

DIANA JESSIE RENNISON (Née Windsor)

Assistant Professor
School of Biological Sciences
Department of Ecology, Behavior & Evolution
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PROFESSIONAL APPOINTMENTS

11.2019 – Present

Assistant Professor, Division of Biological Sciences, Ecology, Behaviour & Evolution
Section, University of California San Diego.

10.2016 – 11.2019

Marie Skłodowska-Curie Fellow, Evolutionary Ecology, University of Bern.
Supervisor: Catherine L. Peichel

EDUCATION

01.01.2011 – 30.09.2016

Doctor of Philosophy, Zoology, University of British Columbia.
Supervisor: Dolph Schluter

Dissertation: Detecting the drivers of divergence: Identifying and estimating natural
selection in threespine stickleback.

01.09.2008 – 01.11.2010

Master of Science, Biology, University of Victoria.
Supervisor: John S. Taylor

Thesis: Spatial characterization of visual opsin gene expression in the guppy.

01.09.2004 – 30.04.2008

Bachelor of Science Honours, Biology, University of Victoria.
Supervisor: John S. Taylor

Thesis: Opsin gene duplication and divergence in Trinidadian guppies.

PEER-REVIEWED PUBLICATIONS

*Indicates trainee

44. Leandro, D., M. Johnson, A. Schneider, A. Lázaro-Lobo, A. Caizergues, C. Lara, C.
Iniguez-Armijos, C. Gonzalez-Lagos, C. Frost, **D. Rennison**, E. del-Val, G. Hood, I. Porth,

- J. LaMontagne, J. Santangelo, J. Paule, K. Stack Whitney, K. Dyson, K. Gotanda, M. Comerford, M. Just, P. Akinhole, S. Gkelis, T. Merritt, W. Godsoe, V. Pfeiffer, & F. Angeoletto. 2024. GLUEing the world: The GLobal Urban Evolution project and its importance to urban biodiversity conservation. Chapter 12 *In Ecology of Tropical Cities – Natural and Social Sciences Applied to the Conservation of Urban Biodiversity*. Springer Publishing.
43. Härer, A*, K.A. Thompson, D. Schluter, & **D.J. Rennison**. 2024. Associations between gut microbiota diversity and a host fitness proxy in a naturalistic experiment. *Molecular Ecology* e17571.
 42. Bakker, T.C.M, M. Hiermes, B. Müller, S. Martin, **D.J. Rennison**, & I.P. Rick. 2024. Adaptive variation in opsin expression of sticklebacks from different photic habitats. *Hydrobiologia* s10750
 41. Tapanes, E.* & **D.J. Rennison**. 2024. The genetic basis of melanic pigmentation traits in benthic-limnetic threespine stickleback. *Heredity* 272:1-9
 40. Härer, A*. & **D.J. Rennison**. 2024. Host ecotype and rearing environment are the main drivers of threespine stickleback gut microbiota diversity in a field experiment. *Royal Society Open Science* 11:240649
 39. Johnson, M.T., I. Arif, F. Marchetti, J. Munshi-South, R.W. Ness, M. Szulkin, B.C. Verrelli, C.L. Yauk, D.N. Anstett, W. Booth, A.E. Caizergues, E.J. Carlen, A. Dant, J. González, C. González Lagos, M. Oman, M. Phifer-Rixey, **D.J. Rennison**, M.S. Rosenberg, & K. Winchell. 2024. Urban mutants: effects of urbanization on mutation, evolution and health. *Nature Ecology and Evolution* 8:1074-1086.
 38. Härer, A*, & **D.J. Rennison**. 2024. Gut microbiota uniqueness is associated with lake size – a proxy for diet diversity – in stickleback fish. *American Naturalist* 203(2) 284-291.
 37. Härer, A*. & **D.J. Rennison**. 2023. The effects of host ecology and phylogeny on gut microbiota (non)parallelism across birds and mammals. *mSphere* e00442-23
 36. Härer, A*, A.A. Mauro, T.G. Laurentino, E.B. Rosenblum, & **D.J. Rennison**. 2023. Gut microbiota parallelism and divergence in White Sands lizards. *Molecular Ecology* 32(20): 5661-5672
 35. Härer, A*. & **D.J. Rennison**. 2023. Validity of faecal sampling for characterization of variation in threespine stickleback gut microbiota. *PLoS One* 18(9): e0290875.
 34. Härer, A*, & **D.J. Rennison**. 2023. The biogeography of host-associated bacterial microbiomes: Revisiting classic biodiversity patterns. *Global Ecology and Biogeography* 32(6): 931-944.
 33. Poore, H.A., Y.E. Stuart, **D.J. Rennison**, M. Roesti, A.P. Hendry, D.I. Bolnick, & C.L. Peichel. 2023. Repeated genetic divergence plays a minor role in repeated phenotypic divergence of lake-stream stickleback. *Evolution* 77(1): 110-122.
 32. Härer, A*, & **D.J. Rennison**. 2022. Quantifying (non)parallelism of gut microbial community change using multivariate vector analysis. *Ecology and Evolution* 12(12) e9674.
 31. Santangelo, J.S., the GLUE consortium (including **Rennison, D.J**), and Johnson, M.T. 2022. Global urban environmental change drives adaptation in white clover. *Science* 375(6586):1275-1281.

