

MICHAEL JAMES ANGILLETTA JR.

School of Life Sciences
Arizona State University
Tempe, AZ 85287

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EDUCATION

- 1998 **The University of Pennsylvania**, Philadelphia, Pennsylvania
Ph.D. in Ecology & Evolutionary Biology
- 1992 **The College of New Jersey**, Ewing, New Jersey
B.S. in Biology (*magna cum laude*)

ACADEMIC POSITIONS

- 2019-present **President's Professor**, School of Life Sciences, Arizona State University
- 2014-present **Faculty Associate**, Center for Biodiversity Outcomes
- 2012-present **Senior Sustainability Scientist**, Global Institute of Sustainability
- 2013-2019 **Professor**, School of Life Sciences, Arizona State University
- 2010-2013 **Associate Professor**, School of Life Sciences, Arizona State University
- 2006-2010 **Associate Professor**, Department of Biology, Indiana State University
- 2000-2006 **Assistant Professor**, Department of Life Sciences, Indiana State University
- 1999-2000 **Lecturer**, University of Pennsylvania
- 1993-1998 **Teaching Fellow**, University of Pennsylvania

ADMINISTRATIVE POSITIONS

- 2020- **Founding Director**, Center for Science Learning Innovation, ASU
- present
- Supervise a staff of 6 employees, including two assistant directors and curricular developers
 - Oversee programmatic efforts to develop, study, and adapt novel approaches to curriculum, instruction, and assessment to improve student outcomes (e.g., The BioSpine Initiative and Dreamscape Learn).
 - Direct the rapid development, testing, and improvement of innovative educational products that deliver high-quality outcomes for students.
 - Oversee review of educational products to ensure they are guided by current theories of teaching and learning and leverage emerging technologies.
 - Ensure that educational products support the diversity of students and promote inclusive and equitable practices
 - Optimize efforts to build educational products, instructional processes, and institutional capacities that maximize outcomes for students.
 - Manage resources of the Center, including an annual operating budget.
 - Cultivate campus-wide partnerships that support educational effectiveness and student success.
 - Supervise and mentor the Assistant Directors of the OLI to enable them to meet their responsibilities successfully.
 - Collaborate with the Director and Associate Directors of SOLS to develop and foster an organizational culture that tackles ill-defined problems, builds a network of allies, and embraces diverse and disruptive ideas.
- 2014- **Associate Director for Undergraduate Programs**, School of Life Sciences, ASU
- 2020
- Supervise a staff of more than 30 employees, including assistant directors, managers, academic advisors, lab coordinators, lecturers, academic professionals, and technology specialists
 - Supervise the management of an operating budget exceeding \$2 million for initiatives and programs

- Chair a committee that reviews curriculum for 3 degree programs and 6 concentrations in biology enrolling more than 3600 students on campus and more than 1800 students enrolled in ASU Online

2014- **Associate Director for Undergraduate Programs, School of Life Sciences, ASU**

- present
- Supervised a staff of more than 30 employees, including assistant directors, managers, academic advisors, lab coordinators, lecturers, academic professionals, and technology specialists
 - Supervised the management of an operating budget exceeding \$2 million for initiatives and programs
 - chair a committee that reviews curriculum for 3 degree programs and 6 concentrations in biology enrolling more than 3600 students on campus and more than 1800 students enrolled in ASU Online.
 - Oversaw the scheduling of courses for ≈100 instructors
 - Hire and evaluate academic professionals, lecturers, and instructors
 - Collaborated with staff in Graduate Programs to allocate teaching assistants to courses
 - Oversaw endowed scholarships, outstanding student awards, and faculty teaching awards
 - Resolved conflicts between students and faculty resulting from academic dishonesty or unfair treatment
 - Evaluated requests for a late withdrawal, an incomplete grade, or a grade change
 - Supervised development, implementation, and assessment of learning objectives for a core curriculum called the BioSpine, based on AAAS's Vision and Change for science education in the 21st century
 - Coordinated student and peer evaluations of teaching; summarize teaching performance of candidates for tenure and promotion
 - Served on the Executive Committee of the School of Life Sciences and meet with the Director of Life Sciences regularly to address issues related to undergraduate programs
 - Liaised with staff in the College of Liberal Arts & Sciences, the Office of the Provost, and ASU's EdPlus in matters related to undergraduate education
 - Developed learning goals and standardized assessments for degree program and core courses
 - Developed policies for teaching and grading in courses offered by the school
 - Collaborated with companies such as *CogBooks*, *Labster*, and *Google* to develop online resources for biology education

2012- **Assistant Director of Undergraduate Programs, School of Life Sciences, ASU**

- 2014
- Oversaw scheduling of courses for ≈100 instructors in the School of Life Sciences
 - Hired and evaluated faculty associates and other non-tenure track instructors
 - Assisted and advised the Associate Director on matters related to undergraduate education

2012 **Interim Graduate Director of Biological Sciences, SOLS, ASU**

- Oversaw recruitment and admissions to BS and PhD programs
- Monitored progress of students toward degrees
- Served on the Graduate Programs Committee
- Collaborated with the Associate Director and staff to resolve issues related to graduate education

HONORS & AWARDS

- 2019 Appointed to the rank of President's Professor (only 36 appointed since 2006)
ASU Leadership Academy (2019-2020)
- 2017 Nominated for Founder's Day Professor, Arizona State University
- 2016 Lincoln Fellow, Lincoln Center for Applied Bioethics (2016-2017)
- 2014 ASU's Funniest Teacher, Project Humanities, Arizona State University
Ellerman Fellow, Stellenbosch University, South Africa
- 2013 European Union Visiting Lecturer, Jagiellonian University
- 2011 Distinguished visiting speaker, Californian State University at Northridge
- 2010 Marsh Book-of-the-Year Award, British Ecological Society
- 2009 Faculty of 1000 in Biology, Physiological Ecology Section (2009-2012)
Theodore Dreiser Distinguished Research Award, Indiana State University
- 2007 Visiting Scholar Fellowship, University of Queensland
- 2006 Promising Scholar Award, Indiana State University
- 1998 Gaige Award, American Society of Ichthyologists and Herpetologists
- 1997 NSF Graduate Research Trainee
- 1994 NSF Graduate Fellowship, Honorable Mention

- 1992 Best Paper Award, New Jersey Academy of Science
Bristol-Myers Squibb Senior Achievement Award in Biology
Beta Beta Beta Biological Honor Society
Honor Society of Phi Kappa Phi
- 1991 Colgate-Palmolive Junior Achievement Award in Biology
Hermia T. Lechner Scholarship Award for Natural Resources
Trenton State College International Education Scholarship
- 1988 Garden State Distinguished Scholar (1988-1992)

TEACHING EXPERIENCE

- 2013-2017 **International Advanced Course: Thermal Adaptation**
A graduate course for students of ecology and evolution with an interest in thermal biology or adaptation to environmental change.
Charles University, Prague (31 March – 2 April, 2017)
University of Porto, Portugal (29 November – 2 December, 2016)
Jagiellonian University, Krakow (27 May – 31 May, 2013)
- 2014-present **Online Course Development, Arizona State University, Tempe**
Developed learning objectives, videos, readings, activities, labs, and assessments for online courses and flipped classrooms. Developing labs exercise for virtual-reality environment in collaboration with *Google* and *Labster*.
 - BIO 181: General Biology I
 - BIO 182: General Biology II
 - BIO 320: Fundamentals of Ecology
 - BIO 321: Ecology Lab
 - BIO 432: Why People Steal, Cheat, and Lie
- 2010-present **Arizona State University, Tempe**
 - BIO 182: General Biology II
 - BIO 282: Conceptual Approaches to the Life Sciences
 - BIO 189: Life Sciences Career Paths
 - BIO 432: Why People Steal, Cheat, and Lie
 - BIO 494/594: Physiological Ecology of Animals
 - BIO 591: Evolutionary Physiology
- 2000-2010 **Indiana State University, Terre Haute**
 - BIO 101/101L: Principles of Biology (lecture and labs)
 - BIO 231/231L: Human Anatomy & Physiology (lecture and labs)
 - BIO 480/580: General Evolution (undergraduate/graduate)
 - BIO 490/690: Life Science Seminar (undergraduate/graduate)
 - BIO 640: Seminar Presentation (graduate)
 - BIO 650: Ecology Seminar–Theory of Evolutionary Games
 - BIO 691: Advanced Evolution (graduate)
 - BIO 691: Life-History Evolution (graduate)
 - BIO 691: Evolutionary Physiology (graduate)
 - BIO 691: Adaptation to Climate Change (graduate)
 - BIO 691: Design and Analysis of Experiments (graduate)

- 1999-2000 **Lecturer, University of Pennsylvania, Philadelphia**
 BIOL 102: Introductory Biology B
 BIOL 240: Ecology and Population Biology
 BIOL 215: Vertebrate Physiology
- 1993-1998 **Graduate Teaching Fellow, University of Pennsylvania, Philadelphia**
 BIOL 101: Introductory Biology A
 BIOL 102: Introductory Biology B
 BIOL 215: Vertebrate Physiology
 BIOL 230: Evolutionary Biology
 BIOL 412: Ecology of Individuals and Populations (graduate)
- 1996 **Workshop Leader, University of Pennsylvania, Philadelphia**
 Teaching Recitations in Math and Science
- 1992-1993 **Teaching Assistant, Rutgers University, New Brunswick**
 BIO 101: Introductory Biology I
 BIO 102: Introductory Biology II

PUBLICATIONS

Google Scholar Stats: h-index = 44; i-10 index = 92; citations = 12,353 (since 2016 = 6651)

2021

113. Westfall, A. K. Westfall, R. S. Telemeco; M. B. Grizante, D. S. Waits; A. D. Clark, D. Y. Simpson, R. L. Klabacka, A. P. Sullivan, G. H. Perry, C. L. Cox, R. M. Cox, M. E. Gifford; H. B. John-Alder, M. W. Sears, M. J. Angilletta, M. Tollis; A. D. Leaché, T. Langkilde; K. Kusumi; T. S. Schwartz. 2021. A chromosome-level genome assembly for the eastern fence lizard (*Sceloporus undulatus*), a reptile model for physiological and evolutionary ecology. *GigaScience* 10: in press.

2020

113. Cloutier, S. A., M. J. Angilletta, J.-D. Mathias, and N. C. Onat. 2020. Informing the sustainable pursuit of happiness. *Sustainability* 12: 9491.
112. Youngblood, J. P., J. M. VandenBrooks, O. Babarinde, M. E. Donnay, D. B. Elliott, J. Fredette-Roman, and M. J. Angilletta, and J. M. VandenBrooks. 2020. Oxygen supply limits the heat tolerance of locusts during the first instar only. *Journal of Insect Physiology* 127: 104157.
111. Graham, Z. A., D. J. Padilla, and M. J. Angilletta. 2020. Claw size predicts dominance within and between invasive species of crayfish. *Animal Behaviour* 166: 153-161.
110. Graham, Z. A., D. Padilla, and M. J. Angilletta. 2020. Virile crayfish escalate aggression according to body size instead of weapon size. *Animal Behaviour* 163: 9-15.

2019

109. Vimmerstedt, J., M. J. Angilletta, J. M. VandenBrooks. 2019. Oxygen supply limits the heat tolerance of avian embryos. *Biology Letters* 15: 20190566.
108. Youngblood, J. P., C. R. B. da Silva, M. J. Angilletta, and J. M. VandenBrooks. 2019. Oxygen limitation does not drive the decreasing heat tolerance of grasshoppers during development. *Physiological and Biochemical Zoology* 92: 567-572.
107. Angilletta, M. J., R. S. Wilson, and G. Kubitz. Self-deception in non-human animals: weak crayfish escalated aggression as if they were strong. *Behavioral Ecology* 30:1469-1476.
106. Angilletta, M. J., C. Condon, and J. P. Youngblood. 2019. Thermal acclimation of flies from three populations of *Drosophila melanogaster* fails to support the seasonality hypothesis. *Journal of Thermal Biology* 81: 25-32.
105. Angilletta, M. J., M. W. Sears, J. M. VandenBrooks. 2019. Fundamental flaws with the fundamental niche. *Integrative and Comparative Biology* 59: 1038–1048.
104. Angilletta, M. J., J. P. Youngblood, L. K. Neal, J. M. VandenBrooks. 2019. The neuroscience of adaptive thermoregulation. *Neuroscience Letters* 692: 127-136.
103. Sears, M. W., E. A. Riddell, and M. J. Angilletta. 2019. The world still is not flat: lessons learned from organismal interactions with environmental heterogeneity in terrestrial environments. *Integrative and Comparative Biology* 59: 1049-1058
102. White, C. R., D. J. Marshall, L. A. Alton, P. A. Arnold, J. E. Beaman, C. L. Bywater, C. Condon, T. S. Crispin, A. Janetzki, H. S. Winwood Smith, M. J. Angilletta, S. F. Chenoweth, C. E. Franklin, L. G. Halsey, M. R. Kearney, S. J. Portugal, and D. Ortiz-Barrientos. 2019. The origin and maintenance of metabolic allometry in animals. *Nature Ecology & Evolution* 3: 598–603.

