

*Curriculum Vitae*

# Arianne J. Cease

Assistant Professor, School of Sustainability, **Arizona State University**

## EDUCATION

- 2007-2012      Ph.D., Biology, Arizona State University, AZ, USA.  
Dissertation title: Locust outbreaks and migration in the Asian steppe: the influence of land management practices and host plant nutrient status
- 2000-2004      B.Sc., Zoology, minor Chemistry, Oregon State University, OR, USA.  
Thesis title: Corticosterone and the transition from courtship behavior to dispersal in male red-sided garter snakes (*Thamnophis sirtalis parietalis*)

## PROFESSIONAL APPOINTMENTS

- 2017-present      Founding Director, Global Locust Initiative, Arizona State University
- 2014-present      Assistant Professor, School of Sustainability, Arizona State University
- 2013-2014      NSF Science, Engineering, and Education for Sustainability Fellow (SEES) & Assistant Research Professor, School of Life Sciences, Arizona State University, Tempe, AZ
- 2013-2014      Visiting Scholar, Faculties of Agriculture and Environment and the School of Biological Sciences, University of Sydney, Australia
- 2012-2013      Postdoctoral Research Fellow, School of Biological Sciences, University of Sydney, Australia
- 2007-2012      Teaching and Research Assistant, School of Life Sciences, ASU, Tempe, AZ
- 2006-2007      Program Assistant for Tualatin River Watershed Council and for Sustainable Oregon Schools Initiative, Zero Waste Alliance, Portland, OR
- 2005-2006      United States Peace Corps Volunteer, Natural Resource Management Extension Agent (Senegal)
- 2005      Research Technician, Ecology and Evolutionary Biology Department, Brown University, RI
- 2004      Teaching Assistant, Zoology Department, Oregon State University, OR
- 2002-2004      Undergraduate Research Assistant, Zoology Department, Oregon State University, OR

**MAJOR RESEARCH INTERESTS** ecology, physiology, plant-insect interactions, sustainability, coupled natural-human systems, transboundary pest management, agroecology

## HONORS AND OTHER AWARDS

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- 2019      Finalist, Outstanding Faculty Mentor Awards in the category of Outstanding Postdoctoral Mentor, Graduate College, Arizona State University
- 2015      Brilliant 10, Popular Science magazine (<https://www.popsci.com/brilliant-10-arianne-cease-prevents-biblical-plagues-with-modern-data>)
- 2014      Honorable Mention, Dorothy M Skinner Award (early career achievement), Society for Integrative and Comparative Biology

2012	Honorable Mention, Biogeosciences Elizabeth Sulzman award, Ecological Society of America
2011	Distinguished Graduate Student, Faculty Women's Association, Arizona State University
2008	Outstanding Graduate Student. Arizona State University Graduate College.

## RESEARCH

### RESEARCH GRANTS

2018-2021	New Innovator in Food and Agriculture Research Award, Foundation for Food and Agriculture Research (FFAR); "A coupled natural-human systems approach to solving locust plagues" (PI) \$300,000
2018-2019	USAID Office of U.S. Foreign Disaster Assistance (OFDA) award "Monitoring and Soil Amendments for Locust Management: A Pilot Project in the Kaffrine Region of Senegal" (PI) \$539,708
2018-2019	NSF RAPID: Testing macronutrient imbalance as a key factor limiting range expansion in herbivores (lead PI; Jon Harrison is Co-PI). \$120,000 (IOS-1826848)
2017-2019	USDA Animal and Plant Health Inspection Service (APHIS) Center for Plant Health Science and Technology (CPHST) cooperative agreement: Grasshopper rearing in support of methods development for rangeland research (PI) \$82,346
2017-2018	ASU's Institute for Humanities Research (IHR): Research Cluster: Food and well-being in the Anthropocene (Facilitators are Joshua MacFadyen, Tyler DesRoches, and Joan MacGregor; my role: Cluster participant) \$1000
2013-2019	NSF CNH: Living with locusts: linking livestock markets and grazing practices with the nutritional ecology of grasses and locusts under alternative property rights regimes (lead-PI; co-PI's are Jon Harrison, James Elser, Eli Fenichel, Brian Robinson, Joleen Hadrach) \$955,000 (DEB-1313693)
2013-2017	NSF SEES FELLOWS: Living with locusts: Training an ecophysiologicalist to incorporate bioeconomic modeling and collaborate with applied food security and agricultural agencies (PI) \$338,921 (CHE-1313958)
2011-2012	Philanthropic Educational Organization (P.E.O.) Scholar Award \$15,000
2010-2012	Doctoral Dissertation Enhancement Program, National Science Foundation \$14,988
2011	Achievement Rewards for College Scientists, Johnston Scholar \$7000
-	Student Organization Grant, ASU Graduate & Professional Student Association ( <i>for Association for Women in Science 'AWIS' speaker series</i> ) \$1200
2010	Lisa Dent Memorial Ecology Fellowship, Arizona State University \$4500
-	Achievement Rewards for College Scientists, Marley Webb Scholar \$7000
-	Frontiers in Life Sciences Conference Grant (co-PI) \$30,000
2009	Graduate Research Fellowship Honorable Mention, National Science Foundation
-	Achievement Rewards for College Scientists, Marley Webb Scholar \$7000
2008-9	Research Grant, ASU Graduate & Professional Student Association \$1975
2008	Sigma Xi Grants-in-Aid of Research, Arizona State University Chapter. \$400
-	Sigma Xi Grants-in-Aid of Research, National \$984
-	East Asia and Pacific Summer Institutes Award, National Science Foundation \$5637

- Achievement Rewards for College Scientists, Marley Webb Scholar \$7000
- 2007 University Graduate Fellowship. Arizona State University \$1000
- 2004 Howard Hughes Medical Institute Undergraduate Fellowship Program. Oregon State University \$1800
- Undergraduate Research, Innovation, Scholarship, Creativity Grant. Oregon State University \$1720

**SUBMITTED**

- 2019-2024 USAID: Feed the Future Innovation Lab for Food Security Policy Research, Capacity, and Influence (Eric Welch is lead PI; I am one of 24 Co-Investigators) \$12,991,798 *In review*

**RESEARCH PUBLICATIONS**


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Co-authors marked for my undergraduate<sup>1</sup>, MS<sup>2</sup>, and PhD<sup>3</sup> students, postdocs<sup>4</sup>, and staff<sup>5</sup> for which I was/am the primary faculty advisor or supervisor

**Note: In my field, final author denotes “senior author”. These are papers typically led by trainees in my lab and to which I contributed the most, after the first author.**

