



SONNY S. BLEICHER, Ph.D.

ECOLOGIST, EVOLUTIONARY BIOLOGIST, AND ENVIRONMENTAL SCIENTIST

CONTACT INFORMATION

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RÉSUMÉ

Publications

Published: 16 H-index: 11
In review/preparation: 6 Citations 438
I-Index: 12

Experience, Fellowships and Affiliations

2024- Loyola University New Orleans, Professor of Practice in Biology
2022-24 Xavier University of Louisiana, Assistant Professor of Organismal Biology
2021-22 Wilson College, Conservation Biology, Visiting Assistant Professor
2021 Portland State University, Envi. Sci. and Management, Visiting Faculty
2019-20 Washington and Lee University, Biology, Visiting Assistant Professor
2018-21 George Mason University, Environmental Science and Policy Affiliate
2018 AAAS Science and Technology Policy Fellowship
2018 University of Jyväskylä, Behavioral Ecology Lab
2015-18 University of Arizona, Ike Russell Fellow, Ecology and Evolutionary Biology
2015 University of Sydney, Desert Biodiversity Lab.

Education

PhD	Biology	2014	University of Illinois at Chicago
MSc	Desert Ecology	2012	Ben Gurion University of the Negev
BSc	Environmental Science	2009	Rochester Institute of Technology

Teaching Experience

- Conservation Biology
- Contemporary Biology/ Science for non-majors
- Behavioral Ecology
- Evolution
- Ecology
- Urban Ecology
- Forest Ecology
- Population and Community Biology
- Biogeography
- Comparative Vertebrate Anatomy
- Introductory Environmental Science/ Studies
- Water Policy, Politics and Conflict
- Sustainability Science
- Biodiversity
- Introductory Biology (Organismal/ Cellular)

Languages (and Nationalities)

English (USA), French (France), Hebrew (Israel)

EDUCATION

<u>Date</u>	<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Subtopic</u>	<u>Thesis Title</u>
July 2014	Ph.D.	University of Illinois at Chicago	Biological Science	Evolutionary and Behavioral Ecology	Divergent Behaviour Amid Convergent Evolution: Common Garden Experiments with Desert Rodents and Vipers
May 2012	M.Sc.	Ben Gurion University of The Negev	Desert Studies	Dryland Ecology/Community and Population Ecology	Prey Response to Predator Scent Cues; A Manipulative Experimental Series of a Changing Climate
February 2009	B.S.	Rochester Institute of Technology	Environmental Science	Environmental Health Assessment and Biological Indicators of Environmental Degradation	Non-Point Source Pollutants found in the tributaries of Irondequoit Creek Watershed within the Town of Penfield

LANGUAGES AND NATIONALITIES

	<u>NATIONALITY</u>	<u>SPOKEN</u>	<u>READ</u>	<u>WRITTEN</u>
ENGLISH	USA	Native Speaker	Native Speaker	Native Speaker
FRENCH	France	Native Speaker	Proficient	Intermediate
HEBREW	Israel	Native Speaker	Native Speaker	Native Speaker

PROFESSIONAL EXPERIENCE

<i>Date</i>	<i>Title</i>	<i>Institution</i>	<i>Location</i>	<i>Responsibilities</i>
2024-	Professor of Practice in Biological Science	Loyola University New Orleans	New Orleans, LA	Coordination of non-major science elective course in scientific exploration through experiential learning. Academic advising, and scholarly pursuit.
2022-2024	Assistant Professor of Organismal Biology	Xavier University of Louisiana	New Orleans, LA	Teaching biodiversity, environmental biology, conservation biology, Grant writing, research and publication, student advising.
2021-2022	Visiting Assistant Professor	Wilson College	Chambersburg, PA, USA	Teach undergraduate courses and labs in conservation biology, contemporary biology for nonscientists, evolution, behavioral ecology. Serve on programing committees and as expert in program assessment and design for environmental sciences.
2021	Visiting Faculty	Portland State University	Portland, OR, USA	Teach graduate and undergraduate courses and labs in forest ecology and biodiversity.
2019 -2020	Visiting Assistant Professor	Washington and Lee University	Lexington, VA, USA	Teach ecology, urban ecology, environmental studies electives and water policy and politics. Mentor undergraduate research students.
2018 - 2022	Affiliate Faculty	George Mason University[†]	Fairfax, VA, USA	Provide administrative services and presentations. Conduct research on ecological implications of urbanization.
2018	Visiting Research	University of Jyväskylä[†]	Konnevesi Research Station,	Research the importance of information, how