30. **Rennison, D.J.**, & C.L. Peichel. 2022. Pleiotropy facilitates parallel adaptation in sticklebacks. *Molecular Ecology* 31(5):1476-1486.
29. Thompson, K.A., C.L. Peichel, **D.J. Rennison**, M.D. McGee, A.Y.K. Albert, T.H. Vines, A.K. Greenwood, A.R. Wark, M. Schumer, & D. Schluter. 2022. Analysis of ancestry heterozygosity suggests that hybrid incompatibilities in threespine stickleback are environment dependent. *PLoS Biology* 20(1): e3001469.
28. Owens, G.L., T. Veen, D.R. Moxley*, L.A. Rodriguez, M. Tobler, & **D.J. Rennison**. 2022. Parallel shifts of visual sensitivity and body colouration in replicate populations of extremophile fish. *Molecular Ecology* 31(3) 946-958.
27. Härer, A*, D.I. Bolnick & **D.J. Rennison**. 2021 The genomic signature of trophic divergence along the benthic-limnetic axis in allopatric and sympatric threespine stickleback. *Molecular Ecology* 30(2):451-463.
26. **Rennison, D.J.**, K.E. Delmore, K.M. Samuk, G.L. Owens, & S.E. Miller. 2020. Parallel selection and geographic proximity predict shared patterns of genome-wide differentiation after colonization of novel environments. *American Naturalist* 195:192-200.
25. **Rennison, D.J.**, S.M. Rudman & D. Schluter. 2019. Parallel differentiation of the gut-microbiome during ecological speciation. *Proceedings of the Royal Society B*. 286:20191911.
24. **Rennison, D.J.**, S.M. Rudman, & D. Schluter. 2019. Genetics of adaptation: experimental test of a biotic mechanism driving divergence in traits and genes. *Evolution Letters* 3:513-520.
- Featured in the book “Improbable Destinies: Fate, Chance and the Future of Evolution” by J.B. Losos.
23. **Rennison, D.J.**, Y.E. Stuart, D.I. Bolnick, & C.L. Peichel. 2019. Ecological factors and morphological traits are associated with repeated genomic differentiation between lake and stream stickleback. *Philosophical Transactions of the Royal Society B*. 374:20180241.
22. Reyes-Contreras, M.*, G. Glauser, **D.J. Rennison**, & B. Taborsky. 2019. Early-life manipulation of cortisol and its receptor alters stress axis programming and social competence. *Philosophical Transactions of the Royal Society B*. 374:20180119.
21. Bolnick, D.I., R.D.H. Barrett, K. Oke, **D.J. Rennison**, & Y.E. Stuart. 2018. (Non)Parallel Evolution. *Annual Reviews of Ecology, Evolution & Systematics*. 49: 303-330.
20. Gygax, M*, A.K. Rentscha*, S.M. Rudman, & **D.J. Rennison**. 2018. Differential predation alters pigmentation in threespine stickleback. *Journal of Evolutionary Biology*. 31:1589-1598.
19. Brock, C., **D.J. Rennison**., T. Veen, & D.I. Bolnick. 2018. Opsin expression predicts male nuptial color in threespine stickleback. *Ecology and Evolution*. 8:7095-7102.
18. Samuk, K.M., J. Xue*, & **D.J. Rennison**. 2018. Exposure to predators does not lead to the evolution of larger brains in experimental populations of threespine stickleback. *Evolution*. 72:916-929.
17. Samuk, K.M., G.L. Owens, K.E. Delmore, S.E. Miller, **D.J. Rennison**, & D. Schluter. 2017. Gene flow and selection interact to promote adaptive divergence in regions of low recombination. *Molecular Ecology*. 26:4378-4390.
- Faculty of 1000 recommended read