**Refereed – published**

19. Word ML<sup>2</sup>, Hall SJ, Robinson BE, Manneh B<sup>1</sup>, Beye A, **Cease AJ**. 2019. Soil-targeted interventions could alleviate locust and grasshopper pest pressure in West Africa. *Science of The Total Environment (STOTEN)* 663: 632-643 <https://doi.org/10.1016/j.scitotenv.2019.01.313>
18. Robertson RM, **Cease AJ**, Simpson SJ. (2019) Anoxia tolerance of the adult Australian Plague Locust (*Chortoicetes terminifera*). *Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology* 229, 81-92 <https://doi.org/10.1016/j.cbpa.2018.12.005>
17. Niu D, Yuan X, **Cease AJ**, Wen H, Zhang C, Fu H, Elser JJ. (2018) The impact of nitrogen enrichment on grassland ecosystem stability depends on nitrogen addition level. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2017.09.318>.
16. Cullen DA, **Cease AJ**, Latchininsky AV, Ayali A, Berry K, Buhl J, De Keyser R, Foquet B, Hadrich JC, Matheson T, Ott SR, Poot-Pech MA, Robinson BE, Smith JM, Song H, Sword GA, Vanden Broeck J, Verdonck R, Verlinden H, Rogers, SM. (2017) From Molecules to Management: Mechanisms and Consequences of Locust Phase Polyphenism. *Advances in Insect Physiology* 53, 167-285. doi: 10.1016/bs.aiip.2017.06.002.
15. **Cease AJ**, Harrison JF, Hao S, Niren DC<sup>1</sup>, Zhang G, Kang L, Elser JJ (2017) Nutritional imbalance suppresses migratory phenotypes of the Mongolian locust (*Oedaleus asiaticus*). *Royal Society Open Science*. 4. doi: 10.1098/rsos.161039
14. **Cease AJ**, Fay M, Elser JJ, Harrison JF (2016) Dietary phosphate affects food selection, post-ingestive phosphorus fate, and performance of a polyphagous herbivore. *Journal of Experimental Biology (JEB)*. 219, 64-72. doi: 10.1242/jeb.126847
13. Hao S, Wang S, **Cease AJ**, Kang L. (2015) Landscape level patterns of grasshopper communities in Inner Mongolia: interactive effects of livestock grazing and precipitation gradient. *Landscape Ecology*. 1-12. doi: 10.1007/s10980-015-0247-8

12. **Cease AJ**, Elser JJ, Fenichel EF, Hadrlich J, Harrison JF, Robinson BE. (2015) Living with locusts: connecting soil nitrogen, locust outbreaks, livelihoods, and livestock markets. *BioScience*. 65 (6) 551-558. doi: 10.1093/biosci/biv048
11. **Cease AJ**, Capps KA, Gates KK, McCrackin ML, Nidzgorski DA. Woodstoich III: Consumer-driven nutrient dynamics in urban environments: the stoichiometry of human diets and waste management. (2015) *Oikos*. 127 (7) 931-948. doi: 10.1111/oik.02391
10. Zhang Z, Elser JJ, **Cease AJ**, Zhang X, Yu Q, Han X, Zhang G. (2014) Grasshoppers regulate N:P stoichiometric homeostasis by changing phosphorus contents in their frass. *PLoS ONE*, 9(8): e103697. doi:10.1371.
9. Dayger CA, **Cease AJ**, Lutterschmidt DI. (2013) Responses to capture stress and exogenous corticosterone vary with body condition in female red-sided garter snakes (*Thamnophis sirtalis parietalis*). *Hormones and Behavior*. 64, 748. doi: 10.1016/j.yhbeh.2013.09.003
8. Zhao D, Zhang Z, **Cease AJ**, Harrison JF, Kang L. (2013) Efficient utilization of aerobic metabolism helps Tibetan locusts conquer hypoxia. *BioMed Central (BMC) Genomics* 14, 631. doi: 10.1186/1471-2164-14-631
7. **Cease AJ**. (2013) Linking rangeland management with the nutritional physiology and ecology of locusts. *Proceedings of the 22<sup>nd</sup> International Grassland Congress*: 1619-1622. ISBN: 9781742565439 (peer-reviewed manuscript)
6. Harrison JF, **Cease AJ**, VandenBrooks JM, Albert T, Davidowitz G. (2013) Caterpillars selected for large body size and short development time are more susceptible to oxygen-related stress. *Ecology and Evolution*. 28, 18. doi: 10.1002/ece3.551
5. **Cease AJ** and Elser JJ. (2013) Biological Stoichiometry. *Nature Education Knowledge* 4(5):3
4. Harrison JF, Waters JS, **Cease AJ**, VandenBrooks JM, Callier V, Klok CJ, Shaffer K, Socha JJ. (2013) How locusts breathe. *Physiology*. Jan;28(1):18-27. doi: 10.1152/physiol.00043.201
3. **Cease AJ**, Elser JJ, Ford CF<sup>1</sup>, Hao S, Kang L, Harrison JF. (2012) Heavy livestock grazing promotes locust outbreaks by lowering plant nitrogen content. *Science* 335, 467-469. doi: 10.1126/science.1214433
2. **Cease AJ**, Hao S, Kang L, Elser JJ, and Harrison JF. (2010) Are color or high rearing density related to migratory polyphenism in the band-winged grasshopper, *Oedaleus asiaticus*? *Journal of Insect Physiology*. 56, 926-936. doi: 10.1016/j.jinsphys.2010.05.020
1. **Cease AJ**, Lutterschmidt DI, and Mason RT. (2007) Corticosterone and the transition from courtship behavior to dispersal in male red-sided garter snakes (*Thamnophis sirtalis parietalis*). *General and Comparative Endocrinology*. 150 (1), 24-131. doi: 10.1016/j.ygcen.2006.07.022

**Non-refereed publication**

- Medina HE, Cease AJ, and Trumper EV. (2017) The resurgence of the South American locust (*Schistocerca cancellata*). *Metaleptea, newsletter of The Orthopterists' Society*. 37(3)
- Impact Factor: n/a; Contribution: 30%

