



SANTIAGO SALINAS

EVOLUTIONARY ECOLOGIST

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+ APPOINTMENTS

2021-present	Kalamazoo College (Kalamazoo, MI) Associate Professor
2018-2021	Kalamazoo College (Kalamazoo, MI) Robert F. and Harriet G. Varney Assistant Professor
2015-2018	Kalamazoo College (Kalamazoo, MI) Assistant Professor
2014-2015	University of the Pacific (Stockton, CA) Visiting Assistant Professor
2012-2014	University of California Santa Cruz Post-doctoral Scholar (advisors: Dist. Prof. Marc Mangel and Dr. Stephan Munch)

+ EDUCATION

2012	Stony Brook University (Stony Brook, NY) Ph.D. Marine Sciences (advisor: Assoc. Prof. Stephan Munch)
2005	College of the Atlantic (Bar Harbor, ME) B.A. Human Ecology

SCIENTIFIC PRODUCTIVITY

+ PUBLICATIONS

(undergraduate co-authors denoted by *)

Hancock, G.M.*, G. Sancho, S.B. Munch, and S. Salinas. 2023. Effects of daily thermal fluctuations on the Atlantic silverside, a fish with temperature-dependent sex determination. *Journal of Fish Biology* 102:1261-1266.

Harishchandra A., H. Xue, S. Salinas, and N. Jayasundara. 2022. Thermal physiology integrated species distribution model predicts profound habitat fragmentation for estuarine fish with ocean warming. *Scientific Reports* 12:21781.

Santangelo, J.S., 285 other co-authors (including S. Salinas), and M.T.J. Johnson. 2022. Global urban environmental change drives adaptation in white clover. *Science* 375:1275-1281.   COVER ARTICLE 

Salinas, S. and N. Jayasundara. 2022. Thermal plasticity in marine organisms. In *Marine Biology: A Functional Approach to the Oceans and their Organisms* (eds. V. Guinder, P. Pratolongo, and J. Pan). CRC Press: Boca Raton, FL.

Bitter, M.C., J.M. Wong, H.G. Dam, S.C. Donelan, C.D. Kenkel, L.M. Komoroske, K.J. Nickols, E.B. Rivest, S. Salinas, S.C. Burgess, and K.E. Lotterhos. 2021. Fluctuating selection and global change: a synthesis and review on disentangling the roles of climate amplitude, predictability and novelty. *Proceedings of the Royal Society B* 288: 20210727.



Munch, S.B., W.-S. Lee, M. Walsh, T. Hurst, B.A. Wasserman, M. Mangel, and S. Salinas. 2021. A latitudinal gradient in thermal transgenerational plasticity and a test of theory. *Proceedings of the Royal Society B* 288: 20210797.

Hirakawa, K.A.* and S. Salinas. 2020. Domesticated and wild fathead minnows differ in growth and thermal tolerance. *Journal of Thermal Biology* 94:102784.

Lee, W.-S.†, S. Salinas†, Y.-R. Lee*, J.A. Siskidis, M. Mangel, and S.B. Munch. 2020. Thermal transgenerational effects remain after two generations. *Ecology and Evolution* 10:11296–11303. († co-first authors).

Salinas, S., S.E. Irvine*, C.L. Schertzing*, S.Q. Golden*, and S.B. Munch. 2019. Trait variation in extreme thermal environments under constant and fluctuating temperatures. *Philosophical Transactions of the Royal Society B* 374:20180177.

Donelson, J.M., S. Salinas, P.L. Munday, and L.N.S. Shama. 2018. Transgenerational plasticity and climate change experiments: where do we go from here? *Global Change Biology* 24:13–34.



Salinas, S. and S.B. Munch. 2015. Where should I send it? Optimizing the submission decision process. *PLoS ONE* 10:e0115451.  **FEATURED IN NATURE** 

Salinas, S. and S.B. Munch. 2014. Phenotypic complexity: integrated responses of life history characters to multiple environmental factors. *Evolutionary Ecology Research* 16:267-284.

Salinas, S. 2014. Marine biology - No head start. *Nature Climate Change* 4:1054-1055.

Salinas, S., S.C. Brown, M. Mangel, and S.B. Munch. 2013. Non-genetic inheritance and changing environments. *Non-Genetic Inheritance* 1:38-50.