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	Associate/ Affiliate		Konnevesi, Finland	predator cues are affected by environmental variation.
2015-2018	Ike Russell Postdoctoral Fellow	University of Arizona	Tucson, Arizona, USA	Research human-wildlife Interactions and the spatially explicit risk perception in wildlife
2015-2016	Research and Education Development Manager	Felidae Conservation Fund	Mill Valley, California, USA	Manage education, outreach and research programs. Fundraising, grant-writing and stakeholder management.
2015	Visiting Postdoctoral Research Associate	University of Sydney[†]	Camperdown, New South Wales, Australia	Research response of dasyurid marsupials to shelter augmentation and foraging dynamics during a drought induced population bust.
2014	Teaching Postdoctoral Researcher	University of Illinois at Chicago	Chicago, Illinois, USA	Teach ecology and research the intersectionality of community and evolutionary ecology with neurobiology.
2011-2014	Teaching Assistant and Research Assistant			Teach (as TA) courses in ecology, comparative vertebrate anatomy and physiology, biology of populations and communities. Behavioral and Evolutionary Ecology Research.
2012-2013	Adjunct Professor of Environmental Science	Northeastern Illinois University	Chicago, Illinois, USA	Teach environmental science non-major's elective
2009-2012	Graduate Fellow	Ben Gurion University of the Negev	Bluestein Institutes for Desert Research, Israel	Research climate change consequences to wildlife conservation in arid climate.
2008	Research Team Lead	Town of Penfield[†]	Penfield, New York, USA	Capstone (honors) project on non-point source pollutants in Lake Ontario tributaries.

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2007,2009	REU Research Fellow	Harvard University	Harvard Forest, Petersham, Massachusetts, USA	Study on the response of ant assemblages to grazing and logging along a rainfall gradient in mesic scrublands.
2006-2009	bird bander (ringer)	Braddock Bay Bird Observatory[†]	Rochester, New York, USA	Study passerine habitat-use and diversity in reconstructed wetlands.
2005-2009	Undergraduate Research Fellow	Rochester Institute of Technology	Rochester, New York, USA	River otter post-reintroduction monitoring using scat genetics, diet analysis and GIS.
2008-2009	Teaching Assistant			TA for Conservation Biology and Ecology.
2006	Seasonal Interpretation Ranger	US National Park Service	Lava Beds National Monument, Tulelake, California, USA	Lead lava-tube cave-tours, guide naturalist walks, and act as contact person at the visitor center.
2005	Camp Counselor	Young Judea	Tel Yehuda Summer Camp, New York, USA	Informal education camp counselor
2003-2005	Informal Education Specialist	Shlomit National Service Agency	(1) TALI Education Fund, (2) Yavne'el Community Center, Israel	(1) Pluralistic Jewish education specialist in informal education. (2) Hebrew literacy education to refugees.

[†] Not Supported by Payroll

TEACHING EXPERIENCE

Date (* upcoming)	Role	Course († with lab, §graduate)	Number of Classes (sessions)	Mean number of students
2024-25	Professor of Practice	Investigating Nature	9	37
2022-4	Assistant Professor	Biodiversity (intro to organismal bio) [†]	4 Lec / 12 lab	50/20
2023-4	Assistant Professor	Introductory Biology Lecture	2	50
2021	V. Assistant Professor	Behavioral Ecology	1	20
2021	V. Assistant Professor	Evolution	1	30

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2021	V. Assistant Professor	Contemporary Biology (for nonscientists) [†]	2	50
2021	V. Assistant Professor	Biostatistics for undergraduate research capstones	1	10
2021	Teaching Faculty	Biodiversity in Space and Time ^{†§}	1	20
2021	Teaching Faculty	Forest Ecology ^{†§}	1	30
2019, 2020	V. Assistant Professor	Environmental Studies (Data to Policy)	2	18
2020, 2021	V. Assistant Professor	Water, policies and politics	1	25
2020	V. Assistant Professor	Urban Ecology [†]	1	12
2013-2014, 2008, 2019	V. Assistant Professor	Ecology [†]	7	27
2011-2012	Teaching Assistant	Population and Community Biology [†]	6	20
2013	Teaching Assistant	Comparative Vertebrate Anatomy [†]	1	20
2012-2013	Adjunct Professor	Environmental Science Elective	1	30
2009, 2021, 2023	Assistant Professor	Conservation Biology [†]	2	30



