

Evan P. Economo

Assistant Professor
Biodiversity and Biocomplexity Unit (<http://arilab.unit.oist.jp/>)
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economo@oist.jp
Citizenship: USA, Canada

EDUCATION

2009 Ph.D. University of Texas at Austin. *Ecology, Evolution, & Behavior*.

2002 B.S. University of Arizona. *Ecology & Evolutionary Biology*.

APPOINTMENTS

Okinawa Institute of Science and Technology Graduate University

2012 - present Assistant Professor, Principal Investigator, *Biodiversity and Biocomplexity Unit*

2011 - 2012 Visiting Assistant Professor

University of Michigan

2012 - 2017 Visiting Assistant Prof., Dept. of Ecology and Evolutionary Bio., Museum of Zoology

2009 - 2012 Postdoctoral Fellow - Michigan Society of Fellows
Assistant Prof. (non tenure-track)- Dept. of Ecology and Evolutionary Biology

PUBLICATIONS

Book

Sarnat, E.M., & **Economo, E.P.** (2012). *The Ants of Fiji*. University of California Press. (400 pages)

Journal Articles

Published | In Press

64. Friedman, N.R., Remes, V.R., **Economo, E.P.** (*In Press*) A morphological integration perspective on the evolution of dimorphism in sexes and social insect castes. *Integrative and Comparative Biology*.
63. Sarnat, E. M., Liu, C., Hita Garcia, F., Dudley, K., **Economo, E.P.** (*In Press*) Ready Species One: exploring the use of augmented reality for biodiversity discovery with a technology-enhanced revision of Fijian *Strumigenys*. *Insect Systematics and Diversity*.
62. Ross, S.R. Friedman, N.R., Janicki, J., **Economo, E.P.** (*In Press*) A test of trophic and functional theories of island biogeography using the avifauna of a continental archipelago. *Journal of Animal Ecology*.
61. Richter, A., Keller, R., Rosumek, F.B., **Economo, E.P.**, Hita Garcia, F., Beutel, R.G. (2019) The cephalic anatomy of the *Wasmannia affinis* (Formicidae, Hymenoptera, Insecta) worker caste and its evolutionary implications. *Arthropod Structure and Development* 49: 26-39.
60. **Economo, E.P.**, Huang, J.P., Fischer, G., Sarnat, E.M. Janda, M., Narula, N., Guénard, B., Longino, J., Knowles, L.L. (2019) Evolution of the latitudinal diversity gradient in the hyperdiverse ant genus *Pheidole*. *Global Ecology and Biogeography* 28: 456-470.
59. Takashina, N., Kusumoto, B., Kubota, Y., **Economo, E.P.** (2019) A geometric approach to scaling individual distributions to macroecological patterns. *Journal of Theoretical Biology* 461: 170-188.
58. Agavekar, G., Agashe, D., **Economo, E.P.** (2019) Dimensions of ant biodiversity on a tropical island. *Insect Conservation and Diversity* 12: 161-171.
57. Mao, Y. *, **Economo, E.P.** *, Satoh, N. * (2018) The roles of introgression and climate change in the diversification and rise to dominance of *Acropora* corals. *Current Biology* 28: 3373-3382.
*corresponding, co-senior authors
56. Moser, D., Lenzer, B., Weigelt, P., Dawson, W., Kreft, H., Pergl, J., Pysek, P., van Kleunen, M., Winter, M., Capinha, C., Cassey, P., Dullinger, S., **Economo, E.P.**, Garcia-Diaz, P., Guénard, B., Maurel, N., Seebens, H., Stein, A., Essl, F. (2018) Remoteness promotes biological invasions on islands worldwide. *Proceedings of the National Academy of Sciences* 115: 9270-9275.
55. Khalife, A., Keller, R.A., Billen, J., Hita Garcia, F., **Economo, E.P.**, Peeters, C. (2018) Skeletomuscular adaptations of head and legs of *Melissotarsus* ants for tunneling through living wood. *Frontiers in Zoology*, 15: 30.