2018

101. Camacho Guerrero, A., J. M. VandenBrooks, A. Riley, R. S. Telemeco, and M. J. Angilletta. 2018. Oxygen supply did not affect how lizards perceived thermal stress. *Integrative Zoology* 13: 428-436.
100. Camacho Guerrero, A., T. Rusch, G. Ray, R. S. Telemeco, M. Rodrigues, and M. J. Angilletta. 2018. Measuring behavioral thermal tolerance to address hot topics in ecology, evolution, and conservation. *Journal of Thermal Biology* 73: 71-79.
99. Hunter, A. H, M. J. Angilletta, T. Pavlic, G. Lichtwarke, and R. S. Wilson. 2018. Modeling the two-dimensional accuracy of soccer kicks. *Journal of Biomechanics* 72: 159-166
98. Hunter, A. H, M. J. Angilletta, and R. S. Wilson. Behaviours of shooter and goalkeeper interact to determine the outcome of soccer penalties. *Scandinavian Journal of Medicine and Science in Sports* 28: 2751–2759.
97. Hunter, A. H., S. Murphy, M. J. Angilletta, and R. S. Wilson. 2018. Anticipating the direction of soccer penalty shots depends on the speed and technique of the kicks. *Sports* 6: 73. DOI: 10.3390/sports6030073

96. Rusch, T. W., M. W. Sears, and M. J. Angilletta. 2018. Lizards perceived abiotic and biotic stresses independently when competing for shade in terrestrial mesocosms. *Hormones and Behavior* 106: 44-51.

2017

95. Alton, L. A., C. Condon, C. R. White, and M. J. Angilletta. 2017. Colder environments did not select for a faster metabolism during experimental evolution of *Drosophila melanogaster*. *Evolution* 71: 145-152.
94. Angilletta, M. J. Thermal Ecology of Animals. 2017. Oxford Bibliographies in Physiological Ecology of Animals. Ed. M. J. Angilletta. New York: Oxford University Press. www.oxfordbibliographies.com.
93. Basson, C.H., O. Levy, M. J. Angilletta, and Susana Clusella-Trullas. 2017. Lizards paid a greater opportunity cost to thermoregulate in a less heterogeneous environment. *Functional Ecology* 31:856-865.
92. Grizante, M. B., M. A. Tollis, J. J. Rodriguez, O. Levy, M. J. Angilletta, and K. Kusumi. 2018. De novo assembly and annotation of the eastern fence lizard (*Sceloporus undulatus*) transcriptome. *bioRxiv*. <http://biorxiv.org/content/early/2017/05/10/136069>
91. Levy, O., J D. Borchert, T. Rusch, L. B. Buckley, and M. J. Angilletta. 2017. Diminishing returns on thermoregulation limit energetic costs of climate change. *Ecology* 98: 1217-1228.
90. Rusch, T. W. and M. J. Angilletta. 2017. Lizards perceived abiotic and biotic stressors independently when competing for shade in terrestrial mesocosms. *Functional Ecology* 31: 1519-1528.
89. Shieh-zadegan, S., J. Le Vinh Thuy, N. Derus, M. J. Angilletta, and J. M. Vandenbrooks. 2017. More oxygen during development enhanced flight performance but not thermal tolerance of *Drosophila melanogaster*. *PLoS ONE* 12: e0177827.
88. Smith, G. D., L. A. Neuman-Lee, A. C. Webb, M. J. Angilletta, D. F. DeNardo, and S. S. French. 2017. Metabolic responses to different immune challenges and varying resource availability in the side-blotched lizard (*Uta stansburiana*). *Journal of Comparative Physiology B* 187: 1173–1182.
87. Teague, C., J. Youngblood, K. Ragan, M. J. Angilletta, and J. M. VandenBrooks. 2017. A positive genetic correlation between heat tolerance and hypoxia tolerance in *Drosophila melanogaster*. *Biology Letters* 13: 20170309.
86. Telemeco, R., B. Fletcher, O. Levy, A. Riley, Y. Rodriguez-Sanchez, C. D. Smith, C. Teague, A. Waters, M. J. Angilletta, and L. B. Buckley. 2017. Lizards fail to plastically adjust nesting behavior or thermal tolerance as needed to buffer populations from climate change. *Global Change Biology* 23: 1075-1084.
85. Wilson, R. S., G. David, S. C. Murphy, A. C. Niehaus, M. J. Angilletta, A. Hunter, and M. D. Smith. 2017. Skill not athleticism predicts individual variation in match performance of soccer players. *Proceedings of the Royal Society B* 284: 20170953.

2016

84. Adrian, G. J., M. Czarnoleski, and M. J. Angilletta. 2016. Flies evolved small bodies and cells at high or fluctuating temperatures. *Ecology and Evolution* 6: 7991–7996.
83. Le Vinh Thuy, J., J. M. VandenBrooks, and M. J. Angilletta. 2016. Developmental plasticity evolved according to specialist-generalist tradeoffs in experimental populations of *Drosophila melanogaster*. *Biology Letters* 12: 20160379.
82. Levy, O., L. B. Buckley, T. H. Keitt, and M. J. Angilletta. 2016. A dynamically downscaled projection of past and future microclimates. *Ecology* 97:1888.
81. Levy, O., L. B. Buckley, T. H. Keitt, and M. J. Angilletta. 2016. Ontogeny constrains phenology: thermal tolerances of embryos and thermal opportunities for reproduction dictate potential phenologies of lizards. *Ecology Letters* 19: 620-628.
80. Sears, M. W., M. J. Angilletta, M. S. Schuler, J. D. Borchert, K. F. Dilliplane, M. Stegman, T. W. Rusch, and W. A. Mitchell. 2016. Configuration of the thermal landscape determines thermoregulatory performance of ectotherms. *Proceedings of the National Academy of Science USA*. 113:10595–10600.

2015

79. Ackley, J., J. Wu, M. J. Angilletta, S. Myint, and B. Sullivan. 2015. Rich lizards: how affluence and land cover influence the diversity and abundance of native lizards persisting in an urban landscape. *Biological Conservation* 186: 87-92.
78. Ackley, J., J. Wu, M. J. Angilletta, D. DeNardo, S. Myint, and B. Sullivan. 2015. Urban heat-island mitigation strategies and lizard thermal ecology: Landscaping can quadruple potential activity time in an arid city. *Urban Ecosystems* 18: 1447-1459.
77. Buckley, L. B., J. C. Ehrenberger, and M. J. Angilletta. 2015. Thermoregulatory behavior limits local adaptation of thermal niches and confers sensitivity to climate change. *Functional Ecology* 29: 1038-1047.
76. Condon, C., A. Acharya, G. J. Adrian, A. M. Hurliman, D. Malekooti, P. Nguyen, M. H. Zelic, and M. J. Angilletta. 2015. Indirect selection of thermal tolerance during experimental evolution of *Drosophila melanogaster*. *Ecology and Evolution* 5: 1873-1880.
75. Czarnoleski, M., D. Dragosz-Kluska, and M. J. Angilletta. 2015. Flies developed smaller cells when temperature fluctuated more frequently. *Journal of Thermal Biology* 54: 106-110.
74. Czarnoleski, M., J. Ejsmont-Karabin, M. J. Angilletta, and J. Kozłowski. 2015. Colder rotifers grow larger but only in oxygenated waters. *Ecosphere* 6: 164.
73. James, R. S., J. Tallis, and M. J. Angilletta. 2015. Regional thermal specialisation in a mammal: temperature affects power output of core muscle more than that of peripheral muscle in adult mice (*Mus musculus*). *Journal of Comparative Physiology* 185:135-142.

72. Levy, O., L. B. Buckley, T. H. Keitt, C. D. Smith, K. Boateng, D. Kumar, and M. J. Angilletta. 2015. Resolving the life cycle alters expected impacts of climate change. *Proceedings of the Royal Society B* 282: 20150837.
71. Murphy, S.C., W. von Hippel, S. L. Dubbs, M. J. Angilletta, R. S. Wilson, R. Trivers, and F. K. Barlow. 2015. The role of overconfidence in romantic desirability and competition. *Personality and Social Psychology Bulletin* 41: 1036-1052.
70. Sears, M. W. and M. J. Angilletta. 2015. Costs and benefits of thermoregulation revisited: statistical and spatial distributions of temperature drive energetic costs. *The American Naturalist* 185: E94-E102.
69. **Smith, C. D.**, R. Telemeco, J. VandenBrooks, and M. J. Angilletta. 2015. Oxygen supply limits the heat tolerance of lizard embryos. *Biology Letters* 11: 20150113.
68. Wheatley, R., M. J. Angilletta, A. C. Niehaus, and R. S. Wilson. 2015. How fast should an animal run? An optimality model based on the trade-off between speed and accuracy. *Integrative and Comparative Biology* 55: 1166-1175.
67. Wilson, R. S. and M. J. Angilletta. 2015. Dishonest signaling during aggressive encounters. Pp. 205-228 in *Animal Signalling: A Functional Approach*. (D. J. Irschick, M. Briffa, and J. Podos, eds.). Ralph Wiley Press.

2014

66. Angilletta, M. J. 2014. Biochemical and Physiological Adaptations. Pp. 282-287 in *The Princeton Guide to Evolution* (J. Losos, ed.). Princeton University Press, Princeton.
65. Bakken, G. S. and M. J. Angilletta. 2014. How to avoid errors when quantifying thermal environments. *Functional Ecology* 13: 96-107.
64. Heffernan, J. B., P. Soranno, M. J. Angilletta, L. B. Buckley, W. K. Dodds, D. Gruner, T. Keitt, J. Kellner, J. Kominoski, A. Rocha, J. Xiao, T. Harms, S. Goring, L. Koenig, W. McDowell, H. Powell, A. Richardson, C. Stow, R. Vargas, and K. Weathers. 2014. Macrosystems ecology: understanding ecological pattern and process at continental scales. *Frontiers in Ecology and the Environment* 12: 5-14.
63. Kolbe, J. J., J. C. Ehrenberger, and M. J. Angilletta. 2014. Variation in physiological phenotypes among invasive populations of brown anoles (*Anolis sagrei*). *Physiological and Biochemical Zoology* 87: DOI: 10.1086/672157.
62. Condon, C., B. C. Cooper, S. Yeaman, and M. J. Angilletta. 2014. Temporal variation favored the evolution of generalists in experimental populations of *Drosophila melanogaster*. *Evolution* 68: 720-728.

2013

61. Angilletta, M. J., M. H. Zelic, G. J. Adrian, A. M. Hurliman, and C. D. Smith. 2013. Heat tolerance during embryonic development has not diverged among populations of a widespread species (*Sceloporus undulatus*). *Conservation Physiology* 1: DOI: 10.1093/conphys/cot018.
60. Czarnoleski, M., B. S. Cooper, J. Kierat, and M. J. Angilletta. 2013. Flies developed small bodies and small cells at fluctuating temperatures. *Journal of Experimental Biology* 216: 2896-2901.

59. Prates, I., M. J. Angilletta, R. S. Wilson, A. C. Niehaus, C. A. Navas. 2013. Poor hydration reduced the locomotor performance of toads (*Rhinella granulosa*) from mesic and xeric environments. *Physiological and Biochemical Zoology* 86: 451-457.