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MENTORSHIP

Year	Institution	Project-type	My Role	Number of Students
2024-25	Loyola University New Orleans	Undergraduate Research Lab	PI	4
2022-23	Xavier University of Louisiana	Undergraduate Research Lab	PI	25
2021-22	Wilson College	Biology Capstone Advising	Co Advisor to independent research projects	5
2020	Washington and Lee University	Capstone / Independent projects	Co-Mentor	4
2019-	George Mason University	Graduate Project	Committee Member	1
2015	University of Sydney	Graduate Research	Advising (as postdoc)	2
2012-14	University of Illinois	Undergraduate Research	Mentor	8

ACADEMIC ADVISING

<u>Year</u>	<u>Student Concentration</u>	<u>Number of Advisees</u>
2024-26	General Biology	20
2023-24	Pre-med	55
2022-23	Pre-med	40
2022-23	Pre-Vet	3
2022-23	General Biology	12

PEDAGOGIC WORKSHOPS (Academic)

<u>Year</u>	<u>Workshop Name</u>
2023	Undergraduate mentorship at HBCU workshop
2023	Adjusting to teaching at the time of AI
2021	Hybrid teaching using Panopto and Nearpod
2021	Integrating real-time digitized inputs into active learning modules in Office 360
2020	Developing Course Goals for Remote Learning

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2020	Structuring Courses for Remote Learning with Aims of Maximum Productivity and Minimum Stress
2020	Maintaining Community and Student Engagement While Teaching Remotely
2020	Managing workload in online and remote education
2020	Pedagogy and Purell: Alternatives for Assignments, Activities, and Assessments Brown Bag – Technology for Virtual Instruction
2020	An Online Liberal Arts Education – Keeping an Engaged Student Body
2020	Virtual Instruction: Best Practices & Creative Ideas
2020	Options for Virtual Labs in Science and Art
2020	Remote Teaching: Teleconferencing and Methods of Remote Pedagogy
2020	Using Canvas for Online and Remote Teaching
2019	Mastery- Based Testing; Introduction, Implementation and Evidence
2019	Community Based Learning Course Development
2019	Values Strengths and Interests; Assessment Tools That Can Support Personal and Professional Growth
2019	Facilitating Discussion of Controversial Political Issues in the College Classroom
2019	Community Based Learning Pedagogy in Practice: lesson learned and how to get involved.
2019	Robert's Rule; How to Navigate Faculty Meetings
2019	Active Learning in the Classroom; Lessons Learned
2019	Teaching Career Readiness; Notes from a Pilot Careers Class
2019	Navigating Registrar Systems; as guide for academic advising
2019	The 21st Centenary Library
2019	Race and Ethnicity in Higher Education
2019	Leveraging Technology to Cultivate and Inclusive Classroom
2019	Applied Inclusive Pedagogy; a Practical Guide
2019	Disability, Diversity and Inclusivity; Pedagogy in Higher Education (and Universal Design)
2019	Lecture Capture with YuJa
2019	Approving Courses for Study Abroad and International Travel Courses
2019	Title IX and the Classroom
2019	Think Globally, Teach Locally – Discovering Teaching in Global Discoveries
2013-14	Foundation of Tertiary Pedagogy (graduate course)

PROFESSIONAL TRAINING (Scientific tools workshops)

<u>Year</u>	<u>Workshop Name</u>
2023	Genetic sequencing using MiSeq lab genetic sequencer system (Illumina©): applications, library preparation and analysis.
2023	NASA ILI Tech Transfer Workshop, networking and resources provided by NASA to build academic and business partnerships.