Salinas, S., K. Perez, T. Duffy, S. Sabatino, L. Hice, S.B. Munch, and D.O. Conover. 2012. The response of correlated traits following cessation of fishery-induced selection. *Evolutionary Applications* 5:657-663.

Salinas, S. and S.B. Munch. 2012. Thermal legacies: transgenerational effects of temperature on growth in a vertebrate. *Ecology Letters* 15:159-163.  **COVER ARTICLE** 

Petersen, C.W., S. Salinas, R.L. Preston, and G.W. Kidder III. 2010. Spawning periodicity and reproductive behavior of *Fundulus heteroclitus* in a New England salt marsh. *Copeia* 2010:203-210.

Munch, S.B. and S. Salinas. 2009. Latitudinal variation in lifespan within species is explained by the metabolic theory of ecology. *Proceedings of the National Academy of Sciences USA* 106:13860-13864.

Salinas, S., Y.J. Brandvain, R. Anderson, J. Marty, R.L. Preston, G.W. Kidder III, and C.W. Petersen. 2004. Reproductive ecology of *Fundulus heteroclitus* and *Fundulus diaphanus* in a New England watershed. *Bulletin MDIBL* 43:115-117.

2022	Fulbright U.S. Scholar Award Instituto Tecnológico de Chascomús, Argentina
2022	Dr. Winthrop S. and Lois A. Hudson Award Kalamazoo College
2021-2026	National Science Foundation Grant: Promoting Undergraduate Student Success in STEM through Scholarships, Research Experiences, Mentoring, and Career Development (co-PI) Kalamazoo College (\$1,000,000)
2018-2021	Sherman Fairchild Foundation Grant to support summer research (co-PI) Kalamazoo College (\$247,500)
2016	Faculty/Student Summer Research Grant Kalamazoo College (\$1,000)
2011	European Science Foundation Travel Award ThermAdapt Meeting (Tartu, Estonia)
2010-2012	W. Burghardt Turner Dissertation Fellowship Stony Brook University
2009-2012	Jerry R. Schubel Fellowship Stony Brook University
2008-2009	Long Island Sound Study Science and Technical Advisory Committee Fellowship NY and CT SeaGrant
2001-2004	Davis Scholarship College of the Atlantic (full scholarship, 4 years)
1998-2000	Argentina United World College Scholarship Lester B. Pearson United World College of the Pacific (full scholarship, 2 years)

+ INVITED PRESENTATIONS

2022	Instituto de Investigaciones Marinas y Costeras, Universidad Nacional de Mar del Plata Mar del Plata, Argentina
2022	Instituto Tecnológico de Chascomús, Universidad Nacional de San Martín Chascomús, Argentina
2021	Primer Congreso Latinoamericano de Evolución (special symposium) Online event
2020	Society for Experimental Biology (SEB+) Prague, Czech Republic // canceled due to SARS-CoV-2
2020	Evolution Meeting (Spotlight session) Cleveland, OH // canceled due to SARS-CoV-2
2020	College of the Atlantic

Bar Harbor, ME // canceled due to SARS-CoV-2

- 2019 University of Maine
School of Marine Sciences
- 2019 Albion College
Biology Department
- 2015 Michigan State University
Kellogg Biological Station
- 2015 International Society for Medical Publication Professionals
Online webinar
- 2014 University of California Santa Cruz
Department of Ecology and Evolutionary Biology

+ CONFERENCE PRESENTATIONS WITH STUDENTS

(student co-authors denoted by *, presenter underlined)

- 2022 VII Simposio Argentino de Ictiología (Chascomús, Argentina)
S. Salinas, A. Gambetta*, and K. Hirakawa*
Ecological Society of America Annual Meeting (Montréal, QC)
G. Hancock*, G. Sancho, and S. Salinas
Midwest Ecology and Evolution Meeting (online)
G. Hancock* and S. Salinas
- 2019 Society for Integrative and Comparative Biology Annual Meeting (Tampa, FL)
S. Salinas, S.Q. Golden*, C.L. Schertzing*, S.E. Irvine*, and S.B. Munch
Midwest Ecology and Evolution Meeting (Macomb, IL)
K. Hirakawa* and S. Salinas
A. Gambetta* and S. Salinas
West Michigan Regional Undergraduate Science Research Conference (Grand Rapids, MI)
K. Hirakawa* and S. Salinas
- 2018 West Michigan Regional Undergraduate Science Research Conference (Grand Rapids, MI)
K. Hirakawa* and S. Salinas
- 2017 Midwest Ecology and Evolution Meeting (Grand Rapids, MI)
S. Golden* and S. Salinas
C. Schertzing* and S. Salinas
- 2011 American Society of Limnology and Oceanography Annual Meeting (San Juan, Puerto Rico)
S. Salinas, J.A. Siskidis*, and S.B. Munch 🏆 BEST PRESENTATION AWARD 🏆
- 2010 Student Conference on Conservation Science (New York, NY)
S. Salinas, J. Velasquez-Tibata, and S.B. Munch 🏆 SPECIAL MENTION (ENTIRE PRESENTATION IN HAIKU) 🏆