2012

58. Angilletta, M. J. and R. S. Wilson. 2012. Cryptic asymmetry: unreliable signals mask asymmetric performance of crayfish weapons. *Biology Letters* 8: 551-553.
57. Angilletta, M. J. 2012. Thermoregulation in Animals. *Oxford Bibliographies in Physiological Ecology of Animals*. Ed. M. J. Angilletta. New York: Oxford University Press, 5/23/2012. www.oxfordbibliographies.com.
56. Niehaus, A. C., M. J. Angilletta, M. W. Sears, C. E. Franklin and R. S. Wilson. 2012. Predicting the physiological performance of anurans in fluctuating thermal environments. *Journal of Experimental Biology* 215: 694-701.
55. Cooper, B. C., J. M. Tharp, I. I. Jernberg, and M. J. Angilletta. 2012. Developmental plasticity of thermal tolerances in temperate and subtropical populations of *Drosophila melanogaster*. *Journal of Thermal Biology* 37: 211-216.
54. Niehaus, A. C., R. S. Wilson, J. J. Storm and M. J. Angilletta. 2012. Fall field crickets did not acclimate to simulated seasonal changes in temperature. *Journal of Comparative Physiology B* 182: 199-207.
53. Starostová, Z., M. J. Angilletta, L. Kubička, and L. Kratochvíl. 2012. Thermal dependence of reproductive allocation in a tropical lizard. *Journal of Thermal Biology* 37: 159-163.

2011

52. Angilletta, M. J. and M. W. Sears. 2011. Grand Challenges: Coordinating theoretical and empirical efforts to understand the linkages between organisms and environments. *Integrative and Comparative Biology* 51: 653-661.
51. Bozinovic, F., D. A. Bastías, F. E. Boher, S. Clavijo-Baquet, S. A. Estay, and M. J. Angilletta. 2011. The mean and variance of environmental temperature interact to determine physiological tolerance and fitness. *Physiological and Biochemical Zoology* 84: 543-552.
50. Schuler, M. S., Cooper, B. S., Storm, J. J., M. W. Sears, and M. J. Angilletta. 2011. Isopods failed to acclimate their thermal sensitivity of locomotor performance during predictable or stochastic cooling. *PLoS ONE* 6: e20905.
49. Schuler, M. S., M. W. Sears, and M. J. Angilletta. 2011. Food consumption does not affect the preferred body temperature of Yarrow's spiny lizard (*Sceloporus jarrovi*). *Journal of Thermal Biology* 36: 112-115.
48. Sears, M. W., E. Raskin, M. J. Angilletta. 2011. The world is not flat: defining relevant thermal landscapes in the context of climate change. *Integrative and Comparative Biology* 51: 666-675.

2010

47. Angilletta, M. J., B. S. Cooper, M. S. Schuler, and J. G. Boyles. 2010. The evolution of thermal physiology in endotherms. *Frontiers in Bioscience* 15: 861-881.

46. Angilletta, M. J., R. B. Huey, and M. R. Frazier. 2010. Thermodynamic effects on organismal performance: is hotter better? *Physiological and Biochemical Zoology* 83: 197-206.
45. Asbury, D. A. and M. J. Angilletta. 2010. Thermodynamic effects on the evolution of performance curves. *The American Naturalist* 176: E40-E49.
44. Buckley, L. B., M. C. Urban, M. J. Angilletta, L. Crozier, L. J. Rissler, and M. W. Sears. 2010. Can mechanism inform models of species distributions? *Ecology Letters* 13: 1041-1054.
43. Chown, S. L., A. A. Hoffmann, T. N. Kristensen, M. J. Angilletta, N. C. Stenseth and C. Pertoldi. 2010. Adapting to climate change: a perspective from evolutionary physiology. *Climate Research* 43: 3-15.
42. Cooper, B. S., M. Czarnoleski, and M. J. Angilletta. 2010. Acclimation of thermal sensitivity in *Drosophila melanogaster* from high and low latitudes: a test of optimality theory. *Journal of Evolutionary Biology* 23: 2346-2355.
41. Oufiero, C. E. and M. J. Angilletta. 2010. Energetics of lizard embryos at fluctuating temperatures. *Physiological and Biochemical Zoology* 83: 869-876.

2009

40. Angilletta, M. J. 2009. Thermal Adaptation: A Theoretical and Empirical Synthesis. Oxford University Press, Oxford, 304 pp.

[Marsh Book of the Year, British Ecological Society]

39. Angilletta, M. J., R. M. Pringle, and M. W. Sears. 2009. Spatial dynamics of nesting behavior: lizards shift microhabitats to construct nests with beneficial temperatures. *Ecology* 90: 2933-2939.
38. Mitchell, W. A. and M. J. Angilletta. 2009. Thermal games: frequency-dependent models of thermal adaptation. *Functional Ecology* 23: 510-520.

2008

37. Angilletta, M. J., A. Steel, K. Bartz, J. G. Kingsolver, M. Scheuerell, B. Beckman, and L. Crozier. 2008. Big dams and salmon evolution: changes in thermal regimes and their potential evolutionary consequences. *Evolutionary Applications* 1: 286-299.
36. Angilletta, M. J., T. C. Roth, R. S. Wilson, A. C. Niehaus, and P. L. Ribeiro. 2008. The fast and the fractalious: speed and tortuosity trade off in running ants. *Functional Ecology* 22: 78-83.
35. Bywater, C. L., M. J. Angilletta, and R. S. Wilson. 2008. Weapon size is a reliable indicator of strength and social dominance in female slender crayfish (*Cherax dispar*). *Functional Ecology* 22: 311-316.
34. Cooper, B. S., B. H. Williams, and M. J. Angilletta. 2008. Unifying indices of heat tolerance in ectotherms. *Journal of Thermal Biology* 33: 320-323.
33. Niewiarowski, P. H. and M. J. Angilletta. 2008. Countergradient variation in embryonic growth and development: do embryonic and juvenile performances trade off? *Functional Ecology* 22: 895-901.

2007

32. Angilletta, M. J., R. S. Wilson, A. C. Niehaus, M. W. Sears, C. A. Navas, and P. L. Ribeiro. 2007. Urban physiology: city ants possess high heat tolerance. *PLoS ONE* 2: e258.
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30. Storm, M. A. and M. J. Angilletta. 2007. Rapid assimilation of yolk enhances growth and development of lizard embryos from a cold environment. *Journal of Experimental Biology* 210: 3415-3421.
29. Wilson, R. S., M. J. Angilletta, R. S. James, C. A. Navas, and F. Seebacher. 2007. Dishonest signals of strength in male slender crayfish (*Cherax dispar*) during agonistic encounters. *The American Naturalist* 170: 284-291.

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28. Angilletta, M. J. 2006. Estimating and comparing thermal performance curves. *Journal of Thermal Biology* 31: 541-545.
27. Angilletta, M. J., C. E. Oufiero, and A. D. Leaché. 2006. Direct and indirect effects of environmental temperature on the evolution of reproductive strategies: an information-theoretic approach. *The American Naturalist* 168: 123-135.
26. Angilletta, M. J., V. Lee, and A. C. Silva. 2006. Energetics of lizard embryos are not canalized by thermal acclimation. *Physiological and Biochemical Zoology* 79: 573-580.
25. Angilletta, M. J., A. F. Bennett, H. Guderley, C. A. Navas, F. Seebacher, and R. S. Wilson. 2006. Coadaptation: a unifying principle in evolutionary thermal biology. *Physiological and Biochemical Zoology* 79: 282-294.
24. Oufiero, C. E. and M. J. Angilletta. 2006. Convergent evolution of embryonic growth and development in eastern fence lizard (*Sceloporus undulatus*). *Evolution* 60: 1066-1075.

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23. McLean, M. A., M. J. Angilletta, and K. Williams. 2005. If you can't stand the heat, stay out of the city: thermal reaction norms of chitinolytic fungi in an urban heat island. *Journal of Thermal Biology* 30: 384-391.
22. Angilletta, M. J., C. E. Oufiero, and M. W. Sears. 2005. Thermal adaptation of maternal and embryonic phenotypes in a geographically widespread lizard. Pp. 258-266 in S. Morris and A. Vosloo, eds. *Animals and Environments*. Elsevier Press.
21. Angilletta, M. J., T. D. Steury, and M. W. Sears. 2004. Temperature, growth rate, and body size in ectotherms: fitting pieces of a life-history puzzle. *Integrative and Comparative Biology* 44: 498-509.

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20. Angilletta, M. J., P. H. Niewiarowski, A. E. Dunham, A. Leaché, and W. P. Porter. 2004. Bergmann's clines in ectotherms: illustrating a life-historical perspective with sceloporine lizards. *The American Naturalist* 164: E168-E183.
19. Niewiarowski, P. H., M. J. Angilletta, and A. Leaché. 2004. Phylogenetic comparative analysis of life-history variation among populations of the lizard *Sceloporus undulatus*: an example and prognosis. *Evolution* 58: 619-633.
18. Sears, M. W. and M. J. Angilletta. 2004. Body size clines in *Sceloporus* lizards: proximate mechanisms and demographic constraints. *Integrative and Comparative Biology* 44: 433-442.

2003

17. Angilletta, M. J. and A. E. Dunham. 2003. The temperature-size rule in ectotherms: simple evolutionary explanations may not be general. *The American Naturalist* 162: 332-342.
16. Angilletta, M. J. and A. Krochmal. 2003. The Thermochron: a truly miniature and inexpensive temperature-logger. *Herpetological Review* 34: 31-32.
15. Angilletta, M. J. and M. W. Sears. 2003. Is parental care the key to understanding endothermy in birds and mammals? *The American Naturalist* 162: 821-825.
14. Angilletta, M. J., R. S. Wilson, C. A. Navas, and R. S. James. 2003. Tradeoffs and the evolution of thermal reaction norms. *Trends in Ecology and Evolution* 18: 234-240.
13. Sears, M. W. and M. J. Angilletta. 2003. Life-history variation in the sagebrush lizard (*Sceloporus graciosus*): phenotypic plasticity or local adaptation? *Ecology* 84: 1624-1634.

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12. Angilletta, M. J., T. Hill, and M. A. Robson. 2002. Is physiological performance optimized by thermoregulatory behavior? A case study of the eastern fence lizard, *Sceloporus undulatus*. *Journal of Thermal Biology* 27: 203-208.
11. Angilletta, M. J., P. H. Niewiarowski, and C. A. Navas. 2002. The evolution of thermal physiology in ectotherms. *Journal of Thermal Biology* 27: 249-268.

[Most cited paper ever published by the *Journal of Thermal Biology*]

2001

10. Angilletta, M. J. 2001. Thermal and physiological constraints on energy assimilation in a widespread lizard (*Sceloporus undulatus*). *Ecology* 82: 3044-3056.

[Featured in *Ecology* by Manuel Molles, 5th edition]

9. Angilletta, M. J. 2001. Variation in metabolic rate between populations of a geographically widespread lizard. *Physiological and Biochemical Zoology* 74: 11-21.

[Featured in *Writing for Science* by Robert Goldbort, Yale University Press]

8. Angilletta, M. J., M. W. Sears, and R. S. Winters. 2001. Seasonal variation in reproductive effort and its consequences for offspring size in the lizard *Sceloporus undulatus*. *Herpetologica* 57: 365-375.

2000

7. Angilletta, M. J. and M. W. Sears. 2000. The metabolic cost of reproduction in an oviparous lizard. *Functional Ecology* 14: 39-45.
6. Angilletta, M. J., R. S. Winters, and A. E. Dunham. 2000. Thermal effects on the energetics of lizard embryos: implications for hatchling phenotypes. *Ecology* 81: 2957-2968.

1999

5. Angilletta, M. J. 1999. Estimating body composition of lizards from total-body electrical conductivity and total-body water. *Copeia* 1999: 587-595.
4. Angilletta, M. J. 1999. Estimating egg mass in lizards using X-radiography. *Herpetological Review* 30: 155-156.
3. Angilletta, M. J., L. G. Montgomery, and Y. L. Werner. 1999. Temperature preference in geckos: diel variation in juveniles and adults. *Herpetologica* 55: 212-222.

1994-1998

2. Angilletta, M. J. and Y. L. Werner. 1998. Australian geckos do not display diel variation in thermoregulatory behavior. *Copeia* 1998: 736-742.
1. Angilletta, M. J. 1994. Sedentary behavior by green mambas, *Dendroaspis angusticeps*. *Herpetological Natural History* 2: 105-111.

EDITORIALS

- Sears, M. W. and M. J. Angilletta. 2011. Introduction to the Symposium: Responses of organisms to climate change: a synthetic approach to the role of thermal adaptation. *Integrative and Comparative Biology* 51: 662-665.
- Angilletta, M. J. 2009. Looking for answers to question about heat stress: researchers are getting closer. *Functional Ecology* 23: 231-232.
- Angilletta, M. J. and M. W. Sears. 2004. Evolution of thermal reaction norms for growth rate and body size in ectotherms: an introduction to the symposium. *Integrative and Comparative Biology* 44: 401-402.