GRANTS, AWARDS and FELLOWSHIPS

Fund. Years	Granting Organization	Award/ Grant Name	Role	Req.	Status	Comments
2024-2028	US Fish and Wildlife Service (USFWS)	F23AS00356- Conservation Science and Innovation in the Southeast	PI	\$500K	Not funded – rolled over to future funding cycle	Highly ranked, not funded due to budgetary constraints around transportation and institutional indirect costs. Referred to meeting with various granting programs in USFWS
2024-2027	National Science Foundation (NSF)	New BIO Opportunity: Building Research Capacity of New Faculty in Biology (BRC-BIO) Solicitation NSF 22-500	PI	\$500K	Not funded	Suggested resubmission
2024-2028	National Institute of General Medical Sciences (NIH)	Undergraduate Research Training Initiative for Student Enhancement (U-RISE) (T34)	CO-PI/ Mentor	\$7.75 M	Edited March 2024	All mentors are designated co-PI
2018-2019	American Association for Advancement of Science (AAAS)	Science and Technology Policy Fellowship	Fellow		Granted with USAID for 2018-2019	

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2016-2017	University of Arizona	Ike Russel Postdoctoral Fellowship	Fellow		Granted for 2016-2017	
2016-2017	Wells Fargo	Wells Fargo National Fish and Wildlife Foundation Grant	CO-PI	\$400K	\$200K funding support to Felidae Conservation Fund	NGO Funding and Research Project – Bay Area Puma Project
2016	Regina Bauer Foundation		CO-PI	\$50K	Granted to Felidae Conservation Fund	NGO Funding and Research Project – Bay Area Puma Project
2016	Frankenburg Foundation	NGO Education Grant	Ed. Dev. Man.	\$50K	Granted to Felidae Conservation Fund	Cat Aware Education Program
2016	Disney Foundation	Wildlife Conservation Grant	Ed. Dev. Man.	\$400K	\$200K Funded	Renewal of grant not supported
2016-2017	Summerlee Foundation	Conservation Education Grant	Ed. Dev. Man.	\$5K	\$5K	
2016-2017	Wells Fargo	Small Family Foundations Grants (64 applications in total)	CO-PI/ Ed. Dev. Man.	\$2-20K/ Grant	~\$50K Funded total	The exact outcome is not clear as it occurred post exit from the company.
2013	University of Illinois at Chicago	Bodmer International Research and Travel Award	Grad. Student	\$2.5K	\$1.5K Funded	
2013	ASM	Grant-in-Aid	Grad. Resear. Grant	\$15K	\$12K Funded	Supported travel to 2 conferences, and 2 out of state/ international field work sessions
2012	University of Illinois at Chicago	Bodmer International Research and Travel Award	Graduate Student	\$2.5K	\$2.5K Funded	

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2009	National Science Foundation	Research Experience for Undergraduate Summer Program Fellowship	REU Fellow	\$30K	\$25K Funded	Processed through Harvard University, and supported collaborative effort with Israel Long Term Ecological Research Program (MAARAG)
2008	Rochester Institute of Technology	Research Scholars Award	REU Fellow	\$15K	\$15K	Work in the laboratory of Paul Shipman with collaborate-ion with Ganondagan State Historic Site
2007	National Science Foundation	Research Experience for Undergraduate Summer Program Fellowship	REU Fellow	\$30K	\$25K Funded	Processed through Harvard University, and supported collaborative effort with Israel Long Term Ecological Research Program (MAARAG)

UNIVERSITY COMMITTEE SERVICES and COLLEGIALLY

<u>Date</u>	<u>Committee</u>	<u>Level</u>	<u>Duties</u>
2023-Present	Faculty Handbook Rewrite Committee	University-wide – member of committee chaired by assistant provost	Evaluate responsibility and clarity of communication rights and responsibilities of tenure-track faculty at Xavier University of Louisiana.
2022-Present	Biodiversity (intro to organismal biology) curricular change committee.	Biology Department – member of coordinating faculty	Evaluate the material, organization and aim of the only organismal biology course. Rewrite the course aims, and evaluation methods to meet comparative statistics of similar courses in other universities.