**PRESENTATIONS**

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**INVITED LECTURES AND SYMPOSIA PRESENTATIONS**

- 2019 *International Congress of Orthopterology. Agadir, Morocco. Effects of Climate and Environmental Change symposium.*
- *ASU's Center for Behavior, Institutions and the Environment (CBIE). Tempe, Arizona. Talk title: A social-ecological systems approach to addressing the ancient challenge of locust plagues*
- 2018 *Joint meeting of the Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia. Vancouver, British Columbia, Canada. Stressors Across Space and Time: Energy Sources, Enemies, and Environmental Influences symposium*
- 2017 *Entomological Society of America annual meeting, Denver, Colorado, USA. International Collaboration in Entomology: Successes and Challenges symposium*
- *National Grasshopper Board Meeting, Denver, Colorado. Plenary speaker*
  - *Tri-country workshop to develop international strategy for South American Locust research and management, Cordoba, Argentina. Organized by Servicio Nacional de Sanidad y Calidad Agroalimentaria (SENASA). Gave two seminars*
  - *Multi-institutional workshop, "Ecology and management of locusts in the world and South America", Santa Cruz, Bolivia. Organized by SENASAG (Bolivian National Service of Agricultural Health and Food Safety). Delivered seminar*
- 2016 *Multi-institutional workshop, "Workshop on bio-ecology, impact and management of locusts and grasshoppers", Buenos Aires, Argentina. Organized by Servicio Nacional de Sanidad y Calidad Agroalimentaria (SENASA). Gave two seminars. News story here (<http://www.senasa.gov.ar/senasa-comunica/noticias/taller-sobre-bioecologia-impacto-y-manejo-de-langostas-y-tucuras>)*
- *Department of Entomology, Penn State University, State College, Pennsylvania*
  - *Department of Entomology, Purdue University, Lafayette, Indiana*
  - *USDA Agricultural Research Service U.S. Arid Land Agricultural Research Center, Maricopa, Arizona*
- 2015 *Ecological Society of America. Baltimore, MD, USA. Coupled natural and human systems at the frontier of ecological research symposium*
- *Trangie Agricultural Research Centre, Department of Primary Industries, NSW Government, Australia*
  - *Australian Plague Locust Commission, Department of Agriculture and Water Resources, Australia*
  - *Lanzhou University, Lanzhou, Gansu Province, China*
  - *Qinghai Normal University, Xining, Qinghai, China*

- 2013 *International Grassland Congress. Sydney, Australia. Control of vertebrate and invertebrate pests of grass and forage systems symposium*
- 2012 *Taronga Zoo, Sydney, Australia*
- *Australian Plague Locust Commission, Canberra, Australia*
  - *International Congress of Entomology. Daegu, Korea. Integrative nutrition: from physiology to ecology and beyond symposium*
  - *Institute of Animal Sciences, Chinese Academy of Agricultural Sciences, Beijing, China*
- 2009 *Achievement Rewards for College Scientists campus tour keynote speaker, Phoenix Chapter. Phoenix, Arizona*
- 2007 *Department of Ecology and Organismal Biology, Indiana State University, Terre Haute*

### CONTRIBUTED PRESENTATIONS

**Note: In my field, final author denotes “senior author”. These are presentations typically led by trainees in my lab and to which I contributed the most, after the first author.**

Co-authors marked for my undergraduate<sup>1</sup>, MS<sup>2</sup>, and PhD<sup>3</sup> students, postdocs<sup>4</sup>, and staff<sup>5</sup> for which I was/am the primary faculty advisor or supervisor

- 2019 Overson RP<sup>5</sup>, Thompson N<sup>1</sup>, Zeballos G, Cespedes Z, Frana J, Gutierrez A, Juaquin N, Le Gall M<sup>4</sup>, Learned J<sup>5</sup>, Maldonado C, Medina H, Ramirez W, Rendon M, Roca M, Shimura L, **Cease AJ**. Nutritional ecology of the South American Locust. International Congress of Orthopterology, Agadir, Morocco
- Lawton D<sup>3</sup>, Overson RP<sup>5</sup>, Brosemann J<sup>1</sup>, **Cease AJ**. Not all food patches are the same – distribution of preferred diets impacts locust phase change. International Congress of Orthopterology, Agadir, Morocco
  - **Cease AJ**\*, Trumper E, Overson RP<sup>5</sup>. Nutritional physiology and ecology of South American locusts *Schistocerca gregaria* during a 60-year upsurge and roughly 7-fold range expansion. Society for Integrative and Comparative Biology, Tampa, FL
  - Le Gall M<sup>4</sup>\*, Thompson N<sup>1</sup>, **Cease AJ**. Cheating on Atkins: high-protein diet reduces lifespan in the Senegalese locust, *Oedaleus senegalensis*. Society for Integrative and Comparative Biology, Tampa, FL
- 2018 Le Gall M<sup>4</sup>\*, **Cease AJ**. Cheating on Atkins: High-carbohydrate diet extends lifespan in the Senegalese locust, *Oedaleus senegalensis*. Joint meeting of the Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia. Vancouver, BC, Canada.
- Brosemann J<sup>1</sup>\*, Overson RP<sup>5</sup>\*, **Cease AJ**. The effect of water limitation on nutritional regulation in the Australian plague locust, *Chortoicetes terminifera*. Joint meeting of the Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia. Vancouver, BC, Canada.
  - Lawton D<sup>3</sup>\*, Le Gall M<sup>4</sup>, Waters C, **Cease AJ**. Defining the nutritional landscape of grasshopper communities in Eastern Australia. Joint meeting of the Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia. Vancouver, BC, Canada.

- Zembzuski D<sup>3\*</sup>, Woller D, Black L, Reuter C, Jech L, **Cease AJ**. The nutritional ecology and physiology of rangeland grasshoppers in the United States. Joint meeting of the Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia. Vancouver, BC, Canada.
- Lawton D<sup>3\*</sup>, Waters C, **Cease AJ**. Locust and tree interactions in Australian rangelands. Global Locust Initiative first international conference. Global Locust Initiative international conference: Identifying the Institutional Framework and Opportunities to Influence Policy Change in Locust Research and Management. Tempe, AZ, USA
- Zembzuski D<sup>3\*</sup>, **Cease AJ**. The Effects of flight on macronutrient balance of the Australian plague locust, *Chortoicetes terminifera*. Global Locust Initiative international conference: Identifying the Institutional Framework and Opportunities to Influence Policy Change in Locust Research and Management. Tempe, AZ, USA
  
- **Cease AJ** \*. Applying nutritional ecology to locust management. Global Locust Initiative international conference: Identifying the Institutional Framework and Opportunities to Influence Policy Change in Locust Research and Management. Tempe, AZ, USA
- Le Gall M<sup>4\*</sup>, Word M<sup>2</sup>, Manneh B<sup>1</sup>, Farington R<sup>1</sup>, Thompson N<sup>1</sup>, Beye A, **Cease AJ**. Linking land use and the nutritional ecology of locusts: the case of the Senegalese locust (*Oedaleus senegalensis*). Global Locust Initiative international conference: Identifying the Institutional Framework and Opportunities to Influence Policy Change in Locust Research and Management. Tempe, AZ, USA
  
- 2017 Word M<sup>2\*</sup>, Le Gall M<sup>4</sup>, Manneh B<sup>1</sup>, Farington R<sup>1</sup>, Bèye A, **Cease AJ**. Connecting land use, soil, vegetation, and locust abundance in a Senegalese subsistence farming village. Entomological Society of America annual meeting, Denver, CO, USA.  