SELECTED MEDIA COVERAGE

- The university where student loans pay for tuition, books - and a virtual reality headset. *The Washington Post*, 8/27/18 ([link](#))
- Soccer success is all about skill. *Science Daily*, 11/29/17 ([link](#))
- When Dating, Confidence Will Get You Far. *Psychology Today* ([link](#))
- Overconfidence Actually Gets You Dates. *Huffington Post* ([link](#))
- Nice Guys Really Do Finish Last. *Psychology Today* ([link](#))
- For lizards, climate change is a deadly—and complex—threat. *NPR*, 9/5/16 ([link](#))

For lizards roaming a warming world, shade is vital, *Cosmos Magazine*, 9/6/16 ([link](#))
Why climate change could be fatal for lizards, *Christian Science Monitor*, 9/6/16 ([link](#))
Macrosystems ecology: new field looks at the big picture. *Science Daily*, 2/3/14 ([link](#))
For crayfish claws, size isn't everything. *Journal of Experimental Biology*, 9/1/12 ([link](#))
Deception aids crayfish fighters. *Science News* 181(8):15, 4/21/12 ([link](#))
Virtual Hot Spots. *Science* 336: 172-174, 4/13/12 ([link](#))
Hot research. ASU's *Ask-a-Biologist*, ([link](#))
Bluffing crayfish caught in the act. *ABC Science*, 3/14/12 ([link](#))
Size doesn't matter for crayfish's one-two crunch, *Science News*, 3/14/12 ([link](#))
Crayfish fake out attackers with large, weak claws, *Live Science*, 3/13/12 ([link](#))
Daily Planet, Discovery Channel, 3/19/12, ([link](#))
ASU to fans: You won't melt into a black puddle. ESPN Pac-12 Blog, 9/7/11 ([link](#))
Is it cheaper to grow up fast? *Journal of Experimental Biology*, 12/1/10 ([link](#))
The revolutionary lizard. *Santa Fe Institute Bulletin*, Spring 2008 ([link](#))
Urban ants take the heat. *New York Times*, 3/13/07 ([link](#))
Ants adapt quickly to warming. *Discovery Channel*, 3/5/07([link](#))
Urban ants may predict reaction to warming trends. *Wall Street Journal*, 4/27/07 ([link](#))
Hot time in the city, *Natural History*, May 2007 ([link](#))
Faker crayfish: males keep bluffing but don't get caught. *Science News*, 7/ 7/07 ([link](#))
Why do cold animals make bigger babies, *Science Daily*, 10/3/06 ([link](#))

INVITED SEMINARS

2020: University of Pittsburgh; **2018:** California State University at Fresno; Texas A&M University, University of Houston; **2017:** Auburn University, Charles University, Chinese Academy of Sciences, Drexel University, Jagiellonian University; **2016:** University of Porto; **2015:** Clemson University, Yale University; **2014:** Hopkins Marine Station (Stanford University); **2013:** University of Texas at San Marcos; California State University at Long Beach; University of Arizona; Arizona State University, West; **2011:** California State University at Northridge; Sevilleta Field Station (University of New Mexico); University of Western Ontario; **2010:** Arizona State University; Tyson Research Center (Washington University); University of Washington; University of California at Riverside; **2009:** Jagiellonian University; University of Florida; **2008:** Indiana Dept. Natural Resources; Purdue University; University of Wyoming; **2007:** Purdue University; University of Queensland; University of Sydney; **2006:** University of São Paulo; University of Tennessee; **2005:** Washington University; **2004:** Purdue University; University of Nevada, Reno; University of Akron; **2003:** Eastern Illinois University; Indiana University; Ohio University; **2002:** Savannah River Ecology Laboratory; University of São Paulo; **2000:** Indiana State University; **1999:** Stockton College; University of Akron; **1998:** Colby College; Philadelphia Herpetological Society

KEYNOTE OR PLENARY LECTURES

Angilletta, M. J. 2021 (Invited but canceled due to COVID-19). Integrating theories among disciplines to infer the limits of a species range. Keynote lecture at a conference titled Constraints on range limits along environmental gradients. Ascona, Switzerland.

- Angilletta, M. J. 2021 (Invited but canceled due to COVID-19). How physiology informs ecological and evolutionary models of the impacts of climate change. Keynote lecture in the international workshop titled Organism-environment interactions: Climate and Environmental Changes. São Paulo, Brazil.
- Fakhri, M. and M. J. Angilletta. 2018. Expanding access to science education through virtual reality. Keynote presentation at the Google Event for EDUCAUSE. Denver CO.
- Angilletta, M. J. 2016. Conservation physiology: the mechanistic basis of organismal performance and population persistence during environmental stress. Keynote lecture at the Merav Ziv Memorial Symposium at Ben-Gurion University, Israel.
- Angilletta, M. J. 2015. From thermal physiology to macrosystems ecology: building a predictive theory for real world problems. Plenary lecture at the 9th International Congress of Comparative Physiology and Biochemistry: From Molecules to Macrophysiology. Kraków, Poland.
- Angilletta, M. J. 2014. Predicting biological impacts of climate change: the devil is in the details. Keynote lecture at the international workshop titled HETEROCLIM: Role of climatic heterogeneity across spatial and temporal scales in organisms' response to global warming. Loches, France.
- Angilletta, M. J. 2014. The new thermal biology: building a predictive theory for real world problems. Plenary lecture at the 5th International Conference on Thermal Physiology and Pharmacology of Thermoregulation. Kruger National Park, South Africa.
- Angilletta, M. J. 2013. Are Mediterranean lizards safe from climate change? Plenary lecture at the 8th International Symposium on Lacterids of the Mediterranean in Ljubljana, Slovenia.
- Angilletta, M. J. 2011. Plasticity of thermal tolerance: patterns, limits, and consequences. Keynote Speaker for the symposium titled *Physiological plasticity of thermal tolerance*, at the annual meeting of the Society for Experimental Biology. Glasgow, Scotland.
- Angilletta, M. J. 2011. Behavioral responses to climate: linking global warming to local impacts. Keynote Speaker, Annual Banquet of ASU Chapter of Sigma Xi. Phoenix, USA.

INVITED PRESENTATIONS AT SYMPOSIA & WORKSHOPS

- Angilletta, M. J., O. Levy, M. W. Sears, and J. M. VandenBrooks. 2019. The Fundamental Flaws of Fundamental Niche Models. In the symposium titled *The World is Not Flat: Accounting for the Dynamic Nature of the Environment as We Move Beyond Static Experimental Manipulations* at a meeting of the Society for Integrative and Comparative Biology.

- Sears, M. W., E. A. Riddell, and M. J. Angilletta. 2019. Shifting environmental stressors across ontogeny in vertebrate ectotherms. In the symposium titled *The World is Not Flat: Accounting for the Dynamic Nature of the Environment as We Move Beyond Static Experimental Manipulations* at a meeting of the Society for Integrative and Comparative Biology.
- Angilletta, M. J. 2018. The thermal performance curve: mechanisms, applications, and pitfalls for a concept that just turned 40...happy birthday! In the symposium titled *The role of thermal performance curves in physiology, ecology and conservation*, at a meeting of the American Physiological Society in New Orleans, LA.
- Angilletta, M. J. 2017. How biologists model ecological and evolutionary impacts of climate change. In the symposium titled *Biological Buffers to Climate Change*, at a meeting of the International Society of Zoological Sciences in Xining, China.
- Angilletta, M. J., O. Levy, L. B. Buckley, R. S. Telemeco, and T. H. Keitt. 2017. How will climate change affect the evolution of phenotypes? In the symposium titled *Adaptation to Global Climate Change*, at a meeting of the European Society for Evolutionary Biology in Groningen, Netherlands.
- Angilletta, M. J. 2016. From beer cans to intelligent agents: the evolution of an evolutionary theory of thermoregulation. In the symposium titled *A Broad History of Temperature Regulation*, at a meeting of the American Physiological Society in San Diego, California.
- Angilletta, M. J., O. Levy, L. B. Buckley, and T. H. Keitt. 2015. Incorporating physiological variation in mechanistic range models for ecological forecasting. Macrosystems Biology Meeting. National Science Foundation, Washington, D. C.
- Angilletta, M. J. 2013. Symposium Highlights and Closing Remarks. In the NSF-funded symposium titled *Vulnerability of tropical ectotherms to climate warming*. San Juan, Puerto Rico.
- Angilletta, M. J., O. Levy, L. B. Buckley, and T. H. Keitt. 2013. Landscape physiology: linking organismal function to macroecological patterns. In the workshop titled *Biogeography of Stress*, at the annual meeting of International Society of Biogeography in Miami, Florida.
- Buckley, L. B., O. Levy, J. C. Ehrenberger, and M. J. Angilletta. 2013. How do traits and their variation over space and time affect species' response to environmental change? In the symposium titled *Predicting Species and Biodiversity in a Warmer World: Are We Doing a Good Job?* in Miami, Florida.
- Angilletta, M. J., O. Levy, L. B. Buckley, and T. H. Keitt. 2012. Predicting biological responses to climate change with mechanistic models. In the symposium titled *Rethinking Normal: Moving from Theory to Action in the Face of Invasive Species and Global Change*, at the World Congress of Herpetology in Vancouver, Canada.
- Angilletta, M. J. 2012. Ecological and evolutionary responses to thermal change. In the symposium titled *Pacific Salmon: can they rely on plasticity to cope with a rapidly changing world*, at the World Congress of Herpetology in Vancouver, Canada.

- Angilletta, M. J. 2012. Modeling thermal adaptation at local and regional scales. In the workshop titled *Thermal adaptation in ectotherms: linking life history, physiology, behaviour and genetics* in Sitges, Spain.
- Levy, O., Buckley, L. B., T. H. Keitt, and M. J. Angilletta. 2012. Predicting biological responses to climate change with mechanistic models. NSF workshop titled *Macrosystems Biology*. Boulder, Colorado.
- Angilletta, M. J. and M. W. Sears. 2011. The role of evolutionary theory in predicting responses to climate change. In the symposium titled *A synthetic approach to the response of organisms to climate change*, held at a meeting of the Society for Integrative and Comparative Biology. Salt Lake City, Utah.
- Sears, M. W. and M. J. Angilletta. 2011. The world is not flat: defining the thermal landscape...again. In the symposium titled *A synthetic approach to the response of organisms to climate change*, held at a meeting of the Society for Integrative and Comparative Biology. Salt Lake City, Utah.
- Sears, M. W. and M. J. Angilletta. 2010. Adaptation of thermal reaction norms along a latitudinal gradient: implications for the responses of species ranges to climate. In the symposium titled *Does biology matter when predicting how species' distributions will respond to climate change?*, at a meeting of the *Ecological Society of America* in Pittsburgh, Pennsylvania.
- Angilletta, M. J. 2010. The coadaptation of thermoregulatory behavior and thermal physiology in heterogeneous environments. In the symposium titled *Thermal limits and Tradeoffs: Conflicts in Homeostasis*, at a meeting of Canadian Society of Zoologists in Vancouver, Canada.
- Angilletta, M. J. 2009. Adaptive thermoregulation in complex landscapes: bridging the gap between theory and data. In the conference titled *Darwin's Living Legacy: A Conference on Evolution and Society* in Alexandria, Egypt.
- Angilletta, M. J. 2009. Adaptation to thermal change: bridging the gap between theory and data. In the workshop titled *Evolutionary and physiological adaptation to climate-induced environmental changes* in Bialowieza, Poland.
- Angilletta, M. J. and R. S. Wilson. 2007. Clawing your way to the top: variation, repeatability, and benefits of chela strength in slender crayfish. In the symposium titled *Key issues in evolutionary physiology*, held at the 7th International Congress of Comparative Physiology and Biochemistry in Salvador, Brazil.
- Angilletta, M. J. 2006. Phenotypic integration during thermal adaptation: from energetics to life histories. In the Gordon Research Conference on *The Metabolic Basis of Ecology* in Lewiston, Maine.
- Angilletta, M. J. 2006. Evolutionary responses to spatial and temporal variation in temperature. In the symposium titled *Thermal Physiology as a Biogeographic Determinant*, at a meeting of the Ecological Society of America in Memphis, Tennessee.