PUBLICATIONS

1. **Bleicher, S. S.**, B. P. Kotler, and J. S. Brown. 2019. Comparing Plasticity of Response to Perceived Risk in the Textbook Example of Convergent Evolution of Desert Rodents and Their Predators; a Manipulative Study Employing the Landscape of Fear. *Frontiers in Behavioral Neuroscience* 13:1–12.
2. **Bleicher, S. S.**, H. Ylonen, T. K  p  l  , and M. Haapakoski. 2018. Olfactory cues and the value of Information: voles interpret cues based on recent predator encounters. *Behavioral Ecology and Sociobiology* 72:187–199.
3. **Bleicher, S. S.**, and M. L. Rosenzweig. 2018. Too much of a good thing? A landscape-of-fear analysis for collared peccaries (*Pecari tajacu*) reveals hikers act as a greater deterrent than thorny or bitter food. *Canadian Journal of Zoology* 96:317–324.
4. **Bleicher, S. S.**, B. P. Kotler, O. Shalev, A. Dixon, K. Embar, and J. S. Brown. 2018. Divergent behavior amid convergent evolution: A case of four desert rodents learning to respond to known and novel vipers. *PLoS ONE* 13:1–17.
5. Embar, K., B. P. Kotler, **S. S. Bleicher**, and J. S. Brown. 2018. Pit fights: predators in evolutionarily independent communities. *Journal of Mammalogy* 1–25.
6. **Bleicher, S. S.** 2017. The landscape of fear conceptual framework: Definition and review of current applications and misuses. *PeerJ* 1:1–14.
7. **Bleicher, S. S.**, and C. R. Dickman. 2016. Bust economics: Foragers choose high quality habitats in lean times. *PeerJ* 2016.
8. **Bleicher, S. S.**, J. S. Brown, K. Embar, and B.P. Kotler. 2016. Novel predator recognition by Allenby’s gerbil (*Gerbillus andersoni allenbyi*): do gerbils learn to respond to a snake that can “see” in the dark? *Israel Journal of Ecology and Evolution* 62:178–185.
9. Kotler, B. P., J. S. Brown, **S. S. Bleicher**, and K. Embar. 2016. Intercontinental-wide consequences of compromise-breaking adaptations: the case of desert rodents. *Israel Journal of Ecology & Evolution* 62:186–195.
10. **Bleicher S.S.**, Haapakoski M., Morin D., Kaapala T., and Ylonen, H. 2019. Balancing food, activity and the dangers of sunlit nights. *Behavioral Ecology and Socio Biology*. 73: 7. 95-103
11. **Bleicher, S. S.**, and C. R. Dickman. 2020. On the landscape of fear: shelters affect foraging by dunnarts (*Marsupiala, Sminthopsis* spp.) in sandridge desert environment. *J. Mamm.* 101:1, 281-290.
12. **Bleicher S.S.**, Brown J.S., C.J. Downs, Kotler B.P. 2019. Playing to their evolutionary strengths; heteromyid rodents provide opposite snake evasion strategies in the face of known and novel snakes. *Journal of Arid Environments*. 173. 1-10
13. **Bleicher, S. S.**, B. P. Kotler, C. J. Downs, and J. S. Brown. 2020. Intercontinental Test of Constraint-Breaking Adaptations; Testing Behavioural Plasticity in the Face of a Predator with Novel Hunting Strategies. *Journal of Animal Ecology* 00:1–14.
14. **Bleicher, S. S.**, B. P. Kotler, and K. Embar. 2020. Ninja owl; Gerbils over-anticipate an unexpected flying predator. *Behavioural Processes* 178:1–6.

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15. Jackson, M A., and **Bleicher S.S.** *,**. Meta-Analysis Reveals Behavioral Plasticity, Not Agonistic Behavior, Facilitates Invasion of Brown Anoles (*Anolis Sagrei*) and Replacement of Green Anoles (*Anolis Carolinensis*). *Diversity*, 16, 2024, 620-638.
16. St. Juliana, J., **S. S. Bleicher****, S. Mukherjee, S. Vijayan, J. S. Brown, and B. P. Kotler. 2025. Additive, substitutable, and antagonistic prey responses to feral and native predator combinations. *Journal of Arid Environments* 229:1–11.

IN-PREPARATION (sample)

1. Pham A, Rilley J.S. and **Bleicher S.S.** **, * Personality traits of urbanizing wildlife drive evolutionary arms races and conflict with humans. (In Review *Journal of Urban Ecology*, May 2024)
 2. Dixon. AK, Menezes JFS, Wan J, Tiano I, Kotler BP and **Bleicher SS**. Can personalities have their own foraging niche? A test with *Gerbillus allenbyi* (*in revision*)
 3. St Juliana JR, Michelle WA, and **Bleicher SS.** ** Noise benefits primary consumers: frog calls act as acoustic camouflage for white-footed mice (Reworking for submission at *Ecology Letters* May 2024)
 4. Dixon AK, Kotler BP, Brown JS and **Bleicher SS** **. Underdogs diverge in battle for dominance in common garden experiments testing responses to unknown predators and competitors. (in prep- *Ecology*).
 5. **Bleicher S.S.**, Dixon AK, Brown JS, Kotler BP. Habitat partitioning strategies in the face of novel predators and competitors. (in Prep)
 6. Medina J.M and **Bleicher S.S** **, *. Urban and forest morphological variations in native green and invasive brown anoles: a meta-analysis (in Prep May 2025)
- * Indicates undergraduate research projects. ** corresponding author