54. Barlow, J., Franca, F., Gardner, T.A., Hicks, C., Lennox, G., Berenguer, E., Castello, L., **Economo, E.P.**, Ferreira, J., Guénard, B., Leal, C.G., Isaac, V., Lees, A., Parr, C., Wilson, S., Young, P., Graham, N. (2018) The future of hyperdiverse tropical ecosystems. *Nature* 559: 517-526.
53. Iglesias, T.L., Warren, D.L., Dornburg, A., Wainwright, P.C., Schmitz, L., **Economo, E.P.** (2018) Eyes wide shut: The impact of dim-light vision on neural investment in marine teleosts. *Journal of Evolutionary Biology* 31: 1082-1092.
52. Staab, M., Hita Garcia, F., Liu, C., Xu, Z.H., **Economo, E.P.** (2018) Systematics of the ant genus *Proceratium* Roger (Hymenoptera, Formicidae, Proceratiinae) in China - with descriptions of three new species based on micro-CT enhanced next-generation morphology. *Zookeys* 770: 137-192.
51. **Economo, E.P.***, Narula, N., Friedman, N., Weiser, M., Guénard, B.* (2018) Macroecology and macroevolution of the latitudinal diversity gradient in ants. *Nature Communications* 9: 1778. *equal contribution
50. Matos-Maravi, P. Clouse, R. M., Sarnat, E. M., **Economo, E. P.**, LaPolla, J. S., Borovanska, M., Rabeling, C., Czekanski-Moir, J., Latumahina, F., Wilson, E. O., Janda, M. (2018) An ant genus-group (*Prenolepis*) illuminates the drivers of insect diversification in the Indo-Pacific. *Molecular Phylogenetics and Evolution* 123:16-25.
49. Seebens, H. ...48 authors including **Economo, E.P.**...Essl, F. (2018) Historical dynamics of emerging alien species, secondary invasions, and the pool of potential new alien species. *Proceedings of the National Academy of Sciences* 115: E2264-E2273.
48. Liu, C., Dudley, K., Xu, Z., **Economo, E.P.** (2018) Mountain metacommunities: climate and spatial connectivity shape ant diversity in a complex landscape. *Ecography* 41: 101-112.
47. Ross, S., Friedman, N.R., Dudley, K., Yoshimura, M., **Economo, E.P.** (2018) Listening to ecosystems: data-rich acoustic monitoring through landscape-scale sensor networks. *Ecological Research* 33: 135-147.
46. Agavekar, G., Hita Garcia, F., **Economo, E.P.** (2017) Taxonomic overview of *Tetramorium* Mayr (Hymenoptera, Formicidae, Myrmicinae) in India with descriptions and X-ray microtomography of two new species from the Andaman Islands. *PeerJ* 5: e3800
45. Hita Garcia, F., Fischer, G., Liu, C., Audisio, T., **Economo, E.P.** (2017) Next-generation morphological character discovery and evaluation: an X-ray micro-CT enhanced revision of the ant genus *Zasphinctus* Wheeler (Hymenoptera, Formicidae, Dorylinae) in the Afrotropics. *ZooKeys* 693: 33-93.