*-Mira Word received the best student presentation award for this talk*
- **Cease AJ**\* and Rivers A<sup>5\*</sup>. Launching the Global Locust Initiative: An organization to link researchers, governmental and non-governmental agencies, and farming communities to address and mitigate the effects of locust plagues. Entomological Society of America annual meeting, Denver, CO, USA.
- Le Gall M<sup>4\*</sup> and **Cease AJ**. Linking land use and the nutritional ecology of locusts: The case of the Senegalese locust (*Oedaleus senegalensis*). Entomological Society of America annual meeting, Denver, CO, USA.
- Overson RP<sup>5\*</sup>, Trumper E, Farington R<sup>1</sup>, Cespedes G, Frana J, Gutierrez A, Joaquin N, Le Gall M<sup>4</sup>, Learned J<sup>5</sup>, Maldonado C, Medina H, Ramirez W, Rendon M, Roca M, Shimura L, **Cease AJ**. The resurgence of the South American locust (*Schistocerca cancellata*): Understanding the nutritional ecology of marching locust nymphs. Entomological Society of America annual meeting, Denver, CO, USA.
- Diaz MI<sup>1</sup>, Farington RH<sup>1</sup>, Harrison JF, and **Cease AJ**. Water Restrictions and Macronutrient Level Intake of Locust. Experimental Biology, Chicago, IL, USA.
  
- 2016 **Cease AJ**\*, Elser JJ, Hadrich J, Robinson BE, Fenichel EF, Harrison JF. Locust migration in coupled natural human systems: connecting soil nitrogen, locust outbreaks, livelihoods, and livestock markets. International Congress of Entomology. Orlando, FL, USA
- Farington RH<sup>1\*</sup>, Diaz M<sup>1</sup>, Campbell J, Rogers SM<sup>5</sup>, Harrison JF, **Cease AJ**. Carbohydrate-biased diets may improve performance in arid environments. International Congress of Entomology. Orlando, FL, USA

- Farington RH\*, Rogers SM<sup>5</sup>, Learned J<sup>5</sup>, **Cease AJ**. How does water availability affect dietary macronutrients? School of Life Sciences Undergraduate Research symposium. Tempe, AZ, USA.
- Manneh B<sup>1\*</sup>, Learned J<sup>5</sup>, **Cease AJ**. Linking livestock grazing practices with the nutritional ecology of grasses and locusts in West Africa. School of Life Sciences Undergraduate Research symposium. Tempe, AZ, USA.
- 2014 **Cease AJ\***, Rogers SM, Dodgson T, Simpson SJ. Diet modulates gregarization in the Australian Plague Locust. Society for Integrative and Comparative Biology, Austin, TX.
- **Cease AJ\***, Fay M, Elser JJ, Harrison JF. Dietary phosphate strongly and nonlinearly affects performance of an omnivorous herbivore. Society for Integrative and Comparative Biology, Austin, TX.
- 2013 **Cease AJ\***, Harrison JF, Simpson SJ Elser JJ. Mongolian locusts may require balanced diets to develop migratory swarms. Australian Entomological Society annual meeting. Adelaide, South Australia
- **Cease AJ\***, Elser JJ, Hao S, Harrison J. Low plant nitrogen content and high population density enhance migratory characters in a polyphenic locust. Society of Integrative and Comparative Biology annual meeting. San Francisco, CA
- Baluch, DP, Traynor, K, **Cease, AJ\***, Coloumbe, M, Stout, V, Sweazea, K. Jumpstarting STEM Careers. Society of Integrative and Comparative Biology annual meeting. San Francisco, CA
- Dayger, CA\*, **Cease AJ**, Lutterschmidt, DI. Body condition modulates responses to capture stress and exogenous corticosterone in female red-sided garter snakes. Society of Integrative and Comparative Biology annual meeting. San Francisco, CA
- Harrison, JF\*, Water, JS, **Cease, AJ**, Vandenbrooks, JM, Callier, V, Klok, CJ, Shaffer, K, Socha, JJ How hoppers breath. Society for Integrative and Comparative Biology, San Francisco, CA.
- 2012 Harrison, JF\*, **Cease, AJ**, VandenBrooks, JM, Waters, JS, Klok, CJ, Callier, V. Patterns and mechanisms of air flow during abdominal pumping in the grasshopper, *Schistocerca americana*. Experimental Biology. San Diego, CA.
- 2011 **Cease AJ\***, Elser JJ, Hao S, Kang L, Harrison JF. Locusts prefer nitrogen-poor plants in overgrazed pastures. Society of Integrative and Comparative Biology annual meeting. Salt Lake City, UT.
- 2010 **Cease AJ\***, Elser J, Hao S, Kang L, Harrison, J. Nutrition- and density-dependent polyphenism in a non-model locust, the Chinese band-winged grasshopper *Oedaleus asiaticus*. Entomological Society of America annual meeting. San Diego, CA.
- Cease AJ\*, Elser JJ, Hao S, Kang L, Harrison JF. Searching for the key to locust outbreaks in the Inner Mongolia grasslands. American Association for the Advancement of Science annual meeting. San Diego, CA.
- **Cease AJ**, Elser JJ, Hao S, Kang L, Harrison JF\*. Grasshopper developmental plasticity in heavily-grazed Asian Steppe pastures. Society of Integrative and Comparative Biology annual meeting. Seattle, WA.
- **Cease AJ\***, Harrison JF, Hao S, Kang L, Elser JJ. Too much nitrogen? Host-plant N enrichment negatively impacts locust *Oedaleus asiaticus* performance. Ecological Society of America annual meeting. Pittsburgh, PA.
- 2009 **Cease AJ\***, Hao S, Kang L, Elser JJ, Harrison JF. High density and high nitrogen: A dual stressor for grasshoppers? Society of Integrative and Comparative Biology annual meeting. Boston, MA



- 2008            **Cease AJ\***, Albert T, VandenBrooks J, Davidowitz G, Harrison JF. The effects of different oxygen levels on size, growth, and development in the tobacco hornworm. Society of Integrative and Comparative Biology. San Antonio, TX
- 2005            **Cease AJ\***, Lutterschmidt DI, Mason R. The Role of Corticosterone in the Migration of Red-sided Garter Snakes. Oregon Chapter of The Wildlife Society and the Society for Northwestern Vertebrate Biology joint annual meeting. Corvallis, OR.
- 2004            Howard Hughes Medical Institute Summer Undergraduate Research Program Symposium. Oregon State University

## PROFESSIONAL SOCIETIES

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Entomological Society of America  
Ecological Society of America  
Society of Integrative and Comparative Biology  
American Association for the Advancement of Science  
Association for Women in Science  
Australian Entomological Society

## TEACHING AND MENTORING

### COURSES TAUGHT

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*Courses for which I have guest lectured are listed under service.*

**SOS=School of Sustainability; BIO=Biology**

Sustainable Ecosystems, SOS 326 – core track course for Sustainability undergraduate majors

- Taught in 2015, 2016, 2017, 2018

Sustainable Food and Farms, SOS 327 – core track course for Sustainability undergraduate majors

- Taught in 2016, 2017
- I worked with Dr. Hallie Eakin to develop a co-teaching approach that allowed us to integrate our strengths from the natural (me) and social (Hallie) sciences. For the years I taught this course, we alternated being the instructor on record for fall and spring semesters, but gave lectures and led activities in both sessions. In 2018 and 2019, I continued to give guest lectures in Hallie's course.