CONFERENCE PRESENTATIONS and SYMPOSIA (subset)

1. 2025 (May) **Texas Woman's University**, Environmental Science Speaker Series, "The ecology of fear as a framework for the study of biological invasions". Denton, Texas, USA
2. 2025 (March) **St. Edwards University**, Environmental Sciences Symposium. "Biological Invasions, Urban Ecosystems and Socio-economic Drivers of Biodiversity Change." "Austin, Texas, USA.
3. 2025 (February) **Keuka College**. Environmental Sciences Invited Speaker. "Fear of humans as an evolutionary force: adapting to cohabitate with humans in the Anthropocene." Keuka Park, NY, USA.
4. 2025 (February) **Loyola University New Orleans**. Biology Research symposium, Guest Speaker. "Fear Competition and Evolutionary Compromise Breaking Adaptations; Common-Graden Simulations with Native and Invasive Desert Granivores and Snakes." New Orleans, LA, USA
5. 2024 (August) **Louisiana Tech**. Invited Graduate Symposium Guest Speaker. Anthropogenic and evolutionary underpinnings of biological invasions. A time bomb or the future of biodiversity?, Ruston, LA, USA.

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6. 2024 (July) **Embry Riddle Aeronautic University**. Invited Symposium Guest Speaker. The Ecology of Information, How Overstimulation Drives Bad Decisions. Prescott, AZ, USA
7. 2024 (June) **Eastern New Mexico University**. Invited Symposium Guest Speaker. Land Use and Aggression in Invasive Vertebrates, Portales, NM, USA
8. 2024 (May) **Antioch University of New England**. Invited Graduate Symposium Guest Speaker. Anthropogenic and evolutionary underpinnings of biological invasions. A time bomb or the future of biodiversity?, Keene, NH, USA
9. 2024 (March) **Gilead Scholars, a social justice scholarship program for undergraduates at Xavier University of Louisiana – Guest Series on Environmental Justice** - Environmental Justice and Animal Behavior – Early Lessons and Exploration. New Orleans, LA, USA
10. 2024 (February) **Tulane University Ecology, Evolutionary and Organismal Biology Symposium** – Human economics, and biological invasion on urban landscapes. New Orleans, LA, USA
11. 2023 (December) **Dauphin Island Sea Lab Research Symposium** - The Ecology of Fear; An Investigative Tool Measuring Adaptive Responses in Captive and Conservation Related Field Experiments, Mobile, AL, USA.
12. 2023 (September) **University of New Orleans Biology Symposium** – Urban Ecology of Fear, Facing Human Risks in New Orleans. New Orleans, LA, USA.
13. 2023. (June) Pham A., Raily, JS, and Bleicher S.S. **Xavier University Undergraduate Research Science Symposium**. Points of conflict: how does human land-use affect the distribution of urban wildlife?
14. 2022. (December) **Xavier University Biology Symposium** – Landscapes of fear as a tool for the study of invasive species and distribution of populations on the landscape. New Orleans, LA, USA
15. 2022 (September) **MacArthur Academy for Evolutionary Ecology** – Urban setting and the ecology of fear, a laboratory of macroevolutionary change? Logan, UT, USA
16. 2021 (October). **SUNY Environmental Science and Forestry**. Symposium. Tradeoffs of food and safety: Darwinian behavioral economic dynamics drive spatial distribution and community structure. Syracuse, NY, USA
17. 2020 (September). **SUNY Environmental Science and Forestry**. Guest Lecture; Predator-prey interactions in conservation research and evolutionary game theory. Syracuse, NY, USA
18. 2020. **Oikos 2020 Ecology in the Anthropocene** - Anthropogenic Landscapes, Landscapes of Fear and Speciation on the Adaptive Landscape. Reykjavik, Iceland
19. 2019. **Washington and Lee University Biological Symposium** – Evolutionary Ecology and Behavioral Optimization. Lexington, VA, USA
20. 2019. **MacArthur Academy for Evolutionary Ecology** – Assessing Risk in the Environment; an evolution of interacting methods to address predation risk. Logan, Utah, USA