44. Sarnat, E.M., Friedman, N.R., Fischer, G., Lecroq, B., **Economo, E.P.** (2017) Rise of the spiny ants: diversification, ecology, and function of extreme traits in the hyperdiverse genus *Pheidole*. *Biological Journal of the Linnean Society* 122: 514-538.
43. Friedman, N., Harmáčková, L., **Economo, E.P.**, Remeš, V. (2017) Smaller beaks for colder winters: thermoregulation drives beak size evolution in Australian songbirds. *Evolution* 71: 2120-2129.
42. Dawson, W., Moser, D., van Kleunen, M., Kreft, H., Pergl, J., Pysek, P., Weigelt, P., Winter, M., Lenzer, B., Blackburn, T., Dyer, E., Cassey, P., Scrivens, S., **Economo, E.P.**, Guénard, B., Capinha, C., Seebens, H., Nentwig, W., Berthou, E., Casal, C., Essl, F. (2017) Global hotspots and drivers of alien species richness across taxonomic groups. *Nature Ecology and Evolution* 1: 0186.
41. Choo, J., Carasco, C., Alvarez-Loayza, P., Simpson, B., **Economo, E.P.** (2017) Life history traits influence the strength of distance- and density-dependence at different life stages of two Amazonian palms. *Annals of Botany* 120: 147-158.
40. Hita Garcia, F., Fischer, G., Liu, C., Audisio, T.L., Alpert, G.D., Fisher, B.L., **Economo, E.P.** (2017) X-ray microtomography for ant taxonomy: an exploration and case study of two new *Terataner* (Hymenoptera, Formicidae, Myrmicinae) species from Madagascar. *PLoS ONE* 12(3): e0172641.
39. Guénard, B., Weiser, M., Gomez, K., Narula, N., **Economo, E.P.** (2017) The Global Ant Biodiversity Informatics (GABI) database: a synthesis of ant species geographic distributions. *Myrmecological News* 24: 83-89.
38. **Economo, E.P.**, Janda, M., Guénard, B., Sarnat, E.M. (2017) Assembling a species-area curve through colonization, speciation, and human-mediated introduction. *Journal of Biogeography* 44: 1088-1097.
37. Lasky, J., Keitt, T.H., Weeks, B., **Economo, E.P.*** (2017) A hierarchical model of whole-assembly island biogeography. *Ecography* 39: 982-990.
*corresponding
36. Jaitrong, W., Guénard, B., **Economo, E.P.**, Buddhakala, N., Yamane, S. (2016) A checklist of known ant species of Laos (Hymenoptera: Formicidae). *Asian Myrmecology* 8: 1-32.
35. Fischer, G., Sarnat, E.M., **Economo, E.P.** (2016) Revision and microtomography of the *Pheidole knowlesi* group, an endemic ant radiation from Fiji (Hymenoptera, Formicidae, Myrmicinae). *PLoS ONE* 11(7): e0158544.
34. Sarnat, E.M., Fischer, G., **Economo, E.P.** (2016) Inordinate spinescence: taxonomic revision and microtomography of the *Pheidole cervicornis* group (Hymenoptera: Formicidae). *PLoS ONE* 11(7): e0156709.

33. Sukumaran, J., **Economo, E. P.**, Knowles, L.L. (2016) Machine learning biogeographic processes from biotic pattern: a trait-driven dispersal and diversification model with model-choice by simulation-trained discriminant analysis of Principal Components Classification. *Systematic Biology* 65: 525-545.
32. Wepfer, P., Guénard, B., **Economo, E.P.** (2016) Influences of climate and historical land connectivity on ant beta diversity in East Asia. *Journal of Biogeography* 43: 2311-2321.
31. Liu, C., Guénard, B., Blanchard, B., Peng, Y., **Economo, E.P.** (2016) Reorganization of taxonomic, functional, and phylogenetic ant biodiversity patterns after conversion to rubber plantation. *Ecological Monographs* 86: 215-227.
30. **Economo, E.P.**, Hong, L., Page, S.E.* (2016) Social structure, endogenous diversity, and collective accuracy. *Journal of Economic Behavior and Organization* 125: 212-231. (*corresponding)
29. Janicki, J., Narula, N., Ziegler, M., Guénard, B. **Economo, E.P.*** (2016) Visualizing and interacting with large-volume biodiversity data using client-server web-mapping applications: The design and implementation of antmaps.org. *Ecological Informatics* 32: 185-193. *corresponding
28. Bharti, H., Guénard, B., Bharti, M., **Economo, E.P.** (2016) An updated checklist of the ants (Hymenoptera: Formicidae) of India with their specific distributions in Indian states. *ZooKeys* 551: 1-83.
27. Sarnat, E.M., Fischer, G., Guénard, B., **Economo, E.P.** (2015) Introduced *Pheidole* of the world: taxonomy, distribution, and biology. *ZooKeys* 543: 1-109.
26. Liu, C., Fischer, G., **Economo, E.P.** (2015). A rare ant on Samoa: first record of the cryptic subfamily Proceratiinae (Hymenoptera, Formicidae) and description of a new *Proceratium* Roger species. *Journal of Hymenoptera Research*, 46: 35-44.
25. Guénard, B., & **Economo, E.P.** (2015). Additions to the checklist of the ants (Hymenoptera: Formicidae) of Peru. *Zootaxa* 4040 (2): 225-235.
24. Fischer, G., Azorsa, F., Hita Garcia, F., Mikheyev, A.S., **Economo, E.P.** (2015). Two new phragmotic ant species from Africa: morphology and next-generation sequencing solve a caste association problem in the genus *Carebara* Westwood. *ZooKeys* 525: 77-105.
23. Guénard, B., Perrichiot, V., **Economo, E.P.** (2015). Integration of global fossil and modern biodiversity data reveals dynamism and stasis in ant macroecological patterns. *Journal of Biogeography*. 42: 2302-2312.
22. **Economo, E.P.**, Sarnat, E.M., Janda, M., Clouse, R., Klimov, P., Fischer, G., Blanchard, B.D., Ramirez, L.N., Andersen, A., Berman, M., Guénard, B., Lucky, A., Rabeling, C., Wilson,