Synthesis for Sustainability, SOS 581 – required MA/MS course for Sustainability graduate students

- Taught in 2016, 2017, 2018

Locusts and Sustainability Lab, SOS/BIO 494

- Taught in 2017, 2018
- This is the only wet lab course offered by SOS (a wet lab is a laboratory where chemicals or biological matter are tested, requiring water, direct ventilation, etc.)

Animal Physiology Laboratory, BIO 361 – graduate teaching assistant

- Taught in 2008, 2009

Intro Biology Laboratory, BIO 100 – graduate teaching assistant

Vertebrate Biology Laboratory, Zoology 372 – core course for Zoology majors at Oregon State University

## MENTEES

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### POSTDOCTORAL RESEARCHERS

1. Dr. Marion Le Gall, Arizona State University. Nutritional ecologist with a specialization in integrated pest management (2017-present)
2. Dr. Stav Talal, Arizona State University. Insect physiologist with a focus on locust respirometry and nutrition. (2018-present) Advised by Dr. Jon Harrison, I am his secondary advisor.

### GRADUATE STUDENTS

#### *Advisor - current*

1. Douglas Lawton, PhD Candidate, Environmental Life Sciences, Arizona State University. Dissertation is focused on landscape and nutritional ecology of the Australian Plague Locust. Initiated Fall 2016. *First-generation college student*.
2. Deanna Zembzruski, PhD Student, Environmental Life Sciences, Arizona State University. Dissertation is focused on nutritional ecology and pathogen responses of the Migratory Grasshopper. Initiated Fall 2017.
3. Emmaline Gates, PhD Student, Environmental Life Sciences, Arizona State University. Dissertation is focused on nutritional ecology and management of the South American Locust. Initiated Fall 2019.
4. Jonah Brosemann, MS Student, Sustainability, Arizona State University. Thesis is focused on ecology and reproduction in the Senegalese Locust. Initiated Fall 2019. *First-generation college student*.

#### *Advisor - graduated*

5. Mira Word, Arizona State University. M.S. in Sustainability (completed May 2018) with a focus on agroecosystems in Senegal.
6. Colin Brown, Yale University. Master of Environmental Science (completed May 2015), co-advised by Dr. Eli Fenichel. Interactive effects of livestock grazing and precipitation on soil properties and capacity of plants and locusts to acquire nutrients. Current position: California Environmental Protection Agency testing sustainable pest control strategies

#### *Committee member - current:*

1. Andrew Burchill, ASU, School of Life Sciences, PhD (advised by Stephen Pratt and Ted Pavlic)
2. Nate Smith, ASU, School of Life Sciences, PhD (advised by Jennifer Fewell)
3. Jacob Youngblood, ASU, School of Life Sciences, PhD (advised by Mike Angilletta)
4. Ethan Baruch, ASU, School of Life Sciences, PhD (advised by John Sabo)

#### *Committee member - graduated:*

5. Svenja Wagner, ASU, School of Sustainability, MS (advised by Osvaldo Sala). May 2019
6. Benjamin MacNeille, ASU, School of Sustainability, MS student (advised by Dan Childers). May 2016
7. Maxwell Wilson, ASU, School of Life Sciences, PhD student (advised by Jingle Wu). May 2018

**Visiting scholar - former:**

1. Baoming Du, Visiting PhD scholar (2017-18) from Shanghai Jiao Tong University, Shanghai, China. Pursuing PhD in plant-insect interactions.

**UNDERGRADUATE AND HIGH SCHOOL STUDENTS MENTORED IN RESEARCH:**

**Student organization**

1. Faculty advisor for Transdisciplinary Undergraduate Research Network (TURN). A student-led organization dedicated to connect undergraduate researchers across all disciplines at ASU. Executive officers and founders are Ruth Farington (SOLS) and Kayna Lantz (SOS).

**Students mentored for one or more college semesters**

**\*denotes Barrett Honors Student**

**Current**

1. Natalia Thompson, Arizona State University. Studying how different agricultural practices influence the nutrient contents of plants. (2015-present)
2. Jonah Brosemann, Arizona State University. Studying the effects of water limitation on the survival and nutrition of locusts. Presented a research poster at the spring 2019 School of Life Sciences undergraduate research symposium. Graduating May 2019 and accepted into the Sustainability MS program to start in my lab in Fall 2019. (2017-present)
3. Ruth Farington, Arizona State University. Studying the importance of nutrient and water balance in arid-land locusts. ASU's School of Life Sciences Undergraduate Research Scholar award (2016-2017 academic year); ASU's School of Human Evolution and Social Change Undergraduate Research Award (\$1000) (2014-present)
4. Matt Moroneso, Arizona State University. Studying locust behavior and nutrition. (2018-present)
5. Dustin Grief\*, Arizona State University. Studying locust gut microbes and pathogens. (2018-present)
6. Alonso Beatty, Arizona State University. Studying how different agricultural practices influence the nutrient contents of plants. (2018-present)
7. Mario Antonio, Arizona State University. Studying how different agricultural practices influence the nutrient contents of plants. (2018-present)
8. Braedon Kantola, Arizona State University. Studying the importance of nutrient and water balance in arid-land locusts & Intern for the Global Locust Initiative (2018-present)
9. Teddy Gonzalez, Arizona State University. Studying the importance of nutrient and water balance in arid-land locusts & Intern for the Global Locust Initiative (2018-present)

**Previous**

10. Makenna Mecsey, Arizona State University. Studied locust feeding behavior. (2017-2018)
11. Balanding Manneh\*, Arizona State University. Interactions between land use and locusts in Senegal; Completed his honors thesis looking at the effects of nitrogen-fertilized grass on the egg production and flight muscle of South American Locusts. MasterCard Foundation Scholar. (2015-2018)
12. Ibraheim Ayub, Arizona State University. Studied how different agricultural practices influence the nutrient contents of plants. (2018)
13. Nidia Martinez, Arizona State University. Studied locust behavior and nutritional ecology. (2017-2018)