16. Veen, T., C. Brock, **D.J. Rennison**, & D.I. Bolnick. 2017. Fine scale tuning of the visual system to a depth gradient in threespine stickleback. *Molecular Ecology*. 26:4339-4350.
15. Owens, G.L. & **D.J. Rennison**. 2017. Evolutionary ecology of opsin gene sequence, expression and repertoire. *Molecular Ecology*. 26:1207-1210. (Invited perspective)
14. Rudman, S.M., J. Heavyside, **D.J. Rennison**, & D. Schluter. 2016. Piscivore addition causes a trophic cascade within and across ecosystem boundaries. *Oikos*. 125:1782-1789.
13. **Rennison, D.J.**, G.L. Owens, N. Heckman, D. Schluter, & T. Veen. 2016. Rapid adaptive evolution of colour vision in the threespine stickleback radiation. *Proceedings of the Royal Society B*. 283:20160242.
12. Miller, S.E., K.M. Samuk, & **D.J. Rennison**. 2016. An experimental test of predation's effect upon behaviour and trait correlations in threespine stickleback. *Biological Journal of the Linnean Society*. 119:117-125.
11. **Rennison, D.J.**, K. Heilbron, R.D.H. Barrett, & D. Schluter. 2015. Discriminating selection on lateral plate phenotype and its underlying gene, Ectodysplasin, in threespine stickleback. *American Naturalist*. 185:150-156.
- Faculty of 1000 recommended read
10. Andrew, R., A.Y.K. Albert, S. Renaut, **D.J. Rennison**, D. Bock, & T.H. Vines. 2015. Assessing the reproducibility of discriminant function analyses. *PeerJ*. 3:e1137.
9. Seehausen, O., R.K. Butlin, I. Keller, C.E. Wagner, J.W. Boughman, P.A. Hohenlohe, C.L. Peichel, G-P. Saetre, C. Bank, Å Brännström, A. Brelsford, C. Clarkson, F. Eroukmanoff, J.L. Feder, M. Fischer, A.D. Foote, P. Franchini, C.D. Jiggins, F.C. Jones, A.K. Lindholm, K. Lucek, M.E. Maan, D.A. Marques, S.H. Martin, B. Matthews, J.I. Meier, M. Möst, M.W. Nachman, E. Nonaka, **D.J. Rennison**, J. Schwarzer, E.T. Watson, A.M. Westram, & A. Widmer. 2014. Genomics and the origin of species. *Nature Reviews Genetics*. 15:176-192.
8. Vines, T.H., A.Y.K. Albert, R. Andrew, F. Débarre, D. Bock, M.T. Franklin, K.J. Gilbert, J.-S. Moore, S. Renaut, & **D.J. Rennison**. 2014. How does the availability of research data change with time since publication? *Current Biology*. 24:1-4.
- Faculty of 1000 recommended read
7. Vines, T.H., R. Andrew, D. Bock, M.T. Franklin, K.J. Gilbert, N.C. Kane, J.-S. Moore, B.T. Moyers, S. Renaut, **D.J. Rennison**, T. Veen, & S. Yeaman. 2013. The relative effectiveness of data archiving policies. *FASEB J*. 27.
6. **Rennison, D.J.**, G.L. Owens & J.S. Taylor. 2012. Opsin gene duplication and divergence in ray-finned fish. *Molecular Phylogenetics and Evolution*. 62:986-1008.
5. Owens, G.L., **D.J. Rennison**, W.T. Allison, & J.S. Taylor. 2012. In the four-eyed fish (*Anableps anableps*), the regions of the retina exposed to aquatic and aerial light do not express the same set of opsin genes. *Biology Letters*. 8:86-89.
4. Gilbert, K.J., R. Andrew, D. Bock, M.T. Franklin, N.C. Kane, J.-S. Moore, B.T. Moyers, S. Renaut, **D.J. Rennison**, T.H. Vines, T. Veen, & S. Yeaman. 2012. Recommendations for utilizing and reporting population genetic analyses: the reproducibility of population clustering using the program STRUCTURE. *Molecular Ecology*. 21:4925-4930.
3. **Rennison, D.J.**, G.L. Owens, W.T. Allison, & J.S. Taylor. 2011. Intra-retinal variation of opsin gene expression in the guppy (*Poecilia reticulata*). *Journal of Experimental Biology*. 214:3248-3254.