- E.O., Knowles, L.L. (2015). Breaking out of biogeographic modules: range expansion and taxon cycles in Indo-Pacific *Pheidole*. *Journal of Biogeography* 42: 2289-2301.
21. Triantis, K.* **Economo, E.P.***, Guilhammon, F., Ricklefs, R. (2015). Diversity regulation at the macro-scales: the case of Oceanic archipelagoes. *Global Ecology & Biogeography* 24: 594-605. *equally contributing corresponding authors
 20. Liu, C., Hita Garcia, F., Peng, Y., **Economo, E.P.** (2015). *Aenictus yangi* sp. n. – a new species of the *A. ceylonicus* species group (Hymenoptera: Formicidae: Dorylinae) from Yunnan, China. *Journal of Hymenoptera Research*. 42: 33-45.
 19. Liu, C., Guénard, B., Hita Garcia, F., Yamane, S., Blanchard, B., Yang, D.R., **Economo, E.P.** (2015). New records of ant species from Yunnan, China. *ZooKeys* 477: 17-78.
 18. Hita Garcia, F., Sarnat, E.M., **Economo, E.P.** (2015). Revision of the ant genus *Proceratium* Roger (Hymenoptera, Proceratiinae) in Fiji. *ZooKeys* 475: 97-112.
 17. **Economo, E.P.**, Klimov, P., Sarnat, E., Guénard, B., Weiser, M.D., Lecroq, B., Knowles, L.L. (2015). Global phylogenetic structure of the hyperdiverse ant genus *Pheidole* reveals the repeated evolution of macroecological patterns. *Proceedings of the Royal Society of London Series B: Biological Sciences* 282: 20141416.
 16. Clouse, R. M., Janda, M., Blanchard, B., Sharma, P., Hoffmann, B.D., Andersen, A.N., Czekanski-Moir, J.E., Krushelnycky, P., Rabeling, C., Wilson, E.O., **Economo, E.P.**, Sarnat, E.M., General, D.M., Alpert, G.D., Wheeler, W.C. (2015) Molecular phylogeny of Indo-Pacific carpenter ants (Hymenoptera: Formicidae, *Camponotus*) reveals waves of dispersal and colonization from diverse source areas. *Cladistics*. 31(4): 424–437
 15. Sarnat, E.M., Rabeling, C. **Economo, E.P.**, Wilson, E.O. (2014). First record of a species from the New World *Pheidole flavens*-complex (Hymenoptera: Formicidae) introduced to the southwestern Pacific. *BioInvasions Records*. 3: 301-307.
 14. Tin, M.Y., **Economo, E.P.**, Mikheyev, A.S. (2014). Sequencing degraded DNA from non-destructively sampled museum specimens for RAD-tagging and low-coverage shotgun phylogenetics. *PLoS ONE* 9(5): e96793.
 13. Guénard, B., Blanchard, B.D., Liu, C., Yang, D., **Economo, E.P.** (2013). Rediscovery of the rare ant genus *Bannapone* (Hymenoptera: Formicidae: Amblyoponinae) and description of the worker caste. *Zootaxa* 3734: 371-379.
 12. Sarnat, E.M., **Economo, E.P.** (2013). *Pristomyrmex tsujii* sp. n. and *P. mandibularis* Mann (Hymenoptera: Formicidae). *ZooKeys* (340): 43-61.
 10. Sarnat, E.M., Blanchard, B.D., Guénard, Fasi, J., **Economo, E.P.** (2013). Checklist of the ants (Hymenoptera: Formicidae) of the Solomon Islands with new records from Makira Island. *ZooKeys* 257: 47-88.