14. Grant Falvo, Arizona State University. Studied what institutions exist in the locust management space. (2017)
15. Julia Ramos, Arizona State University. Spanish expert; assisted with collaboration and communication with our South American partners. (2017-2018)
16. Allison Ochs, Mount Holyoke College. Visiting summer research assistant. Studied locust behavior and nutrition. (2017)
17. Wesley Groves, Arizona State University. Studying how different agricultural practices influence the nutrient contents of plants. (2017)
18. Michael Saban-Hutchinson, Arizona State University. Studied how different the nutrient contents of plants change across the Australian outback. (2017)
19. Kayna Lantz,\* Arizona State University. Honors project: Coupled Human and Natural Systems Research: A Transdisciplinary Approach for Sustainability Science (2015-2017)
20. Mildred Diaz, Northern Arizona University. American Physiological Society Integrative Organismal Systems Physiology Fellowship. Diet and water interactions in Australian plague locusts. Summer 2016.
21. Jordan Glass, Arizona State University. Plant-insect interactions and locust behavior. Went on to receive MS from the University of the Pacific, Stockton, CA; currently PhD student at Arizona State University (2016)
22. Ashley Sanders,\* Arizona State University. Honors thesis committee member. Honors thesis title: Peeing in the Pool: how aquatic insect excretion reflects and affects nutrient recycling in two desert streams. Successfully defended April 2016.
23. Lysiane Ruffe ISARA, an engineering school of agriculture, food science and environment studies in Lyon, France. International visiting scholars completing a 3-month internship in the Cease lab. (2015)
24. Caroline Dupuis. ISARA, an engineering school of agriculture, food science and environment studies in Lyon, France. International visiting scholars completing a 3-month internship in the Cease lab. (2015)
25. Enya Spanings, Chandler High School. First-place Science Fair Project titled: Effect of age on gregarious behavior in locusts. (2015)
26. Daphne Guo, Basis Chandler high school. Senior Research Project "Effect of soil and plant nutrient content on plague locust swarm patterns". Currently BSc student at Harvey Mudd. (2015)
27. Katherine Phillips. Arizona State University. Honors contracts for SOS 326, Sustainable Ecosystems. (2015)
28. Maria Eller. Arizona State University. Honors contracts for SOS 326, Sustainable Ecosystems. (2015)
29. Annika Andersen. Arizona State University. Honors contracts for SOS 326, Sustainable Ecosystems. (2015)
30. Chris Bowman, Arizona State University. Undergraduate research technician. Animal husbandry and independent project studying the historical interactions of land use and locust outbreaks. (2014)
31. Gaëlle Caron, ISARA, an engineering school of agriculture, food science and environment studies in Lyon, France. International visiting scholars completing a 3-month internship in the Cease lab. (2014)
32. Mathieu Peillex, ISARA, an engineering school of agriculture, food science and environment studies in Lyon, France. International visiting scholars completing a 3-month internship in the Cease lab. (2014)
33. Jinoh Lee, and Joseph Park, Farin Shiehzhadegan, Phoenix-area high school students. Assisted with research experiments looking at the effects of density and nutrition on swarming locusts. Gained experience working in a university lab and as part of a research team. (2014)
34. Taynä Olímpia, Arizona State University. International exchange student from Brazil. The effects of nutrition on wing size in the Mongolian locust. (2014)
35. Teja Peele, Arizona State University. Undergraduate research credit. Trade-offs between reproduction and flight muscle development in field populations of the Chinese band-winged grasshopper. (2010-2012)
36. Adam House, Arizona State University. Undergraduate research assistant. Functional morphology of grasshopper trachea. (2010-2012)

37. Marielle Mori, Arizona State University. Host-plant quality effects on locust migratory polyphenism. (2010-2011)
38. Danielle Niren, Arizona State University. School of Life Sciences Undergrad Research program (SOLUR; supported in part by HHMI) program. Host-plant quality effects on locust migratory polyphenism; (2010-2011)
39. Jennifer Esman, Arizona State University. Senior thesis on the physiological trade-offs between two locust phenotypes; followed by a field component (Inner Mongolia Grassland Ecological Research Station) REU supplement to NSF DEB-0618193 (2010)
40. Yuan Kong, Institute of Zoology, Chinese Academy of Sciences summer intern. Field study (Inner Mongolia Grassland Ecological Research Station) on the survival rate of juvenile grasshoppers under different feeding regimes (2009-2010)
41. Zhantou Fan, Institute of Zoology, Chinese Academy of Sciences summer intern. Field study (Inner Mongolia Grassland Ecological Research Station) on grasshopper gregarious behaviour. (2009-2010)
42. Colleen Ford, Arizona State University. REU supplement to NSF DEB-0618193. Field study (Inner Mongolia Grassland Ecological Research Station) on the host-plant preferences of a Chinese band-winged grasshopper. (2009-2010)

## SERVICE

### SCHOOL OF SUSTAINABILITY SERVICE

2018-present	Sustainability Undergraduate Research Experiences (SURE) committee (ASU; current)
2018-present	ASU Wrigley Institute's Global Council (ASU; current)
2014-2018	School of Sustainability Undergraduate Committee (ASU)
2019	Guest lecturer for Sustainable Food and Farms (SOS 327)
2018	Delivered "First Lecture" at School of Sustainability undergraduate camp, Camp Friendly Pines, Prescott, AZ
-	Guest lecturer for Research Design & Methods for Sustainability (SOS 520)
-	Guest panelist for Ecosystem Integrity and Sustainability panel (SOS 510)
-	Guest lecturer for ASU Prep Academy High School sustainability course
-	Guest lecturer for Exploring Sustainability Research (SOS 294)
2017	Guest lecturer for Perspectives on Sustainability (SOS 510)
-	Guest lecturer for Grand Challenges in Environmental Life Science (ELS 501)
-	Guest lecturer for Sustainable Food and Farms (SOS 327)
-	Panel member for Global Institute of Sustainability Proposal Team's workshops: "NSF CNH grant applications" & "Talking with program officers"
-	Led booth on "Locusts and Sustainability" for the School of Sustainability's tent – ASU Homecoming
-	Gave seminar for ASU's Sustainability Show and Tell lunch series on research trip to Bolivia
-	Gave seminar for ASU Global Institute of Sustainability's Research Operations meeting
2016-2017	Committee member for School of Sustainability, ASU Food Systems faculty search
2016	Panelist for ASU's School of Life Sciences Undergraduate Research class panel on international outreach

- Guest lecturer for Research Design & Methods for Sustainability (SOS 520)
- Guest lecturer for Food System Sustainability (SOS 117)
- Guest lecturer for Grand Challenges in Environmental Life Science (ELS 501)
- Guest lecturer for Evolutionary Ecology (BIO 522/EVO 601)
- 2015 Guest lecturer for Research Design & Methods for Sustainability (SOS 520)
- Guest lecturer for Sustainable Food and Farms (SOS 327)
- 2014 Guest lecturer for Evolutionary Ecology (BIO 522/EVO 601)
- Guest lecturer for Research Design & Methods for Sustainability (SOS 520)
- Guest panelist for Community of Scholars (SOS 589)
- 2007 Guest lecturer, Introduction to Sustainability and International Opportunities (ASU 101).  
Arizona State University