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21. 2019 **American Mammalogical Congress** – Risk, Energy and Cognition; Addressing the game- theoretic challenges of predation cues. Washington, District of Colombia, USA
22. 2019. **Neurobiology Symposium**. Ecological Fear- and why Neuroscientists should care about it. George Mason University, Fairfax, Virginia, USA
23. 2019. **Environmental Science and Policy Symposium**. Landscapes of Fear: incorporating anti-predator behaviors in evolutionary theory and conservation. George Mason University, Fairfax, Virginia, USA
24. 2018. **Biological Science Symposium**. Landscapes of Fear: incorporating anti-predator behaviors in evolutionary theory and conservation. University of Jyväskylä. Jyväskylä, Finland.
25. 2018. **Gordon Research Conference on Predator Prey Interactions**— Section Leader: Macroevolutionary Patterns in Predator-Prey Interactions. Ventura, CA, USA.
26. 2018. **Biology Undergraduate Research Symposium** – Landscapes of fear: foraging, fear and conservation. University of Redlands, Redlands, California.
27. 2017. **International Mammalogical Congress (IMC) 12**—Game-on Game-Off: Bridging Ecological and Neurological Pathways to Fear. Perth, Western Australia, Australia.
28. 2017. **International Mammalogical Congress (IMC) 12**— Bringing the landscape of fear back to conservation, Perth, Western Australia, Australia.
29. 2017. **Natural Resource Department Symposium**— Bringing the Fit of Form and Function to Applied Ecology. University of Nebraska Lincoln, Lincoln, Nebraska, USA.
30. 2017. **Rosenzweig Festschrift**— Conflicts of recreation and conservation, the case of Javelinas on Tumamoc Hill. Tucson, AZ, USA.
31. 2016. **Tumamoc Hill Visiting Scholars Symposium** - The study of fear and conservation efforts: applying landscapes of fear to human-wildlife interactions in examples from the Australian sand crest desert and Tumamoc Hill, Arizona. Tumamoc People and Habitats, University of Arizona, Tucson, Arizona, USA.
32. 2015. **University of Sydney Biology Symposium** - Divergent Behavior amid Convergent Evolution. University of Sydney, Sydney, New South Wales, Australia.
33. 2014. **Dissertation Seminar EEB Symposium**- Divergent Behavior amid Convergent Evolution: common garden experiments with desert rodents and vipers. University of Illinois at Chicago, Chicago, Illinois, USA
34. 2013. **International Mammalogical Congress (IMC) 11** — Landscapes of Fear; Spatial Effects of Predator Facilitation on Convergent Rodents. Belfast, United Kingdom.
35. 2013. **International Mammalogical Congress (IMC) 11** —Macroevolution Meets Microecology: Intercontinental wide consequences of compromise-breaking adaptations. Belfast, United Kingdom.
36. 2013. **International Mammalogical Congress (IMC) 11** —Evolutionarily convergent yet behaviorally divergent: cross-continental predator-prey cross exposure. Belfast, United Kingdom.
37. 2013. **European Society for Evolutionary Biology Congress** — Do prey respond appropriately to evolutionarily novel predators? Lisbon, Portugal
38. 2013. **European Society for Evolutionary Biology Congress** — Evolutionarily Convergent Rodents do not converge on predator evasion strategy. Lisbon, Portugal