9. **Economo, E.P.**, & Sarnat, E.M. (2012). Revisiting the ants of Melanesia and the taxon cycle: historical and human mediated invasions of a tropical archipelago. *The American Naturalist* 180 : E1-E16. (*Presidential award from ASN for best paper of 2012 in Am. Nat.*)
8. **Economo, E.P.** (2011). Biodiversity conservation in metacommunity networks: linking pattern and persistence. *The American Naturalist* 177: E167-180. (*highlighted by Faculty of 1000*)
7. Leibold, M., **Economo, E.P.**, Peres-Neto, P. (2010). Metacommunity Phylogenetics: Separating the roles of environmental filters and historical biogeography. *Ecology Letters* 13: 1290-1299.
6. **Economo, E. P.**, & Keitt, T.H. (2010). Network isolation and local diversity in neutral metacommunities. *Oikos* 119: 1355-1363.
5. Cowperthwaite, M., **Economo, E.P.**, Harcombe W., Miller, E., Meyers, L.A. (2008). The ascent of the abundant: How mutational networks constrain evolution. *PLoS Computational Biology* 4: e1000110.
4. **Economo, E. P.**, & Keitt, T.H. (2008). Species diversity in neutral metacommunities: a network approach. *Ecology Letters* 11: 52-62. (*highlighted by Faculty of 1000*)
3. Enquist, B. J., Kerkhoff, A.J., Huxman, T.E., and **Economo, E.P.** (2007). Adaptive differences in plant physiology and ecosystem paradoxes: insights from metabolic scaling theory. *Global Change Biology* 13: 591-609.
2. **Economo, E.P.**, Andrew J. Kerkhoff, Brian J. Enquist. (2005) Allometric growth, life history invariants, and population energetics. *Ecology Letters* 8: 353-360.
1. Enquist, B.J., **Economo, E.P.**, Huxman, T.E., Allen, A.P., Ignace, D.D., Gillooly, J. (2003). Scaling metabolism from organisms to ecosystems. *Nature* 423: 639-642.

Website:

antmaps.org. **Economo, E.P.**, Guénard, B., Janicki, J., Ziegler, M., Narula, N. Published online July, 2015.

PRESENTATIONS

Invited Talks

2018 Taiwan Entomological Society Annual Meeting (Keynote)
 2018 UC-Berkeley, Environmental Science, Policy, and Management

2017 Kyoto University, Asia Research Node Symposium
 2016 International Colloquium on Soil Zoology (Plenary)
 2016 International Congress of Entomology (Symposium)
 2016 Ludwig Maximilian University Munich (Ants 2016 Symposium)
 2015 University of Cambridge, Department of Zoology
 2015 Society of Population Ecology Meeting (Symposium)
 2014 Kyoto University, Evolutionary Community Ecology Symposium
 2013 Kyoto University, Symposium in honor of E.O. Wilson and the Kyoto Prize
 2013 University of the Ryukyus, Japan
 2012 Ecological Society of Japan Meeting (Symposium)
 2011 Society of Population Ecology Meeting (Symposium)
 2011 University of Alabama
 2011 Okinawa Institute of Science and Technology
 2011 University of Queensland
 2011 International Biogeography Society Meeting (Symposium)
 2010 University of British Columbia
 2010 Field Museum of Natural History
 2010 UM/SFI Complex Systems Symposium
 2004 University of New Mexico