2. **Windsor, D.J.**, & G.L. Owens. 2009. The opsin repertoire of *Jenynsia onca*: A new perspective on gene duplication and divergence in livebearers. *BMC Research Notes*, 2:159.
1. Owens, G.L., **D.J. Windsor**, J. Mui, & J.S. Taylor. 2009. A fish eye out of water: Ten visual opsins in the four-eyed fish, *Anableps anableps*. *PLoS One* 4:e5970.

MANUSCRIPTS IN REVIEW OR REVISION

*Indicates trainee

1. Gould, E, Fraser, H.S, Parker, T.H., et al. [252 authors including **D.J. Rennison**]. Same data, different analysts: variation in effect sizes due to analytical decisions in ecology and evolutionary biology. In Review *BMC Biology*.
2. Battlay, P., B.T. Hendrickson, J.I. Mendez-Reneau, J.S. Santangelo, L.J. Albano, J. Wilson, A.E. Caizergues, N. King, A. Punetes, A. Tudoran, C. Violle, F. Vasseur, M. Foster, C. Stamps, S.G. Innes, R. Allio, F. Angeoletto, D.N. Anstette, J. Anstett, A. Bucharova, M.S. Comerford, S. David, M. Falahati-Anbaran, W. Godsoe, C. González-Lagos, P.E. Gundel, G.R. Hood, R. Karousou, C. Lampei, C. Lara, A. Lázaro-Lobo, D. Leandro, T.J.S. Merritt, N. Mitchell, M.M. Bazargani, A. Moles, M. Murúa, J. Paule, V. Pfeiffer, J.A.M. Raeymaekers, **D.J. Rennison**, R.S. Rios, J.K. Rowntree, A.C. Schneider, K.S. Whitney, Í. Tamburrino, A. VanWallendael, P.Y. Kim, R.W. Ness, M.T. Johnson, K.A. Hodgins, & N.J. Kooyers. Structural variants underlie parallel adaptation following global invasion. In Review *Nature Ecology and Evolution*
3. Härer, A*, J. Dominguez, J.B. Shurin, & **D.J. Rennison**. Spatial variation of bacterial diversity within and across mountain lakes of varying size. In Review *FEMS Microbiology Ecology*
4. Tsai, B.*, E. Tapanes*, A.L. Fraser, R. El-Sabaawi, & **D.J. Rennison**. Effect of marine reference on inferred evolutionary patterns of freshwater stickleback. In Revision *Ecology & Evolution*
5. Härer, A*. & **D.J. Rennison**. Host traits and environmental variation shape gut microbiota diversity in wild threespine stickleback. In Review *Animal Microbiome*