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39. 2013. **Biology Symposium** – Using game theory to assess the convergence of communities. Rochester Institute of Technology, Rochester, New York, USA.
40. 2012. **Albert Katz School of Desert Studies Dissertation Defense** - Prey Response to Predator Scent Cues; A Manipulative Experimental Series of a Changing Climate. Ben Gurion University of the Negev, Sde Boker, Israel.
41. 2011. **Behavior 2011 - Joint meeting of the Animal Behaviour Society & the International Ethological Conference** – Heat and humidity perceived risk in the face of climate change. Bloomington, Indiana, USA.
42. 2010. **What Makes Good Science?** Conference organizing team. NATO. Blaustein Institutes for Desert Research, Ben Gurion University of the Negev. Sde Boker, Israel
43. 2010. **Drylands Deserts and Desertification.** Conference organizing team. NATO. Blaustein Institutes for Desert Research, Ben Gurion University of the Negev. Sde Boker, Israel
44. 2009. **Ecological Society of America** - Similar effects on myrmecological assemblages based on grazing and logging along a rainfall gradient in Israel. Albuquerque, New Mexico, USA.
45. 2009. **Harvard Forest Summer Research Symposium** – Similar effects on myrmecological assemblages based on grazing and logging along a rainfall gradient. Petersham, Massachusetts, USA.
46. 2007. **Ecological Society of America** - Effects of grazing and removal of woody species on ant diversity. Milwaukee, Wisconsin, USA

REVIEWER DUTIES

- | | |
|---|--|
| • Behavioral Ecology and Sociobiology | • Biology Letters |
| • Zoology and Ecology | • The Open Ecology Journal |
| • Animal Behavior | • PLOS ONE |
| • Israel Journal of Ecology and Evolution | • Frontiers in Behavioral Neuroscience |
| • Functional Ecology | • Oikos |
| • Ecology Letters | • Conservation and Biogeography |
| • Animal Welfare | • Current Zoology |
| • Journal of Animal Ecology | • Swedish Environmental Protection Agency (grants) |

EDITORIAL DUTIES

- PLoS ONE – Topic Editor for Behavioral and Evolutionary Ecology.
Frontiers in Conservation Science (animal conservation subject specialist/ review editor)

ASSOCIATION MEMBERSHIPS

- American Association for Advancement of Science
- MacArthur Academy for Evolutionary Ecology
- American Association of Mammalogists
- International Society for Behavioral Ecology
- Israeli Zoological Society
- Society for Conservation Biology
- Oikos Nordic Ecological Society
- Tri Betta

PUBLIC SERVICE (selection)

- October 2023 – **Vox Magazine** – contribute to article as expert on human wildlife conflicts and collared peccaries. <https://www.vox.com/down-to-earth/23930825/golf-course-javelinas-arizona>
- October 2021- **Wilson College** – curriculum design committee, Environmental Science Program.
- December 2020- August 2021 **Portland Jewish Federation** – Joined Climate Action Committee
- September 2020 - **BBC ONE** – Consulting on heat resilient wildlife adaptation for nature documentary on climate change.
- June 2020 - **Lexington Fox Hunting Club** – Lecture on fox ecology and conservation.
- February 2016 – **California Mountain Lion Scientific Workgroup** – representative of conservation group to interagency committee designing apex predator management plan for California and Southwestern US region.

SKILLS (subset)**Pedagogy**

- Curriculum Design
- Applications of pedagogic tools to course aims and audience (Bloom's taxonomy)
- Test Writing and Student Evaluations
- Discussion leading
- Lab and field course management
- Formal and in-formal styles to audiences from kindergarten age to golden ages.
- Student mentoring and guidance (undergraduate and graduate)
- Virtual Instruction/ Remote

Field Skills

- Wildlife surveys (mammals, birds, herps, invertebrates)
- Vegetation and ground cover surveys
- Ground and surface water chemistry
- Wildlife immobilization
- Animal husbandry
- Microcosm experiments
- GIS, Radio, and RFID Tracking

Project Management

- Proposal writing
- HR. Recruiting and interviewing
- Schedule management
- Interdisciplinary report authoring
- Stakeholder management and recruiting.
- Public speaking
- Representation on interdisciplinary committees
- Interagency communication
- Permit acquisition
- Informational material design and authoring
- Presentations to, and communications with, NGOs board of trustees
- Volunteer training recruiting and management

Fundraising

- Small and large grant proposal writing
- Tabling and community outreach
- Public speaking
- Networking at local, national and international levels
- Stakeholder communication

Software

- Microsoft Suite
- Adobe Suite/ Cloud
- Systat
- Statistica
- R
- ArcGIS/ QGIS
- IDRISI
- JMP
- PAST
- EstimateS
- Mendeley
- EndNote
- Database Management (SQL, Access)
- Query and analysis in Chat GPT and Claud.

Miscellaneous

- Meta-analysis
- Ethics based experimentation training
- International field travel logistics
- Science and education policy advocacy
- Gene sequencing with MiSeq