## ARIZONA STATE UNIVERSITY SERVICE

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### Professional service

- 2018 Panelist for “Women Rock STEM: A Panel Discussion”, hosted by the Committee for Campus Inclusion in conjunction with ASU Women’s HERstory Month
- 2017 Panel member for ASU’s Office of Knowledge, Enterprise, and Development Funding success skills series (fs3): International Proposals and Programs. Mar. 28, 2017
- 2016 Panelist for Association for Women in Sciences workshop on postdocs
- Panelist for ASU’s Social Insect Research group panel on new faculty members
- 2015-2016 ASU Food Security Initiatives committee (year-long commitment to 5-member think tank to move ASU into a more prominent position to lead food systems and food security research and action)
- 2008-2009 Planning Committee Member for ASU’s Darwifest. Co-organized a series of public outreach events to commemorate Darwin’s 200<sup>th</sup> birthday (<http://darwin.asu.edu/events.php>)

### Outreach

- 2015-present Hosted tours of Locust Rearing Facilities for School of Sustainability guests (*e.g., Kofi Appenteng President, Africa-America Institute, Board Member, Ford Foundation; Udi Lazimy Global Plant Sourcing Lead, JUST (formerly Hampton Creek); David Lundstrom COO, Wilson Produce; James Martin Director of Sustainability, Wilson Produce; and others*)
- 2014-present Gave over 30 interviews and/or talks about ASU research for a general audience (see “interviews about my research program” section below for examples and links)
- 2008-present Volunteer scientist for ASU’s ‘Ask a Biologist’ program ([askbiologist.asu.edu](http://askbiologist.asu.edu))
- 2019 Featured in the Earth Day documentary “24 Hours of Sustainability” presented by Wells Fargo and hosted by ASU, based on a day of interviews in my lab (event website: [https://sustainability.asu.edu/24-hours/?utm\\_source=video-view&utm\\_content=slash-24](https://sustainability.asu.edu/24-hours/?utm_source=video-view&utm_content=slash-24))
- 2018 Guest ‘lightening talk’ presenter at Swette Center for Sustainable Food Systems, Future of Food Series. ASU Washington DC Building
- 2017 Guest lecturer for Ecology Explorers teachers’ workshop (a program that links Phoenix-area K-12 teachers and students with scientific research opportunities)

- Delivered Seminar on my team’s research for ASU’s Department of Animal Care and Technology seminar series
- 2016 Appeared live in local TV studio: ABC 15 live morning news segment to introduce ASU’s Rescued Food Feast sustainability event
- 2008 Volunteer Scientist, “SOLS Takes a Hike” community event. School of Life Sciences, ASU
- Judge, Arizona Science and Engineering Fair
- Wrote three articles on ASU research for a public audience:
  - [1] Good science takes a village, in *Arizona State University SOLS Magazine* (2008) Vol.4 No.2
  - [2] Taking a dream across the Atlantic, in *Arizona State University SOLS Magazine* (2008) Vol. 4 No. 2
  - [3] Engineers use ‘HUNTING’ skills to seek out bio-inspired solutions, in *Arizona State University Insight Magazine*
- 2007 Volunteer Scientist for Boyce Thompson Arboretum Bio Blitz Intensive Ecological Survey, Arizona

## NATIONAL AND INTERNATIONAL SERVICE

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### Professional service

- 2017-present Founding Director, Global Locust Initiative (GLI), Arizona State University (locust.asu.edu)  
*The GLI is a member-based organization with three pillars: Research, Network, and Solutions.*
- 2010-present Manuscript, Book Chapter, and Proposal Referee: Journals: Agricultural and Forest Entomology, Animal Behaviour, Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology, Ecological Entomology, Entomologia Experimentalis et Applicata, Environmental Entomology, Functional Ecology, Journal of Animal Ecology, Journal of Arid Environments, Journal of Comparative Physiology – B, Journal of Environmental Management, Journal of Experimental Biology, Journal of Integrative Agriculture, Journal of Neurophysiology, Journal of The Royal Society Interface, Nature, Nature Scientific Reports, Oecologia, Psyche Journal of Entomology, Rangeland Ecology and Management, Tropical Zoology; Books: Blackwell publishing; Proposals: NSF
- 2019 Co-organized workshop at International Congress of Orthopterology “Locust and Grasshopper Data Management in the Information Age”, with panellist participants from 8 countries
- 2018 Co-organized international conference at ASU “Identifying the Institutional Framework and Opportunities to Influence Policy Change in Locust Research and Management”, which attracted 40 participants from 27 institutions, 14 countries, and 6 continents
- External referee for U.S. Department of Agriculture’s Agricultural Research Agency (USDA ARS) promotion review of senior research scientist
- 2016 Co-Organizer for 2016 International Congress of Entomology symposium “From Molecules to Management: New Tools for Understanding Locust Swarms across Species and Research Disciplines”
- 2015 Co-Organizer for 2015 Ecological Society of America symposium “Coupled natural and human systems at the frontier of ecological research”
- 2014 Organizer for Woodstoich III, Sydney, Australia: an international workshop connecting ecological stoichiometry, ecosystem nutrient cycling, and organismal physiology.

### Outreach

- 2019            Responded to media requests on the Desert Locust upsurge in the Red Sea region (Arab News: <http://www.arabnews.com/node/1460466/saudi-arabia>; The Media Line: <https://themedialine.org/news/speak-of-the-bible-locust-swarms-imminent-in-egypt-saudi-arabia/>)