- Angilletta, M. J., C. E. Oufiero, and M. W. Sears. 2004. Thermal adaptation of maternal and embryonic phenotypes in a geographically widespread lizard. In the symposium titled *Thermal Biology of Reptiles and Amphibians* held at the 3rd International Conference on Comparative Physiology and Biochemistry in Ithala, South Africa.
- Angilletta, M. J., M. W. Sears and T. D. Steury. 2004. Temperature, growth rate, and body size in ectotherms: fitting pieces of a life-history puzzle. In the symposium titled *The Evolution of Thermal Reaction Norms for Growth Rate and Body Size in Ectotherms*, at a meeting of the Society for Integrative and Comparative Biology in New Orleans, Louisiana.
- Sears, M. W. and M. J. Angilletta. 2004. Getting back to nature: ecological influences on patterns of growth and body size in squamate reptiles. In the symposium titled *The Evolution of Thermal Reaction Norms for Growth Rate and Body Size in Ectotherms*, at a meeting of the Society for Integrative and Comparative Biology in New Orleans, Louisiana.

CONTRIBUTED PRESENTATIONS AT CONFERENCES

2020

- Graham, Z., C. Vargas, A. V. Paloro, and M. J. Angilletta. 2020. The Offense and Defense of a Renerated Weapon. *Society for Integrative and Comparative Biology*, Austin, TX.
- Vargas, C., Z. Graham, A. V. Paloro, and M. J. Angilletta. 2020. Sex differences in offensive and defensive investment in crayfish claws. *Society for Integrative and Comparative Biology*, Austin, TX.

2019

- Graham, Z., and M. J. Angilletta. 2019. Claw size, but not claw strength predicts dominance in Virile crayfish. *Animal Behavior Society*, Chicago, IL.
- Graham, Z., C. Vargas, A. V. Paloro, and M. J. Angilletta. 2019) The Offense and Defense of a Renerated Weapon. *Arizona Physiological Society*, Tempe, AZ.
- Graham, Z., C. Vargas, A. V. Paloro, and M. J. Angilletta. 2019. The Offense and Defense of a Renerated Weapon. *BioSci Southwest Symposium*. Tempe, AZ.
- Levy, O., C. Noronha, R. S. Telemeco, and M. J. Angilletta. 2019. Metabolic depression during winter could mitigate impacts of climate change on lizards. *Society for Integrative and Comparative Biology*, Tampa, Florida.
- Neel, L., M. Logan, J. Losos, O. McMillan, C. Cox, and M. J. Angilletta. 2019. Environmental heterogeneity, thermoregulatory strategy, and the effects of climate change on ectotherms across latitude. *Society for Integrative and Comparative Biology*, Tampa, Florida.
- Vargas, C., Z. Graham, A. V. Paloro, and M. J. Angilletta. 2019. Sex differences in offensive and defensive investment in crayfish claws. *BioSci Southwest*

Symposium, Tempe, AZ.

- Vimmerstedt, J. C., J. P. Youngblood, M. J. Angilletta, M. C. Quinlan, A. H. Lee, and J. M. VandenBrooks. 2019. Testing the OCLTT hypothesis in quail embryos by manipulating thyroid hormone. *Society for Integrative and Comparative Biology*, Tampa, Florida.
- Youngblood JP, Harrison JF, Angilletta MJ, Talal S, Cease AJ. Outbreking locusts thermoregulate to maximize digestive performance. Arizona Physiological Society Annual Meeting. Tempe, AZ.
- Youngblood JP, Harrison JF, Angilletta MJ, Talal S, Cease AJ. Outbreking locusts thermoregulate to maximize digestive performance. 10th International Congress of Comparative Physiology and Biochemistry. Ottawa, ON, Canada.
- Youngblood, J. P., J. M. VandenBrooks, and M. J. Angilletta. 2019. Dynamics of heat tolerance during development of locusts. *Society for Integrative and Comparative Biology*, Tampa, Florida.

2018

- Youngblood, J. P., J. M. VandenBrooks, and M. J. Angilletta. 2018. Stage-specific oxygen limitation of thermal tolerance in *Schistocerca cancellata*. *American Physiological Society*, New Orleans, Louisiana.
- VandenBrooks, J. M., J. P. Youngblood, J. Vimmerstedt, and M. J. Angilletta. 2018. Oxygen limitation of thermal tolerance depends on the life stage and behavior of terrestrial organisms. *American Physiological Society*, New Orleans, Louisiana.

2017

- Hunter, A. H., M. J. Angilletta, T. Pavlic, and R. S. Wilson. Soccer Penalties: Optimising strategies between competing agents. *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.
- Hunter, A. H., M. J. Angilletta, T. Pavlic, and R. S. Wilson. Applying optimal performance theory to the soccer penalty: identifying the best strategies for success. *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.
- Rusch, T. W. and M. J. Angilletta. Locomotor capacity and social context under perceived predation threat in male lizards. *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.
- Rusch, T. W. and M. J. Angilletta. Competition for Thermal Resources between Male Lizards Altered Thermoregulatory Behavior and Hormone Levels. *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.
- Smith, G. D.; A. M. Durso, M. J. Angilletta, D. F. DeNardo, S. French. Assessing the protein and metabolic costs of a trade-off between reproduction and immunity. *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.
- VandenBrooks, J. M., **J. Le Vin Thuy**, **S. Shiehzadegan**, A. Camacho, R. Telemeco, **C. Smith**, and M. J. Angilletta. Can we differentiate between the effects of hypoxia and high temperature on animal behavior and physiology? *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.

2016

- Borchert, J. D. and M. J. Angilletta. The effects of temperature and density on the fitness and behavioral choices of flies. *Society for Integrative and Comparative Biology*, Portland, Oregon.
- Rusch, T., M. W. Sears, and M. J. Angilletta. Beyond lethality: costs of varying thermal resources under the perceived risk of predation. *Society for Integrative and Comparative Biology*, Portland, Oregon.
- Smith, G. D., L. A. Neuman-Lee, A. C. Webb, D. F. DeNardo, M. J. Angilletta, and S. S. French. Lizards downregulate their metabolism in response to an immune challenge: implications for energy status. *Society for Integrative and Comparative Biology*, Portland, Oregon.
- Sears, M. W., M. J. Angilletta, E. Apanovitch, M. Carlo, O. Levy, E. Riddell, and T. Rusch. The influence of thermal heterogeneity on species interactions. *Society for Integrative and Comparative Biology*, Portland, Oregon.
- Szabla, N., A. M. Labecka, K. Pawlik, O. Levy, M. J. Angilletta Jr., and M. Czarnoleski. Body size and cell size in the North American fence lizard – geographic patterns in climate, phylogeny, body size and erythrocytes size. *Society for Experimental Biology*. Brighton, United Kingdom.
- Telemeco, R. S., **C. D. Smith**, M. J. Angilletta, and L. B. Buckley. Lizards failed to adaptively adjust nesting in response to thermal stress *Society for Integrative and Comparative Biology*, Portland, Oregon.

2015

- Czarnoleski, M., A. M. Labecka, N. Derus, K. Pawlik, M. J. Angilletta. 2015. Longitudinal and latitudinal size variation of erythrocytes in the North American lizard *Sceloporus undulatus*. *International Congress of Comparative Physiology and Biochemistry*, Kraków, Poland.
- Levy, O. L. B. Buckley, T. H. Keitt, and M. J. Angilletta. 2015 From extreme events to population dynamics: how environmental tolerances affect biological predictions. *Society for Integrative and Comparative Biology*, West Palm Beach, Florida.
- Starostova, Z., M. J. Angilletta, L. Kubička, and L. Kratochvíl. 2015. Thermal dependence of developmental rate and energy use by embryonic geckos (*Paroedura picta*). *International Congress of Comparative Physiology and Biochemistry*, Kraków, Poland.
- Telemeco, R., **C. D. Smith**, M. J. Angilletta, and J. Vanden Brooks. 2015. Hypoxia reduces the lethal thermal limit of lizard embryos: empirical support for the oxygen-limited thermal tolerance hypothesis. *Society for Integrative and Comparative Biology*, West Palm Beach, Florida.
- Wheatley, R., C. Brown, M. J. Angilletta, A. C. Niehaus, and R. S. Wilson. 2015. Optimising performance by balancing trade-offs between speed and accuracy. *Society for Integrative and Comparative Biology*, West Palm Beach, Florida.

2014

- Ackley, J., Wu, J., Angilletta, M. J., Myint, S. and B. Sullivan. 2014. Rich lizards: how socioeconomic status, cars, and land cover influence the diversity and abundance of desert reptiles persisting in Phoenix, AZ. *International Association for Landscape Ecology*, Little Rock, Arkansas.
- Alton, L. A., C. H. Condon, C. R. White and M. J. Angilletta. No evidence of metabolic cold adaptation in *Drosophila melanogaster*. *Society for Experimental Biology*, Manchester, England.
- Borchert, J. and M. J. Angilletta. 2014. The games that flies play: laying eggs based on temperature and competition. *Society for Integrative and Comparative Biology*, Austin, Texas.
- Borchert, J. and M. J. Angilletta. 2014. The games that flies play: effects of temperatures and density during development on the fitness of *Drosophila melanogaster*. *Society for Integrative and Comparative Biology*, Austin, Texas.
- Czarnoleski, M. and M. J. Angilletta. 2014. Flies develop smaller cells in thermally fluctuating environments: is this adaptive? *Society for Experimental Biology*, Manchester, England.
- Levy, O., **C. D. Smith, K. Boateng, D. Kumar**, and M. J. Angilletta. 2014. Pre-heating to sublethal temperature did not improve thermal limits of lizard embryos. *Society for Integrative and Comparative Biology*, Austin, Texas.
- Levy, O., L. B. Buckley, T. H. Keitt, and M. J. Angilletta. 2014. Bringing regional projections of climate and landscape to the organismal level. *Society for Integrative and Comparative Biology*, Austin, Texas.
- Bakken, G. S., A. Krochmal, and M. J. Angilletta. 2014. Avoiding errors when measuring operative temperature. *Society for Integrative and Comparative Biology*, Austin, Texas.
- Rusch, T. W., M. W. Sears, G. F. Ray, **T. L. Merlino**, and M. J. Angilletta. Beyond lethality: use of thermal resources under the perceived risk of predation. *Society for Integrative and Comparative Biology*, Austin, Texas.
- Sears, M. W., O. Levy, and M. J. Angilletta. Fractal dimension of landscape features drives activity of terrestrial ectotherms. *Society for Integrative and Comparative Biology*, Austin, Texas.

2013

- Borchert, J. and M. J. Angilletta. 2013. The younger games: flies compete for oviposition sites that benefit their young. *Society for the Study of Evolution*, Salt Lake City, Utah.
- Ackley, J. W., B. Sullivan, M. J. Angilletta, S. Myint, D. DeNardo. 2013. Heat islands, backyard landscaping, and the thermal ecology of urban lizards. *Ecological Society of America*, Minneapolis, MN.
- Wright, C.D., B. Vamali, K. Remington, V. Stout, M. J. Angilletta, C. Bang, and M. Orchinik. 2013. An innovative, conceptually themed introductory majors biology course at a large, diverse university. 10th Annual Biology Leadership Conference, Marana, AZ.

- Angilletta, M. J., O. Levy, **C. D. Smith, M. Zelic, G. Adrian, D. Kilby, A. Hurliman, J. Borchert**, and L. B. Buckley. 2013. Heat tolerance of embryos limits the geographic range of *Sceloporus undulatus*. *Society for Integrative and Comparative Biology*, San Francisco, California.
- Borchert, J. and M. J. Angilletta. 2013. The younger games: flies compete for oviposition sites that benefit their young. *Society for Integrative and Comparative Biology*, San Francisco, California.
- Condon, C., B. C. Cooper, S. Yeaman, and M. J. Angilletta. 2013. Evolution of thermal plasticity in changing environments. *Society for Integrative and Comparative Biology*, San Francisco, California.
- Levy, O., L. B. Buckley, T. H. Keitt, and M. J. Angilletta. 2013. Modeling the costs of thermoregulation in lizards: the interplay between competition, climate and vegetation cover in *Sceloporus undulatus*. *Society for Integrative and Comparative Biology*, San Francisco, California.
- Rusch, T., M. W. Sears, and M. J. Angilletta. 2013. Competition for thermal resources between males in complex landscapes. *Society for Integrative and Comparative Biology*, San Francisco, California.