Contributed Talks

2018 International Union for the Study of Social Insects International Congress
 2017 Ecological Society of Japan Annual Meeting
 2016 Ecological Society of Japan Annual Meeting
 2015 East Asia Joint Symposium
 2015 Ecological Society of Japan Annual Meeting
 2014 International Union for the Study of Social Insects International Congress
 2014 Ecological Society of Japan Annual Meeting
 2013 Society for the Study of Evolution Annual Meeting
 2012 International Congress of Entomology
 2011 Ecological Society of America Annual Meeting
 2011 International Biogeography Society Meeting
 2010 Ecological Society of America Annual Meeting
 2009 Encyclopedia of Life Biodiversity Synthesis Meeting, Fiji
 2007 Ecological Society of America Annual Meeting
 2003 Ecological Society of America Annual Meeting
 2002 Ecological Society of America Annual Meeting

GRANTS AND FELLOWSHIPS

- 2019-2021 Ministry of Environment (Japan) Grant
- 2016-2019 Okinawa Prefectural Government Grant (~\$1.2 million), “Developing a system for fire ant surveillance, prevention, and control in Okinawa”.

- 2017 Japanese Society for the Prom. of Science, Grant-in-Aid of Research (Kakenhi, ~\$45K) “Resolving a high-resolution global map of ant biodiversity for basic biology and applied conservation”
- 2012-2017 Economo, E. (PI), L. Knowles (co-PI). National Science Foundation (DEB 1141989), Phylogenetic Systematics. \$378,522. "Evolving hyperdiversity in phenotypic, ecological, and geographic networks: testing the taxon cycle and alternatives in Indo-Pacific *Pheidole*."
- 2009 Michigan Society of Fellows Postdoctoral Fellowship
- 2009 Marion Elizabeth Eason Scholarship, University of Texas
- 2005-2009 National Science Foundation Graduate Research Fellowship
- 2004-2005 NSF IGERT Graduate Training Fellowship in Computational Phylogenetics
- 2007 EEB Research Fellowship
- 2006 EEB Research Fellowship
- 2005 EEB Research Fellowship
- 2003 University of Texas Dean's Excellence Preemptive Fellowship
- 2004 NSF Graduate Research Fellowship Honorable Mention
- 2001 Honors College Undergraduate Research Grant, U. of Arizona
- 2001 Research Training Grant in the Analysis of Diversification, U. of Arizona

AWARDS AND HONORS

- 2016 Japan Biodiversity Action Award (to OKEON project)
- 2013 Presidential Award from American Society of Naturalists (for best paper published in *The American Naturalist* in 2012)
- 2009 Nominated for Distinguished Dissertation Award, University of Texas
- 2004 Teaching Award, School of Biological Sciences, University of Texas

CLASSROOM TEACHING

- 2013, 2014, 2015, 2016, 2017 “Ecology & Evolution” (graduate course) primary instructor. Okinawa Institute of Science & Technology Graduate University
- 2011 “EEB Senior Capstone”, primary instructor. U. of Michigan.
- 2011 “Insect Ecology & Evolution” (graduate seminar) primary instructor. U. of Michigan.
- 2010 “General Ecology”, primary instructor, U. of Michigan
- 2009 TA for “Ecology”, 2 guest lectures. U. of Texas at Austin.
- 2004 TA for “Ecology, Evolution and Society”, 3 guest lectures. U. of Texas at Austin. Won graduate teaching award from the School of Biological Sciences.

Summer School:

- 2013 Co-organized “OIST Integrative Biology Course: Big Data in Biology” (<https://groups.oist.jp/oibc>)

MENTORSHIP

OIST Postdoctoral Fellows / Staff Scientists

Clive Darwell
Georg Fischer
Benoit Guénard
Nicholas Friedman
Francisco Hita Garcia
Susan Kennedy
Beatrice Lecroq
Nao Takashina
Masashi Yoshimura
Susan Kennedy

OIST PhD Students (Thesis supervision)

Cong Liu (graduated 2018)
Patricia Wepfer (co-supervised, graduated 2018)
Yafei Mao (co-supervised, graduated 2019)
Evropi Toulkeridou (co-supervised)
Yuka Suzuki
Julian Katzke
Gaurav Agavekar
Yazmin Hanani Zurita Gutierrez

OIST PhD Students (Rotation project)

Jason Ball
Sandrine Burriel
Christopher Campbell
Shubham Gautam
Yazmin Hanani Zurita Gutierrez
Yuna Hattori
Keita Ikegami
Julian Katzke
Matti Krueger