MANUSCRIPTS IN PREP

*Indicates trainee

1. Varey, L.*, & **D.J. Rennison**. Lateral plate area is a better predictor of function than lateral plate number. For *Evolution*.
2. Tsai, B.*, S. Reese*, K.A Thompson, M. Roesti, & **D.J. Rennison**. Correlated evolution of suites of traits in threespine stickleback. For *Journal of Evolutionary Biology*.
3. Verrelli et al. An urban perspective to fundamental questions in molecular biology and evolution. For *Molecular Biology and Evolution*.
4. Dominguez, J., A. Härer, C.B. Wall, C. Symons, **D.J. Rennison**, & J. Shurin. Contrasting biogeography of host-associated and free-living microbial metacommunities across two study systems.

GRANTS, FELLOWSHIPS AND AWARDS

Research Grants

Funded

- PI, 2023 – 2028, *NIH NIGMS R35 (GRANT13719266): “Understanding predictability of evolutionary trajectories”* – \$1,913,480
- PI, 2021 – 2023, *California Conservation Genomics Project Grant: “Landscape genomics of the threespine stickleback species complex in California”* – \$43,350
- Co-PI, 2021 – 2023, *California Conservation Genomics Project Grant: “Population genomics of hybridization and adaptation in Tui and Arroyo Chubs”* – \$50,000
- Co-PI, 2021 – 2023, *California Conservation Genomics Project Grant: “Landscape genomics of the Speckled Dace species complex in California”* – \$46,400
- Co-PI, *Paul G. Allen Foundation Discovery Centre Grant: “Neurobiology in Changing Oceans (ADC-NiceCO)”* – \$10,000,000

Research Fellowships, Honours, Scholarships and Other Awards

- Scialog Fellow for the Neurobiology and Changing Ecosystems Initiative, 2025
- Hellman Foundation Fellowship, 2022 (\$49,950)
- NSF ACCESS Extended Collaborative Support Computational Resource Award, 2021 & 2022 (\$1,200 x 2)
- American Society of Naturalists Jasper Loftus-Hills Young Investigators Award, 2020 (\$1,200)
- Canadian Society for Ecology and Evolution Early Career Award, 2020 (\$1,500)
- Marie Skłodowska-Curie Individual Fellowship, European Commission, 2018 (€187,410)
- Raja Rosenbluth Award for Women in Biological Sciences, University of British Columbia, 2016 (\$5,000)
- Excellence in Doctoral Research Award, Canadian Society for Ecology and Evolution, 2016 (\$750)
- The Company of Biologists Research Grant, Society for Experimental Biology, 2015 (£270)
- Grant-In-Aid of Research, Society for Integrative and Comparative Biology, 2014 (\$1,000)
- Zoology Graduate Fellowship, University of British Columbia, 2014 & 2015 (\$11,034)
- Four-Year Fellowship, University of British Columbia, 2011 (\$66,000)
- Rosemary Grant Graduate Student Research Award, Society for the Study of Evolution, 2011 (\$2,500)
- National Science and Engineering Research Council of Canada Post-Graduate Student Fellowship, 2010 (\$63,000)

- Max Plank Research School for Organismal Biology Fellowship, 2010 (€58,392)
**Declined*
- King-Platt Award for Research, University of Victoria, 2009 (\$2,000)
- Graduate Student Fellowship, University of Victoria, 2008 & 2009 (\$18,000)

TEACHING

- Lecturer, University of California San Diego, BIEB 156 Evolution and Society, Winter 2023 & Winter 2024
- Lecturer, University of California San Diego, BIEB 150 Evolutionary Biology, Fall 2020 & Fall 2022.
- Secondary Lecturer, University of Bern, Second Year Course in Evolutionary Biology, 2017
- Secondary Lecturer, University of Bern, Third Year Practical Course in Evolutionary Ecology, 2016 & 2017