2012

- Levy, O., L. B. Buckley, T. H. Keitt, and M. J. Angilletta. 2012. Predicting dynamics of a species' range with an individual-based model. *Ecological Society of America*, Portland, Oregon.
- Starostova, Z., M. J. Angilletta, L. Kubička, and L. Kratochvíl. 2012. Thermal dependence of developmental rate and energy use by embryonic geckos (*Paroedura picta*). *Society for Experimental Biology*, Salzburg, Austria.
- Condon C. H., B. S. Cooper, S. Yeaman, and M. J. Angilletta. 2012. Evolution of thermal acclimation in constant and heterogeneous environments. *Society for Integrative and Comparative Biology*, Charleston, SC.
- Borchert, J. D., T. Rusch, and M. J. Angilletta. 2012. Variation in assimilation rate among populations of *Sceloporus* lizards at constant and fluctuating temperatures. *Society for Integrative and Comparative Biology*, Charleston, SC.
- Sears, M. W. and M. J. Angilletta, and L. B. Buckley. 2012. Responses of species to climate change: the role of thermal adaptation of thermal reaction norms. *Society for Integrative and Comparative Biology*, Charleston, SC.

2011

- James, R. S., J. Tallis, M. J. Angilletta, A. Herrell, and C. Bonneaud. 2011. Is thermal sensitivity of skeletal muscle performance lower in ectotherms than endotherms? *Society for Experimental Biology*, Glasgow, Scotland.
- Starostova, Z., M. J. Angilletta, L. Kubička, and L. Kratochvíl. 2011. Temperature influences energy allocation to reproduction in a tropical gecko, *Paroedura picta*. *Society for Experimental Biology*, Glasgow, Scotland.

2010

Cooper, B. S., M. Czarnoleski, and M. J. Angilletta. 2010. Acclimation of thermal sensitivity in *Drosophila melanogaster* from high and low latitudes. *Society for Integrative and Comparative Biology*, Salt Lake City, UT.

Tharp, J. M., I. I. Jernberg, B. S. Cooper, and M. J. Angilletta. 2010. Turning up the heat: using thermal extremes to test an optimality model of developmental acclimation. *Society for Integrative and Comparative Biology*, Salt Lake City, Utah.

2009

Schuler, M. S., J. J. Storm, M. W. Sears, B. S. Cooper, and **B. H. Williams**, and M. J. Angilletta. 2009. Acclimation of thermal physiology in predictable and stochastic environments: a test of optimality theory. *Society for Integrative and Comparative Biology*, Boston, Massachusetts.

Angilletta, M. J., M. W. Sears, M. S. Schuler, T. W. Rusch, and W. A. Mitchell. 2009. Testing models of behavioral thermoregulation in a spatially-explicit context: a large-scale field experiment. *Society for Integrative and Comparative Biology*, Boston, Massachusetts.

2008

Logan, M., M. W. Sears, and M. J. Angilletta. 2008. Being a mom isn't always so hot: the effects of reproductive status on thermoregulatory behavior in squamate reptiles. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Wilson, R. S., C. Bywater, M. J. Angilletta, R. S. James, C. A. Navas, and F. Seebacher. 2008. Honest and dishonest signals of strength in Australian slender crayfish (*Cherax dispar*): are males liars and cheaters? *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Angilletta, M. J. and R. S. Wilson. 2008. Clawing your way to the top: variation, repeatability and social benefits of chela strength in slender crayfish. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Sears, M. W. and M. J. Angilletta. 2008. Evaluating the costs of thermoregulation: simulating animal movements through spatially-structured environments define cost curves for small lizards. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Niehaus, A. C., M. J. Angilletta, C. E. Franklin, and R. S. Wilson. 2008. Growing up in an unstable environment: Consequences of diel thermal variation to developing anurans. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Cooper, B. S., **B. H. Williams**, and M. J. Angilletta. 2008. Life in the big city: thermal tolerances of isopods in an urban heat island. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Cooper, B. S., **B. H. Williams**, and M. J. Angilletta. 2008. Unifying indices of heat tolerance in ectotherms. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

Ehrenberger, J. C., L. B. Buckley, and M. J. Angilletta. 2008. How does knowledge of intraspecific variation improve our ability to predict geographic distributions? A case study of the eastern fence lizard, *Sceloporus undulatus*. *Society for Integrative and Comparative Biology*, San Antonio, Texas.

2005

Blake, M. A. and M. J. Angilletta. 2005. Growth of the German cockroach at fixed and fluctuating temperatures. *Society for Integrative and Comparative Biology*, San Diego, California.

Oufiero C. M. and M. J. Angilletta. 2005. Parallel evolution of growth and development in a geographically widespread ectotherm. *Society for Integrative and Comparative Biology*, San Diego, California.

Sears, M. W., G. S. Bakken, M. J. Angilletta, and L. Fitzgerald. 2005. Using artificial neural networks to model the operative temperatures of small animals in a spatially-explicit context. *Society for Integrative and Comparative Biology*, San Diego, California.

Angilletta, M. J., P. H. Niewiarowski, A. E. Dunham, A. Leaché, and W. P. Porter. 2005. Bergmann's clines in ectotherms: illustrating a life-historical perspective with sceloporine lizards. *Society for Integrative and Comparative Biology*, San Diego, California.

2004

Niewiarowski, P. H., M. J. Angilletta, and A. Leaché. 2004. Intraspecific phylogenetic comparative analysis of life history variation. *Society for the Study of Evolution*, Fort Collins, Colorado.

Oufiero, C. and M. J. Angilletta. 2004. It's not the size, it's what's inside that counts: female size, egg size, and egg composition in the lizard *Sceloporus undulatus*. *Society for Integrative and Comparative Biology*, New Orleans, Louisiana.

2003

Angilletta, M. J., M. W. Sears, and **R. M. Pringle**. 2003. Thermal requirements of offspring drive the nesting behavior of lizards. *Indiana Academy of Sciences*, Indianapolis, Indiana.

Angilletta, M. J. and A. E. Dunham. 2003. The temperature-size rule in ectotherms: simple evolutionary explanations may not be general. *Society for Integrative and Comparative Biology*, Toronto, Canada.

Oufiero, C. and M. J. Angilletta. 2003. Energetics of lizard embryos at fluctuating temperatures. *Society for Integrative and Comparative Biology*, Toronto, Canada.

2002

Angilletta, M. J. and **R. M. Pringle**. 2002. Do thermal requirements of offspring drive the nesting behavior of lizards? *American Society of Ichthyologists and Herpetologists, Herpetologists League and The Society for the Study of Amphibians & Reptiles*, Kansas City, Missouri.

Angilletta, M. J. and **R. M. Pringle**. 2002. Thermal requirements of offspring drive the nesting behavior of lizards. *Society for Integrative and Comparative Biology*, Anaheim, California.

2001

Angilletta, M. J. and M. W. Sears. 2001. Latitudinal variation in the growth efficiency of lizard embryos. *Herpetologists League and The Society for the Study of Amphibians & Reptiles*, Indianapolis, Indiana.

Angilletta, M. J., **V. Lee**, and **A. C. Silva**. 2001. How do embryos incubated at higher temperatures spend less energy? *Society for Integrative and Comparative Biology*, Chicago, Illinois.

Niewiarowski, P. H., M. J. Angilletta, A. Leaché, and W. P. Porter. 2001. Phylogenetically-based comparative analysis of life history variation among populations of *Sceloporus undulatus*. *Society for Integrative and Comparative Biology*, Chicago, Illinois.

2000

Angilletta, M. J. and M. W. Sears. 2000. Intraspecific variation in the energy budgets of lizard embryos. *Society for Integrative and Comparative Biology*, Atlanta, Georgia.

Sears, M. W. and M. J. Angilletta. 2000. The effect of water supplementation on hatchling growth in the sagebrush lizard (*Sceloporus graciosus*). *Ecological Society of America*, Salt Lake City, Utah.

1999

Angilletta, M. J. 1999. Thermoregulation by fence lizards: evidence of coadaptation of physiology and behavior. *American Society of Ichthyologists and Herpetologists*, College Park, Pennsylvania.

Angilletta, M. J. 1999. Variation in metabolic rate between populations of a geographically widespread lizard: implications for life history. *Society for Integrative and Comparative Biology*, Denver, Colorado.

Angilletta, M. J. and M. Sears. 1999. The metabolic cost of reproduction in an oviparous lizard. *Society for Integrative and Comparative Biology*, Denver, Colorado.

1998

Angilletta, M. J. and P. H. Niewiarowski. 1998. The thermal sensitivity of energy assimilation in a geographically widespread lizard. *Society for Integrative and Comparative Biology*, Boston, MA.

Angilletta, M. J. and R. S. Winters. 1998. Natural selection does not always minimize the variance in fitness. *Society for Integrative and Comparative Biology*, Boston, MA.

Angilletta, M. J., R. S. Winters, and A. E. Dunham. 1998. Thermal acclimation of embryonic metabolism in the fence lizard, *Sceloporus undulatus*. *Ecological Society of America*, Baltimore, Maryland.

1992

Angilletta, M. J. 1992. A radiotelemetric study of the green mamba, *Dendroaspis angusticeps*. *New Jersey Academy of Science*, Trenton, New Jersey.

GRANTS

2014 \$32,000 - National Science Foundation

Unifying Ecology across Scales: A Gordon Research Conference. Duration: 2014-2015. CO-PI: M. Ernest

2013 \$5,508 - National Science Foundation

Research Experience for Undergraduates: Incorporating physiological variation in mechanistic range models for ecological forecasting. Duration: 2013-2014

2012 \$25,222 - National Science Foundation

Research Opportunity Award: Incorporating physiological variation in mechanistic range models for ecological forecasting. Duration: 2012-2013

\$5,508 - National Science Foundation

Research Experience for Undergraduates: Incorporating physiological variation in mechanistic range models for ecological forecasting. Duration: 2012-2013

2011 \$930,000 - National Science Foundation

Collaborative Research: Incorporating physiological variation in mechanistic range models for ecological forecasting. Duration: 2011-2014. Co-PIs: L. Buckley & T. Keitt (ASU: \$571,516)

2010 \$83,000 - Department of Energy

Developing mechanistic distribution models that use species' traits to predict responses to climate change. Duration: 2010-2011. Co-PI: L. Buckley (ASU: \$49,000)

2009 \$5,500 - National Science Foundation

Research Experience for Undergraduates: Toward a spatially explicit theory of thermoregulatory behavior. Duration: 2009-2010. Co-PI: W. A. Mitchell

\$5,020 - Indiana State University Research Committee

Thermal games: large-scale experimental studies of the interactions between competitors during thermoregulation. Duration: 2009-2010

2008 \$3,000 – Indiana Academy of Science

Environmental stochasticity and developmental responses: expression of heat-shock proteins by fruit flies during unpredictable thermal conditions. Duration: 2008-2009. Co-PI: B. Williams

\$2,554 - Indiana Academy of Science

Towards a quantitative theory of thermal acclimation. Duration: 2008-2009. Co-PI: B. S. Cooper

\$5,500 - National Science Foundation

Research Experience for Undergraduates: Toward a spatially explicit theory of thermoregulatory behavior. Duration: 2008-2009. Co-PI: W. A. Mitchell

\$6,000 – Information Technology Innovations Mini-grant

Impacts of climate change on animals in variable thermal environments. Duration: 2008-2009.

2007 \$50,000 - National Center for Ecological Analysis and Synthesis

\$50,000 - National Evolutionary Synthesis Center

Mechanistic distribution models: energetics, fitness, and population dynamics Duration: 2007-2011. Co-PIs: L. Buckley, R. D. Holt & J. Tewksbury

\$5,500 - National Science Foundation

Research Experience for Undergraduates: Toward a spatially explicit theory of thermoregulatory behavior. Duration: 2007-2008. Co-PI: W. A. Mitchell

\$5,000 - Indiana State University Research Committee

Urban physiology: thermal adaptation to urban heat islands. Duration: 2007-2008

\$5,000 - Alliance for Excellence in Experiential Learning & Community

Engagement (funded by the Eli Lilly Foundation) Biological consequences of urban land use in Indiana. Duration: 2007-2008.

2006 \$243,694 - National Science Foundation

Collaborative Research: Toward a spatially explicit theory of thermoregulatory behavior (9/1/06-8/31/09). Duration: 2006-2009. Co-PIs: M. W. Sears & W. A. Mitchell (ISU: \$157,145)

\$15,000 - Indiana State University's Promising Scholars Program

Developing a Unified Theory of Thermal Adaptation. Duration: 2006-2007.

\$20,000 - Alliance for Excellence in Experiential Learning & Community

Engagement (funded by the Eli Lilly Foundation)

Modeling the impact of temperature on the dynamics of ecological communities. Duration: 2006-2007.