OIST PhD Students (Rotation project, cont'd)

Yafei Mao
Menglin Wang
Han Yan
Lazzat Albekova

OIST Research Interns (undergrad or MS level, 3-6 mo. projects)

Gaurav Agavekar
Fumika Azuma
Guilherme Baiao
Benjamin Blanchard
Sandrine Burriel
Kotaro Fujiyoshi
Kelvin Chen
Adrian Richter
Natalie Greenhalgh
Osamu Horiguchi
Julia Janicki
Haruka Kasuga
Juliette Martin
Victoria McGruer
Brett Morgan
Sam Ross
Aina Urano
Patricia Wepfer

University of Michigan (2009-2012)

Supervised eleven undergraduate research projects (6 students) for independent study credit or work study (through UROP).

University of Texas at Austin (2003-2009)

Supervised 6 undergraduate students on undergraduate research

OTHER EMPLOYMENT

2002-2003 Research Technician, University of Arizona, Department of Ecology & Evolutionary Biology, lab of Brian J. Enquist.

ACADEMIC SERVICE

OIST Committees

Faculty Council (elected)
 Gender Equality Committee
 Information Technology Service Support
 Admissions Committee
 Faculty Search Committee (x3)

Human Subjects Research Review (IRB)
 Curriculum and Examinations Committee
 Prospective Council
 Working Group on Tenure Review

Subject Editor

Myrmecological News

Associate Editor

Journal of Biogeography

Peer Reviewer

American Journal of Botany
Aquatic Ecology
The American Naturalist
Biodiversity Conservation
Biological Invasions
Biological Reviews
Biology Letters
Bulletin of Mathematical Biology
Conservation Letters
Diversity and Distributions
Ecology
Ecology Letters
Ecography
Functional Ecology

Global Ecology & Biogeography
Journal of Biogeography
Journal of Ecology
Journal of Environmental Management
Journal of Theoretical Biology
Landscape Ecology
Myrmecological News
National Science Foundation (USA)
Oikos
PLoS ONE
PLoS Computational Biology
PNAS
Proceedings of the Royal Society Series B
Swiss National Science Foundation

Symposia, Conferences and Summer Schools Organized

- 2020 OIST Mini-symposium “Ant biodiversity data synthesis: present and future”
- 2019 Lead Organizer: SWARM (<http://arilab.unit.oist.jp/swarm2019/>), a collective intelligence and biorobotics conference (planned)
- 2018 IUSSI Congress, “Macroevolution of Ants”
- 2017 OKEON Chura-Mori Project Symposium
- 2017 Ecological Society of Japan, “Big Data in Ecology and Evolution”
- 2015 East Asia Joint Symposium (EAJS) (co-organizer)

- 2014 Ecological Society of Japan, “Island Biogeography: Integrating Ecological and Evolutionary Perspectives”
- 2014 IUSSI “Island Biology of Social Insects.”
- 2012 OIST Integrative Biology Course: Big Data in Biology (2.5 week summer school)

OUTREACH

- 2015-present: Founded and led OKEON (Okinawa Environmental Observation Network) Chura-Mori Project, a collaborative project between citizens and researchers in Okinawa (<http://okeon.unit.oist.jp>)
- 2012-2017 Dozens of other outreach events by lab in Okinawa, Japan. List available here: <http://arilab.unit.oist.jp/category/outreach/>
- 2015 Outreach lecture “Science Talks in English” series, Kyuyo High School, Okinawa, Japan
- 2014 “The ways of the Ant” Outreach lecture, OIST Open Day
- 2013 Biodiversity Exhibit Contributor, Okinawa Prefectural Museum, Japan
- 2011 Contributor to “Umwelt: Subjective Worlds” art exhibition, The Gallery Project, Ann Arbor, MI.
- 2010 Organized EEB/Biokids field trip for 80 Detroit elementary school students.
- 2009 Founded and organized *Science Under the Stars*, outreach lecture series, Austin, Texas. (still active: <http://scienceunderthestars.org/>)
- 2006-2008 Outreach activities on ants for schools: Matthews Elementary School, Austin, University of South Pacific open day, Hauta School, Solomon Islands.