MENTORING AND SUPERVISION

University of California San Diego

Post-doctoral Fellows

- Andreas Härer, 2020 – Present - 9 first author papers published, 1 in review
- Elizabeth Tapanes, 2021 – 2023 - 1 first author paper published, 1 co-author in review
- Zachary Tobias, 2024 – Present

Graduate Students:

- Caitlin Wise (PhD), 2021 – Present
- David Ferranti (PhD), 2021 – Present
- Brandon Tsai (BS/MS), 2020 – 2023 - 1 first author paper in review, 1 in prep
- Emma Kurstjens (BS/MS), 2020 – 2023 – 1 co-authored paper in prep
- Christina Puzzanghera (BS/MS), 2020 – 2022
- Laura Varey (BS/MS), 2020 – 2022 - 1 first author paper in prep

Undergraduate Students:

- Sophia Hermosillo-Ramirez, BS Student (BISP 199), 2022 – 2024
- Vishwa Pandya, BISP, BSc Student (BISP 199), 2022 – 2023
- Denise Meier, BSc Student (BISP 199), 2020 – 2023
- Sean Reese, BSc Student (Volunteer), 2020 – 2021 - 1 first author paper in prep
- Mia Tonkin, BSc Student (BISP 199), 2022
- Ashley Toba Ruiz, 'ENLACE' Summer Intern, 2022

- Camila Arregui Sosa y Silva, 'ENLACE' Summer Intern, 2022
- Christine Frazier, 'STARS' Summer Intern, 2022, 2023 – 1 co-author paper published
- Alina Shahin, 'STARS' Summer Intern, 2021

University of Bern

Graduate Students:

- Maria Reyes Contreras (MSc), 2017 - 1 first author paper published
- Ana Rentsch (MSc), 2016 - 1 first author paper published
- Michelle Gyax (MSc), 2016 - 1 first author paper published

Undergraduate Students:

- Alexandra Zurlinden, BSc Honours Student, 2018
- Tim Ogi, BSc Honours Student, 2018

University of British Columbia

- Seven Undergraduate Summer Students, 2011 – 2016 - 2 of these students (K. Heilbron & J. Xue) are co-authors on published papers.

Graduate Student Supervisory Committees, Mentorship, and Rotations

- Sarah Ardell *PhD Candidate, 2021 – 2024*
- Henry Baker *PhD Candidate, 2021 – 2023*
- Julia Bebout *PhD Student, 2023 – Present*
- Dillon Travis *PhD Candidate, 2022 – 2023*
- Joshua Dominguez *PhD Candidate, 2022 – Present*
- Alexia Fabiani *PhD Student, 2021 – 2022*
- Gabriela Freeman *BS/MS Student, 2023 -2024*
- Cassandra Koga *BS/MS Student, 2020 – 2021*
- Kevin Kubo *BS/MS Student, 2021 – 2022*
- Jess Mullins *PhD Student, 2022 (Rotation)*
- Aaron Oliver *PhD Candidate, 2023 – Present*
- Abhinaya Pathak *PhD Student, 2023 – Present*
- Cindy Tran *BS/MS Student, 2022 – 2023*

COLLABORATIVE RESEARCH INITIATIVES & WORKING GROUPS

- Urban Evolution Working Group 2022 – 2024

- Member of the Global Urban Evolution (GLUE) Project consortium, 2018 – Present
- NSF LIFE: Leveraging Innovations from Evolution Workshop 2023
- Many EcoEvo Analyst Project, 2020 – 2023
- Member of the Reproducibility working group, University of British Columbia, 2011 – 2015
- Member of the Genetics and Genomics of Speciation working group, European Science Foundation, 2013