\$2,948 - Indiana Academy of Science

Variation in thermal physiology of an invasive lizard (*Anolis sagrie*) along a latitudinal gradient. Duration: 2006-2007.

\$2,896 - Indiana Academy of Science

Effects of temperature on the interactions of species in aquatic communities. Duration: 2006-2007.

2005 \$5,000 - Alliance for Excellence in Experiential Learning & Community

Engagement (funded by the Eli Lilly Foundation)

Modeling the impact of temperature on the dynamics of ecological communities. Duration: 2005-2006.

\$3,312 - Indiana State University Research Committee

Physiological tradeoffs and phenotypic integration. Duration: 2005-2006.

2003 \$14,858 - National Science Foundation

Symposium: The evolution of thermal reaction norms for growth rate and body size in ectotherms (9/1/03-9/1/04). Duration: 2003-2004. Co-PI: M. W. Sears

\$2,300 - Indiana Academy of Science

The evolution of phenotypic plasticity reconsidered: tradeoffs and constraints on the evolution of reaction norms for growth rate. Duration: 2003-2004.

\$2,400 - Indiana Academy of Science

The evolution of growth efficiency in response to cold climates. Duration: 2003-2004. Co-PI: C. E. Oufiero.

2002 \$2,070 - Indiana Academy of Science

Adaptive maternal effects of nesting behavior under temporal and spatial variation in the thermal environment. Duration: 2002-2003.

\$5,650 - Indiana State University Research Committee

Do mothers know best? An investigation of the maternal effect of nest-site choice. Duration: 2002-2003.

\$600 - Indiana Academy of Science

The evolution of growth efficiency in lizard embryos. Co-PI: C. E. Oufiero. Duration: 2002-2003.

2001 \$1,962 - Indiana State University International Travel Grant

Collaborative research in ecological and evolutionary physiology. Duration: 2001-2002.

\$1,840 - Indiana Academy of Science

Experimental studies of the life-history consequences of nest site selection in the lizard, *Sceloporus undulatus*. Duration: 2001-2002.

2000 \$4,829 - Indiana State University Research Committee

Effects of temperature on the body sizes of animals: Do lizards break the rules? Duration: 2000-2001

1998 \$5,000 - The University of Pennsylvania Research Foundation

Geographic variation in thermoregulatory constraints and its influence on the life histories of ectotherms. Duration: 1998-1999.

\$500 - Gaige Award, American Society of Ichthyologists and Herpetologists
Physiological causes of life-history variation in a widespread lizard. Duration: 1998-1999

\$500 - SICB Grant-in-Aid of Research

Physiological sources of life-history variation in the geographically widespread lizard, *Sceloporus undulatus*. Duration: 1998-1999

1996 \$500 - Sigma Xi Grant-in-Aid of Research

Reproductive effort in the fence lizard, *Sceloporus undulatus*. Duration: 1996-1997

\$25,721 - The University of Pennsylvania Research Foundation

Feeding rates and net assimilated energy of iguanid lizards measured by turnover of stable carbon isotopes. Duration: 1996-1997 Co-PI: A. E. Dunham

1995 Materials (D₂O, 99.9%, 100 g) - Cambridge Isotope Laboratories

Feeding rates and net assimilated energy of the iguanid lizard *Sceloporus merriami*, measured by turnover of stable carbon isotopes.

\$26,000 - The University of Pennsylvania Research Foundation

Feeding rates and net assimilated energy of the iguanid lizard *Sceloporus merriami*. Duration: 1995-1996. Co-PI: A. E. Dunham

1994 \$1000 - Theodore Roosevelt Memorial Fund

The evolution of performance breadth in ectotherms. Duration: 1994-1995

PROFESSIONAL SERVICE

Consulting

- Special Advisory Committee, New Jersey Pinelands Commission, 2001-2004
- BIOSIS, Philadelphia, PA, 2000

Editorial Positions

- Guest Editor, *Proceedings of the National Academy of Science*, 2014 & 2015
- Inaugural Editorial Board, *Conservation Physiology*, 2012-2015
- Editorial Board, *Journal of Thermal Biology*, 2012-2018
- Associate Editor, *The American Naturalist*, 2010-2013
- Inaugural Editorial Board, *Oxford Bibliographies*, 2011-2013
- Faculty of 1000, Physiological Ecology Section, 2009-2012
- Associate Editor, *Functional Ecology*, 2005-2011
- Associate Editor, *Herpetologica*, 2003-2005
- Ad hoc Assigning Editor, *Conservation Biology*, 2004

Peer Reviews

- **Journals:** *Acta Oecologia*, *Acta Zoologica Sinica*, *The American Naturalist*, *Animal Behaviour*, *Aquaculture Research*, *Aquatic Biology*, *Behavioral Ecology*, *Behaviour*, *Biology Letters*, *Biological Conservation*, *Biological Journal of the Linnean Society*, *Biological Reviews*, *BMC Evolutionary Biology*, *Canadian Journal of Zoology*, *Contemporary Herpetology*, *Comparative Biochemistry and Physiology*, *Conservation Physiology*, *Copeia*, *Current Biology*, *Diversity and Distributions*, *Ecology*, *Ecology Letters*, *Ecological Monographs*, *Ecography*, *Ecoscience*, *Environmental Entomology*, *Ethology*, *Evolution*, *Evolutionary Applications*, *Evolutionary Ecology*, *Evolutionary Ecology Research*, *Functional Ecology*, *Genetica*, *Global Change Biology*, *Global Ecology and Biogeography*, *Heredity*, *Herpetologica*, *Herpetological Journal*, *Herpetological Monographs*, *Herpetological Natural History*, *Herpetological Review*, *Insect Science*, *Integrative and Comparative Biology*, *Integrative Zoology*, *Invertebrate Biology*, *ISME Journal*, *Journal of Animal Ecology*, *Journal of Applied Ecology*, *Journal of Biogeography*, *Journal of Comparative Physiology*, *Journal of Evolutionary Biology*, *Journal of Experimental Biology*, *Journal of Herpetology*, *Journal of Insect Physiology*, *Journal of Insect Science*, *Journal of Natural History*, *Journal of Thermal Biology*, *Journal of Zoology*, *Marine Biology*, *Molecular Ecology*, *Nature*, *Nature Climate Change*, *Naturwissenschaften*, *Oecologia*, *Oikos*, *Personality and Social Psychology Bulletin*, *Philosophical Transactions of the Royal Society*, *Physiological and Biochemical Zoology*, *PLoS Biology*, *PLoS ONE*, *Population Ecology*, *Proceedings of the National Academy of Sciences*, *Proceedings of the Royal Society of London B*, *Science*, *Theoretical Population Biology*, *Western North American Naturalist*, *Zoological Studies*, *Zoology*⁷⁶

- **Funding Agencies:** Arkansas Cooperative Fish & Wildlife Research Unit, Binational Science Foundation, European Research Council, European Science Foundation, European Union Marie Curie Fellowship, Leverhulme Trust, National Aeronautics and Space Administration, Polish National Science Center, Portuguese Foundation for Science and Technology, Research Grants Council of Hong Kong, South African National Research Foundation, US National Science Foundation
- **Publishers:** Blackwell Scientific, McGraw-Hill, Oxford University Press, Prentice-Hall, SETAC Press, W. H. Freeman

Workshops Attended

- Invasion Biology Rules of Life, West Greenwich, RI, 2019. Sponsored by the National Science Foundation
- Research Coordination Network, 2015. FORECAST: Coupling demography and physiology to forecast species responses to novel conditions. Sponsored by the National Science Foundation
- Macrophysiology Workshop, San Francisco, CA, 2013. Sponsored by the Society for Integrative and Comparative Biology
- Metabolic Basis of Ecology, Biddeford, ME, 2012. Sponsored by the Gordon Research Conferences
- Thermal adaptation in ectotherms, Sitges, Spain, 2012. Sponsored by the European Science Foundation
- Macrosystems Biology, Boulder, Colorado, 2012. Sponsored by the National Science Foundation
- Evolutionary and physiological adaptation to climate-induced environmental changes, Bialowieza, Poland, 2009. Sponsored by the European Science Foundation
- Metabolic Basis of Ecology, Lewiston, ME, 2006. Sponsored by the Gordon Research Conferences
- Evolutionary consequences of anthropogenic changes on long-term viability of Pacific salmon and steelhead. Seattle, Washington, 2006. Sponsored by the National Oceanic and Atmospheric Administration

Other Professional Service

- Co-Chair, Gordon Research Conference: Unifying Ecology across Scales, 2012-2014
- Discussion Leader, Macrophysiology Workshop, 2013
- Discussion Leader, Gordon Research Conference: Metabolic Basis of Ecology, 2012
- Selection Committee, Raymond B. Huey Award, Society for Integrative and Comparative Biology, 2012
- Chair, Division of Ecology & Evolution, Society for Integrative and Comparative Biology, 2013-2015 (Chair Elect from 2011-2013)
- Symposium Organizer, A synthetic approach to the response of organisms to climate change: the role of thermal adaptation. Held at the annual meeting of the *Society for Integrative and Comparative Biology* in 2011
- Working Group Organizer, Mechanistic distribution models: energetics, fitness, and population dynamics (co-sponsored by the National Center for Ecological Analysis & Synthesis and the National Evolutionary Synthesis Center, 2006-2009)
- Symposium Organizer, The evolution of growth rate and body size in ectotherms. Annual meeting of the Society for Integrative and Comparative Biology, 2004
- Judge, Best Paper Award, Society for Integrative and Comparative Biology, 2003-2012
- Judge, Stoye Award, American Society of Ichthyologists and Herpetologists, 2002

UNIVERSITY SERVICE

Arizona State University, Tempe, Arizona

- Member of Search Committee for the University Provost, Office of the President, 2020
- President's Professor Selection Committee, Office of the Provost, 2020-2021
- Working Group Member, Innovation Collaboratory, Office of the Provost, 2018-present
- Chair, Search Committee for Associate Director of Faculty Affairs, SOLS, 2020
- Chair, Search Committee for Associate Director of Graduate Programs, SOLS, 2017
- Chair, Search Committee for Associate Director of Facilities, SOLS, 2017
- Chair, Academic Program Review Subcommittee, SOLS, 2016-2017
- Co-chair, Active Learning Planning Committee, SOLS, 2016-2017
- Online Program Lead Committee, CLAS, 2016-2017
- Working Group Member, Online Education, CLAS, 2016-2017
- Committee Member, First Year Forward Initiative, CLAS, 2014-2015
- Chair, Search Committee for Associate Director of Graduate Programs, SOLS, 2015
- Chair, Search Committee for Macrosystems Biology, SOLS, 2014-2015
- Assessment Committee, SOLS, 2014
- Animal Care User Committee, SOLS, 2013
- Science Education (K-12) Search Committee, Fulton Teachers College, 2012
- Undergraduate Programs Committee, SOLS, 2012-present
- Curriculum Reform Committee, SOLS, 2010-present
- Advisory Board for Ecosystem Conservation & Resilience Initiative, 2012-2013
- Advisory Committee for University Technology Office, 2012
- Communications Committee, SOLS, 2012-2013
- Science Education Search Committee, Mary Lou Fulton Teachers College, 2012
- Workshop Leader, Responsible Conduct in Research, OKED, 2013
- Speaker and Panelist for Preparing Future Faculty Program, 2011-2013
- Review Panel for SOLUR Program, SOLS, 2011
- Review Panel for Peabody Award, SOLS, 2011
- Hosted seminar/debate: Andy Clarke & Jamie Gillooly, SOLS, 2011

Indiana State University, Terre Haute, Indiana

- Chair, Search Committee for Chairperson of Biology, 2009
- Chair, Graduate Affairs Committee, 2009-present
- Mediation Hearing Committee, College of Arts & Sciences, 2008-2009
- Lab Coordinator Search Committee, 2008
- Molecular Microbiologist Search Committee, 2008
- Personnel Committee, 2006-2008
- Institutional Animal Care & Use Committee, 2005-2010
- Library Advisory Committee, 2002-2008
- Chair, Curriculum Committee, 2005-2007
- Budget Committee, 2002-2004
- Admissions & Advising Committee, 2001, 2003-2004
- Reviewer for Institutional Animal Care & Use Committee, 2000-2010
- Departmental Scribe, 2002-2004
- Biology Education Search Committee 2003
- Curriculum Committee, 2002
- Biology/Science Education Search Committee, 2002
- Webmaster, Organismal & Environmental Biology Group, 2001-2004

- Judge, Annual Research Showcase, 2001-2002
- Environmental Microbiologist Search Committee, 2001