TEACHING & MENTORING

+ COURSES TAUGHT

KALAMAZOO COLLEGE

Form and Function with lab (BIOL 123)
Vertebrate Biology with lab (BIOL 222)
Independent Study (BIOL 295) // [Intro to Marine Science, Intro to Aquaponics, Wildlife Biology, Scientific Writing](#)
Human Physiology with lab (BIOL 376)
Senior Seminar (BIOL 490)
Evolutionary Ecology (BIOL 495)

UNIVERSITY OF THE PACIFIC

Principles of Biology (BIOL 61)
Marine Biology (BIOL 76)
Marine Birds and Mammals (BIOL 77)
Ecology and Conservation (BIOL 176)

UNIVERSITY OF CALIFORNIA SANTA CRUZ

Animal Ecology and Conservation (ENVS 123)

STONY BROOK UNIVERSITY

Prospects for Planet Earth (ENS 101)

+ RECOGNITIONS

2022, 2020, 2019, 2018, 2016	Favorite Professor Award Alpha Lambda Delta
2022, 2021, 2020, 2019	Most Valuable Professor (x7) Department of Athletics
2019	Baccalaureate Speaker Selected by the student graduation committee

SERVICE

+ KALAMAZOO COLLEGE

2015-present	Senior Individualized Project (SIP) Reader and Peer Review Coordinator 4-6 theses per year
2016-present	Academic advisor ~15 students per year
2017-present	Darwin Day Organizer
2017-present	Institutional Animal Care and Use Committee Member
2020-present	Kalamazoo College Birders Faculty Advisor
2020-2022	Academic Standards Committee Member, Chair (2021)
2021, 2020	Teaching and Learning Workshop for incoming faculty members Faculty mentor
2021	Tenure-track Faculty Position – Spanish Department Search Committee Member
2021	Vice President for Business and Finance and CFO – Kalamazoo College Search Committee Member
2021	Director of the Science Math Business and Economics Learning Centers Search Committee Member
2020	Director of Careers in Health and Medicine Position Search Committee Member
2019	Tenure-track Faculty Position – German Department Search Committee Member
2019	Visiting Faculty Position – Biology Department Search Committee Chair
2016-2019	Assessment Committee Member
2018	Tenure-track Faculty Position – Computer Science Department Search Committee Member
2018	Visiting Faculty Position – Biology Department Search Committee Member

+ SCIENTIFIC COMMUNITY

2011-present	Reviewer for journals and two textbooks <i>American Naturalist, BMC Ecology and Evolution, Conservation Letters, Current Zoology, Ecology, Ecology and Evolution, Ecology Letters, Evolution, Hydrobiologia, ICES Journal of Marine Science, Journal of Experimental Biology, Marine and Freshwater Behaviour and Physiology, Marine Environmental Research, Nature Climate Change, Oecologia, Oikos, PLOS ONE, Proceedings of the Royal Society B // Levinton's Marine Biology, Pan and Pratolongo's Marine Biology: A Functional Approach to the Oceans and their Organisms.</i>
2022-present	Peer Review Editor Frontiers in Ecology and Evolution
2023	National Science Foundation (Division of Integrative Organismal Systems) Panelist
2022	Agencia Nacional de Promoción de la Investigación, el Desarrollo Tecnológico y la Innovación (Argentina) Reviewer
2022-present 2016-2019	Pierce Cedar Creek Institute Scientific Advisory Board Member
2017	National Science Foundation (Division of Integrative Organismal Systems) Panelist
2013	Agence Nationale de la Recherche (France) Reviewer
2009-2012	Alan Alda Center for Communicating Science at Stony Brook University Program Assistant