INVITED SEMINARS AND SYMPOSIA

- Loyal University Chicago, Biology Seminar, 2024
- University of California Irvine, Biology Seminar, 2024
- New York University Biology Seminar, 2024
- University of Southern California Biology Seminar, 2024
- University of California Riverside Biology Seminar, 2024
- University of Victoria Biology Seminar, 2024
- Washington State University Biology Seminar, 2023
- American Society of Naturalists Meeting President's Symposium, 2021
- University of Southern California Marine Environmental Biology Seminar, 2020
- Canadian Society for Ecology and Evolution Early Career Symposium, 2020
- Scripps Institute for Oceanography, La Jolla, USA, 2020
- Clinical Neuroscience Meeting, Inselspital, Bern Switzerland, 2019
- Department of Biology, University of California San Diego, USA, 2018
- Polygenic Adaptation Symposia, University of Zurich, Zurich, Switzerland, 2017
- EAWAG Centre for Aquatic Research, Kastanienbaum, Switzerland, 2017
- Gordon Research Seminar on Speciation, Barga, Italy, 2017

RECENT CONTRIBUTED TALKS AND POSTERS

- Joint Congress on Evolutionary Biology, Montreal, Canada, 2024
- Annual American Society for Evolution Meeting, New Mexico, USA, 2023
- Annual American Society for Evolution Meeting, Cleveland, USA, 2022
- European Society for Evolutionary Biology, Turku, Finland, 2019
- Joint Congress on Evolutionary Biology, Montpellier, France, 2018
- European Society for Evolutionary Biology, Groningen, Netherlands, 2017
- Canadian Society for Ecology and Evolution, Victoria, Canada, 2017

PROFESSIONAL ACTIVITIES AND SERVICE

- Rosenblatt Lectureship Committee 2023 – Present
- Animal Users Committee 2023 – Present
- Biological Sciences Seminar Committee 2024 – Present
- Associate Editor *Proceedings of the Royal Society B*, 2021 – Present
- Special Issue Guest Editor for *Molecular Ecology*, 2022 – Present
- EBE Awards Committee 2022 – 2024
- Invited reviewer for 38 manuscripts: *Annals of the New York Academy of Sciences* (1), *Axios* (1), *Behavioural Ecology & Sociobiology* (1), *Biological Journal of the Linnean Society* (1), *Current Zoology* (2), *Ecology and Evolution* (2), *Environmental Biology of Fishes* (1), *Evolution* (4), *Evolution Letters* (1), *Heredity* (1), *ISME* (1), *Journal of Heredity* (1), *Journal of Molecular Endocrinology* (1), *Molecular Biology and Evolution* (1), *Molecular Ecology* (7), *Molecular Phylogenetics & Evolution* (1), *Nature Communications* (2), *Nature Ecology & Evolution* (2), *PLoS Biology* (1), *Proceedings of the National Academy of Sciences* (2), *Proceedings of the Royal Society B* (2), *Royal Society Open Science* (1) *Science* (1)
- *Ad hoc* reviewer for 4 grants: National Science Foundation DEB panel (1), European Research Commission (1), Research Grants Council of Hong Kong (2).
- *TRELS Program Reviewer* Fall 2021, Winter 2022, Fall 2022, Winter 2023, Spring 2023, Fall 2023, Winter 2024, Spring 2024, Summer 2024, Fall 2024.
- Scripps Institute of Oceanography Fish Biologist/Vertebrate Curator Faculty Search Committee, 2021 – 2022
- UCSD Neuroethology Faculty Search Committee, 2019 – 2020
- Student talk judge at the American Society of Naturalists Standalone Meeting, 2020
- University of Bern Seminar Organization Committee, 2016 – 2019
- Poster Judge at the Biology17 Meeting of Swiss Biologists, 2017

DIVERSITY, EQUITY & INCLUSION INITIATIVES

- BRIC (Building a respectful and inclusive culture) leadership training 2023
- Centre for the Improvement of Mentored Experiences in Research (CIMER) training 2022
- Faculty Representative, UCSD School of Biological Sciences, Diversity, Equity, and Inclusion Committee, 2020 – 2023
- Faculty Mentor ENLACE program, 2022
- Revelle College First Gen and Finest series, 2021 – 2022
- Seminar for the UCSD ROOTS program, 2021
- Faculty Mentor, UCSD STARS program for URM students, 2020, 2021, 2022