The University of Pennsylvania, Philadelphia, Pennsylvania

- Lecturer Search Committee, Department of Biology, 1999-2000
- President, Biology Graduate Student Association, 1998-1999
- Organizer, Greater Philadelphia Ecology & Evolution Meeting, 1998
- Student Representative, NSF Graduate Research Trainee Meeting, 1997
- Organizer for Penn-Princeton Annual Meeting, 1996
- Ecology Seminar Chair, Biology Graduate Student Association, 1995-1996
- Social Chair, Biology Graduate Student Association, 1994-1995

MENTORING

Undergraduate students

Barrett Honors Thesis Principle Advisor

Zachary Hamsch (2012-2013), Greg Adrian (2012-2014), David Belohlovek (2013-2015), Davina Kumar (2014-2015), Shayan Shieh Zadegan (2014-2016), Jackie Le (2014-2016), Kyle Bathke (2016-2017), Jacob Freddette-Roman (2018-2020), Oluwatosin Babarinde (2018-2020)

Barrett Honors Thesis Committee Member

Adriana Manrique (2011-2012), Derek Somo (2011-2012), Samantha Basso (2013-2014), Annika Vannan (2014-2015), Allyson Atkinson (2015-2017), Cally Hartson (2015-2016), Brittany Kaminsky (2017-2018)

National Science Foundation REU Fellows (or similar NSF funded fellowships)

Deanna Elliot (2018-2019); Kwasi Boateng, Davina Kumar, Colton Smith (2013), Greg Adrian, David Malekooti, Max Zelic (2012), Monica Stegman (2009), Travis Rusch and Nicholas Tacker (2008), Jamison Mize, Matt Schuler, and Ben Williams (2007)

Alliance for Excellence in Experiential Learning and Community Engagement Fellows

Ben Williams (2008), Brandon Cooper (2007), Somayeh Semati (2006-2007)

Indiana State University SURE Fellows

Jeff Tharp (2009, 2010), Isaiah Jernberg (2009), Colton Smith (2014), Jackie Le (2015)

HHMI LEAP Scholars

Deanna Elliott (2018-2020), Cindy Vargas (2019-2020)

Arizona State University SOLUR Fellows

Alex Hurliman (2011-2013), Shayan Shieh Zadegan (2014-2016), Collin Teague (2015-2017); Jacob Freddette-Roman (2018-2020)

Independent Research (BIO 495)

2000: Tracy Hill, Vivian Lee, Rob Pringle, and Albert Silva, **2003:** Monika Mickelson, Paul Pavell, and Amanda Smith; **2004:** Ryan Heape, Somayeh Semati, and Stuart Smith; **2005:** Melinda Curtis; **2007:** Brandon Cooper; **2008:** Nicholas Tacker and Ben

Williams, **2011**: Emily Gable, Alex Hurliman, Phivu Nguyen, Max Zelic; **2012**: Alex Hurliman, Phivu Nguyen, Max Zelic; Mazen Aiche, Greg Adrian, David Malekooti, Donald Kilby; **2013**: Mazen Aiche, Greg Adrian, Illyra Vote, Kwasi Boateng, Casey Valimaki, Calvin Kruger, and Andre Quihuis; **2014**: Bruno Moreira, Greg Adrian, Taylor Schnepf, Shayan Shiehzadegan, and Angela Riley; **2015**: Kyle Bathke, Bruno Moreira, Greg Adrian, Olivia Bagues, Kayla Campbell, Sarah Conrad, Nicolas Deraad, Jana Djokic, Mark Egidi, Brooke Fletcher, Refat Jayyusi, Scott Marquez, Nolan Piper, Taylor Schnepf, Shayan Shiehzadegan, Ryan Sloekers, Collin Teague, Rachel Wuest; **2016**: Kinley Ragan, Indira Ceranic; **2017**: Kinley Ragan, Megan Donnay, Jacob Freddette-Roman, Emma Williams; **2018**: Michelle Edwards, Deanna Elliott, Megan Donnay, Oluwatosin Babarinde, Aunmolpreet Chahal, Rida Imtiaz, Jacob Fredette-Roman; **2019**: Deanna Elliott, Oluwatosin Babarinde, Aunmolpreet Chahal, Rida Imtiaz, Jacob Fredette-Roman, Cindy Vargas **2020**: Deanna Elliott, Daniel Fornshell, Rida Imtiaz, Nicole Kaiser, Philip Nguyen, Cindy Vargas

Work Study

Chad Jackson (2002-2003), Alice Thomas (2003-2004), Michelle Mollencup (2003), Somayeh Semati (2004), Rebekah Borders (2005), Cayle Moreo, Chaitandra Koneru, and Amanda Smith (2006), Brandon Cooper (2006-2007), Angela Borchelt (2007-2010), Courtney Lower and Ben Williams (2008-2009), Isaiah Jernberg and Jeff Tharp (2008-2010), Logan Brown (2009-2010), Daniella Rodriguez (2010-2011), Zachary Hamsch and Stephanie Lieczewski (2011), Zachary Hamsch (2012), Colton Smith (2012-2013)

Graduate Students

Chair of committee (Principal Advisor)

- Chris Oufiero, M.S. (2001-2004), Thermal adaptation of maternal and embryonic phenotypes in a geographically widespread lizard. [Currently an Associate Professor at Towson University]
- Melissa Storm, M.S. (2003-2006), Rapid assimilation of yolk enhances growth and development of lizard embryos from a cold environment. [Currently an Instructor at the University of South Carolina]
- Dee Asbury, M.S. (2005-2008), Thermodynamic effects on the evolution of performance curves: theoretical and empirical studies of organismal growth rates. [Currently resides in Austin, TX]
- Matt Schuler, M.S. (2007-2009), An experimental test of spatially-explicit models of behavioral thermoregulation. [Currently a postdoc at Rensselaer Polytechnic Institute]
- Joseph Ehrenberger, M.S. (2006-2009), A phylogenetic comparative test of thermal adaptation in the eastern fence lizard. [Currently a private environmental consultant]
- Brandon Cooper, M.S. (2007-2009), The evolution of acclimation responses in stochastic thermal environments: an experimental test in *Drosophila melanogaster*. [Currently an Assistant Professor at the University of Montana]
- Travis Rusch, Ph.D. student (2011-2017), Integrating Spatial Constraints and Biotic Interactions to Assess the Costs of Thermoregulation by Lizards [Currently a postdoc at Texas A&M University]
- Graham Ray, M.S. (2013-2015), Use of a physiologically derived environmental variable in modeling the distribution of *Urosaurus ornatus*.

- Jason Borchert, Ph.D. (2010-2018) The younger games: flies compete for oviposition sites that benefit their young [Currently a Lecturer at Claremont College]

Member of committee

- Angie Fulford, M.S. from Indiana State University (2001). Chemical signal recognition by salamanders in simple and complex environments.
- Aaron Lynott, M.S. from Indiana State University (2002). Thermoregulation in swimming mallard ducklings.
- Matt Van Sant, M.S. from Indiana State University (2005). Thermoregulation challenges in mallard ducklings.
- Zaina Kabange, M.S. from Indiana State University (2005). Effects of testosterone and immune challenge on white blood cells in adult male *Sceloporus undulatus* lizards: An experimental test.
- Mukta Chakraborty, M.S. from Indiana State University (2005). Possible immunosuppression by androgens in northern fence lizards (*Sceloporus undulatus hyacinthinus*).
- Chia-Hua Lin, M.S. from Indiana State University (2006). Is variation in forest size related to pollination success of forest herbs? A comparison of a specialized and a generalized species.
- Todd Steury, Ph.D. from Indiana State University (2007). Distributions and movements of predator and prey in an ideal free environment.
- Amanda Niehaus, Ph.D. from the University of Queensland (2007). Physiological responses of amphibians to fluctuating thermal environments
- Jonathon Cox, M.S. from Indiana State University (2007). Antipredator behavior influences the strength of trophic cascades in aquatic communities
- Maria Thaker, Ph.D. from Indiana State University (2009). Predation risk and hormonal mechanisms of fear in lizards
- Elizabeth Foulkes, M.S. from Indiana State University (2009). Variation in performance capacity among color morphs of the tree lizard, *Urosaurus ornatus*.
- Justin Boyles, Ph.D. from Indiana State University (2009). The evolutionary physiology of hibernation in bats
- Xuefei Xu, Ph.D. from Indiana State University (2009). Modeling urban warming in Indianapolis with remotely sensed data
- Jennifer Heeymeyer, M.S. from Indiana State University (2011). Post-breeding migration and habitat selection by crawfish frogs (*Lithobates areolatus*)
- Chris Thawley, M.S. from the University of Alabama (2011). Physiological niches of invasive frogs
- Scott van Barnevald, Ph.D. from the University of Sydney (2011). Ecology, behavior, and physiology of the highly invasive lizard, *Lampropholis delicata*
- Michael Rowe, Ph.D. from Indiana State University (2012). Applications of climate-space models to the management of captive populations of elephants
- Jeffrey Ackley, Ph.D. from Arizona State University (2015). Rich lizards: how affluence, land cover, and the urban heat-island effect influence desert reptiles
- Karla Moeller, Ph.D. from Arizona State University (2016). Does size matter? Ecological implications of ontogenetic differences in physiology and behavior
- Eric Moody, Ph.D. from Arizona State University (2017). Temperature as a driver of intraspecific stoichiometric variation in aquatic consumers.
- Tucker Ely, Ph.D. Candidate at Arizona State University. Biochemical constraints on the origin and evolution of life

- Mohamed Al-Sayegh, Ph.D. from Arizona State University (2017). The effect of anthropogenic Disturbance on the ecology and physiology of dhubs (*Uromastix aegyptius*) in Kuwait.
- Michael Carlo, M.S. from Clemson University (2018). Acclimation and adaptation of *Sceloporus undulatus* to climate warming
- Jon Vimmerstedt, M.S. from Midwestern University (2019). What is the role of oxygen supply and demand in setting thermal limits in Japanese quail embryos?
- Tucker Ely, Ph.D. Candidate at Arizona State University (2020). Biochemical constraints on the origin and evolution of life.
- Nicholas Massimo, Ph.D. Candidate at Arizona State University. Physiological ecology of disease in Arizona toads
- Deanna Zembrusky, Ph.D. Candidate at Arizona State University. Connecting the Nutritional Ecology and Physiology of *Melanoplus sanguinipes* to Immunology under Biopesticide Challenges
- Trevor Fox, Ph.D. Candidate at Arizona State University. The ecophysiology of overwintering *Aedes aegypti* in Phoenix, AZ

Postdoctoral Fellows

- Michael W. Sears (2002-2004), National Science Foundation Postdoctoral Fellow in Bioinformatics
- Catriona Condon (2011-2013), Postdoctoral Fellow in Evolutionary Physiology
- Ofir Levy (2011-2016), Postdoctoral Fellow in Mechanistic Niche Modeling
- Agus Camacho (2015-2016), University of São Paulo, Brazil

Visiting Scholars

- Dylan Padilla (2018), Masters student from University of São Paulo
- Samuel Vrillaud (2018), Undergraduate from University of Potiers, France
- Valentin Leroux (2017), Undergraduate from University of Potiers, France
- Ken Welch (2016-2017), Associate Professor from University of Toronto
- Natalia Derus (2015), Doctoral student from Jagiellonian University
- Marcin Czarnoński (2012, 2013, 2014), Assoc. Professor from Jagiellonian University
- Liliane Moura (2015), Brazil Scientific Mobility Program
- Rory Telemeco (2014-16), Postdoctoral Fellow from University of Washington
- Carolina Norhona (2013-14), Doctoral student from University of São Paulo
- Chun-sen Ma (2013), Professor from Chinese Academy of Science
- Michael Sears (2012), NSF Research Opportunity Fellow from Bryn Mawr College
- Lesley Alton (2012), SEB Visiting Fellow from the University of Queensland
- Robbie Wilson (2011-2017, 2-6 mo./y), Assoc. Prof from University of Queensland
- George Gilchrist (2010), Program Officer from the National Science Foundation
- Zuzana Starostova (2010), ESF Fellow from Charles University
- Marcin Czarnoński (2008), Fulbright Fellow from Jagiellonian University

Visiting Educators

- Aaron Lynott (2008), Eli Lilly Teacher Creativity Fellow from Terre Haute North High School
- Rachel Cooper (2012), Eli Lilly Teacher Creativity Fellow from Columbia Signature Academy Campus