foe: An exploration of mammals, their parasites, and the microbes they harbor. Talk at Manaaki Whenua Landcare Research, Molecular Ecology Group meeting; 2024 May; Lincoln, New Zealand.

San Juan, P.A. Friend or foe: seeking to understand species relationships between hosts and the life they harbor. Talk at California State University, Dominguez Hills, Biology Department Seminar; 2024 March; Carson, CA.

San Juan, P.A. Processes that shape the avian gut microbiome. Talk at Natural History Museum of Los Angeles, Lunch & Learn Seminar Series; 2023 September; Los Angeles, CA.

San Juan, P.A. Captivity reduces diversity and shifts composition of the Brown Kiwi microbiome. Talk at Stanford Microbial Molecular Biology research talk; 2021 November; Stanford, CA.

San Juan, P.A. eDNA: a molecular tool for biodiversity monitoring. Talk at Workshop for Ecosystem and Biodiversity Monitoring and Assessment, Beijing, China.

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 Predoctoral Fellowship, <i>Honorable Mention</i>	
2017	National Science Foundation, Graduate Research Fellowship Program, <i>Honorable Mention</i>	
2016	Ford Foundation Predoctoral Fellowship, <i>Honorable Mention</i>	
2016	UC Irvine, Undergraduate Research Opportunities Program	\$ 300 USD
2015-2016	National Institutes of Health, Maximizing Access to Research Careers (MARC)	Stipend/tuition
2015	National Institutes of Health, Minority Health and Health Disparities International Research Training (MHIRT)	Stipend
2014-2015	National Institutes of Health, Minority Biomedical Research Support Program (MBRS)	Stipend/tuition
2014	National Institutes of Health, Bridges to Baccalaureate Program for Undergraduates	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

2024	Guest lecturer, Rutgers University, Evolution Graduate Student course
2023-present	Research mentor, Natural History Museum of Los Angeles County, Los Angeles, CA
2021	Research mentor, Manaaki Whenua Landcare Research, Lincoln, New Zealand
2020	Research mentor, Stanford Biology Summer Undergraduate Research Program
2019	Research mentor, Stanford Summer Research Program (SSRP)
2019	Teaching assistant, Stanford University, Ecology
2019	Teaching assistant, Stanford University, Introduction to Research in Ecology and Evolutionary Biology
2017-2020	Student mentor, Stanford Biology's First Year Mentorship Program
2017-2018	Student mentor, Stanford University Science Penpals
2016-2017	Student mentor, Stanford ADVANCE Summer Institute

OUTREACH AND SERVICE

Natural History Museum of Los Angeles County

- 2023-present *Science communication with the public*
- Engage with museum guests at events (e.g. Earth Day, Bug Fest, First Fridays, Boney Island, etc.) discussing research in the department
 - Give tours and educate guests on the mammal collection

Ecological Society of America Microbial Ecology Section

- 2021-present *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: High School to PhD Event

- 2019 *Planning committee*
- Plan annual event for high school students from underserved communities to learn about research, PhD programs, and alternative careers

Stanford University 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 *Department student representative*

- Liaison between students and the department
 - Plan and organize department events
- 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
- Broader Biosciences community**
- 2019-2020 *Home program representative*
- Liaison between Biology (Ecology and Evolution) students and the broader Biosciences program through the Stanford School of Medicine

FIELD EXPERIENCE

- 2023 Idaho, United States of America
- Set Sherman traps to capture small mammals for museum expedition
- 2019, 2020 New Zealand
- Radio telemetry to find Brown Kiwi birds and collected fecal samples for microbiome analysis
- 2018 Costa Rica
- Mistnet birds, collected fecal samples for microbiome analysis
- 2016 California, United States of America
- Collected floral nectar from *Diplacus* flower to measure volume, pH, and identify microbes

REFERENCES

Tadashi Fukami	Kayce C. Bell	Manpreet K. Dhami
Professor Stanford University Stanford, CA, USA fukamit@stanford.edu	Associate Curator NHMLAC Los Angeles, CA, USA kbell@nhm.org	Senior Researcher Manaaki Whenua Landcare Research Lincoln, New Zealand dhamim@landcareresearch.co.nz