## **INTERVIEWS AND PUBLIC PRESS ABOUT MY RESEARCH PROGRAM**

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- [37] Cease Lab feature on ASU and Wells Fargo's Earth Day documentary "24 Hours of Sustainability" <https://vimeo.com/327834043/78b0c44aa5>
- [36] ASU KEDtalk: Plagued with questions <https://research.asu.edu/stories/asu-kedtalk-plagued-questions>
- [35] Paula on Point "A Scientist Circles Back to the Farm" <https://paulaonpoint.com/2018/10/16/a-scientist-circles-back-to-the-farm/>
- [34] ASU Now "Solving a pest problem that's been plaguing us" <https://asunow.asu.edu/20180413-global-engagement-asu-global-locust-initiative-conference>
- [33] SENASA, Argentina "International workshop on locusts in Córdoba" <http://www.senasa.gov.ar/senasa-comunica/noticias/taller-internacional-sobre-langostas-en-cordoba>
- [32] SENASAG, Bolivia "International experts dictate workshop on locust plague control in Santa Cruz" <http://eju.tv/2017/04/expertos-internacionales-dictan-taller-sobre-el-control-de-plaga-de-langostas-en-santa-cruz/>
- [31] ASU News "ASU locust team offers a helping hand" [asunow.asu.edu/20160714-global-engagement-asu-locust-experts-offer-helping-hand](http://asunow.asu.edu/20160714-global-engagement-asu-locust-experts-offer-helping-hand) (July 14, 2016)
- [30] SENASA "Workshop on bioecology, impact, and management of locusts and grasshoppers" <http://www.senasa.gov.ar/senasa-comunica/noticias/taller-sobre-bioecologia-impacto-y-manejo-de-langostas-y-tucuras> (May 6, 2016)
- [30] Sustainability @ ASU magazine: Cover feature. <https://sustainability.asu.edu/resources/asus-sustainability-2015-highlights/> (June 2016)
- [29] Motherboard "How to stop a plague of locusts" <http://motherboard.vice.com/read/how-to-stop-a-plague-of-locusts> (Jan 28, 2016)
- [28] Australian Broadcasting Corporation "Australian locust activity under the microscope of US researchers" <http://www.abc.net.au/news/2015-11-16/australian-locust-activity-under-the-microscope-of-us-researcher/6944710> (Nov 15, 2015)
- [27] ASU News, "ASU scientist who studies locust swarms named to Popular Science's Brilliant 10": <https://asunews.asu.edu/20150923-arianne-cease-locust-lab> (Sep 23, 2015)
- [26] Popular Science magazine, "Brilliant 10: Arianne Cease prevents biblical plagues with modern data": <http://www.popsci.com/brilliant-10-arianne-cease-prevents-biblical-plagues-with-modern-data> (Sep 23, 2015)
- [25] Ask a Biologist, "On the lookout for locusts": <https://askabiologist.asu.edu/explore/lookout-locusts> & <https://askabiologist.asu.edu/career-path-arianne-cease> (Sep 2015)
- [24] Ask a Biologist, podcast 79: [https://askabiologist.asu.edu/explore/watch\\_listen](https://askabiologist.asu.edu/explore/watch_listen) (Sep 2015)
- [23] The State Press, "ASU professor has love bug for locusts" <http://www.statepress.com/article/2015/10/asu-locust-researcher-gains-national-recognition-accolades> (Sep 2015)
- [22] ASU News, "Study finds new link between environment, urban diets" <https://asunews.asu.edu/20150409-environment-urban-diet> (April 2015)
- [21] The Science Show with Robyn Williams. ABC Australia radio interview. July 26, 2014 <http://www.abc.net.au/radionational/programs/scienceshow/curious-link-between-swarming-locusts-and-agriculture/5624398>
- [20] Far Eastern Agriculture Volume 30, Issue 5, page 35: [http://issuu.com/alaincharles/docs/feag\\_5\\_2013\\_final/1?e=4518041/5722483](http://issuu.com/alaincharles/docs/feag_5_2013_final/1?e=4518041/5722483)



- [19] McGill University: McGill’s Robinson to help explore sustainable ways to manage locust outbreaks worldwide: <http://publications.mcgill.ca/reporter/2013/10/mcgills-robinson-to-help-explore-sustainable-ways-to-manage-locust-outbreaks-worldwide/>
- [18] Yale University: Linking land use and locusts: <http://environment.yale.edu/news/article/linking-land-use-and-locusts/>
- [17] Colorado State University: Agricultural Economist to help explore sustainable ways to manage locust outbreaks worldwide: <http://www.today.colostate.edu/story.aspx?id=9166>
- [16] ASU Press Release: <https://asunews.asu.edu/20130930-living-with-locusts>
- [15] New South Wales Country Hour by Michael Condon, Australian Broadcasting Corporation (Sept 23, 2013 radio interview): <http://www.abc.net.au/news/2013-09-17/nsw-locust-pastures-1709/4963380>
- [14] Sydney Morning Herald: <http://www.smh.com.au/national/education/keeping-locusts-at-bay-20130905-2t6rf.html>
- [13] ASU Science and Technology News, “Overgrazed grasslands tied to locust outbreaks.” [https://asunews.asu.edu/20120124\\_locust\\_Science](https://asunews.asu.edu/20120124_locust_Science)
- [12] Science Magazine Podcast: <http://www.sciencemag.org/content/335/6067/467/suppl/DC2>
- [11] BBC World Service (live interview): <http://www.bbc.co.uk/programmes/p00n0f3j>
- [10] New York Times Green Blog: <http://green.blogs.nytimes.com/2012/02/01/for-locusts-overgrazed-land-is-a-treat/>
- [9] Deutschlandfunk (radio interview): <http://www.dradio.de/dlf/sendungen/forschak/1662971/>
- [8] ScienceNow: <http://news.sciencemag.org/sciencenow/2012/01/slideshow-low-quality-plants-pow.html?ref=hp>
- [7] This week in SCIENCE: [http://www.ariannecease.org/wp-content/uploads/2012/01/ThisWeekinSCIENCE\\_fullpdf1.pdf](http://www.ariannecease.org/wp-content/uploads/2012/01/ThisWeekinSCIENCE_fullpdf1.pdf)
- [6] AAAS News: [http://www.aaas.org/news/releases/2012/0126sp\\_locust.shtml](http://www.aaas.org/news/releases/2012/0126sp_locust.shtml)
- [5] Voice of America: <http://www.voanews.com/english/news/asia/east-pacific/Overgrazing-Linked-to-Ravenous-Locusts-138774859.html>
- [4] Down to Earth magazine: <http://www.downtoearth.org.in/content/locust-repellents>
- [3] Time Magazine: <http://www.ariannecease.org/wp-content/uploads/2012/02/TimeMagScience.pdf>
- [2] Science and Development Network: <http://www.scidev.net/en/agriculture-and-environment/news/nitrogen-fertiliser-could-prevent-locust-swarms-.html>
- [1] ASU Science and Technology News, “Grasshopper swarms take young researcher to China.” [http://asunews.asu.edu/20101109\\_Grasshoppers\\_Cease](http://asunews.asu.edu/20101109_Grasshoppers_Cease)

**ADDITIONAL MEDIA COVERAGE:**

- USA Today
- AAAS News,
- Le Figaro
- Science Daily
- Mother Nature Network
- Science Codex
- Labspaces
- White Mountain Conservation League
- NSF.gov News
- NSF Science360
- CHANS-Net
- AllAfrica.com
- Agence France-Presse
- France24
- Brunei Times
- ReliefWeb
- China News Center
- Calgary Herald
- i09.com
- Radio New Zealand
- Ebiotrade
- Xilingol Vocational College, Inner Mongolia
- China, News, “美国亚利桑那大学Arianne Cease博士来我院访问”[http://www.xglvc.cn/shownews.asp?id=593;](http://www.xglvc.cn/shownews.asp?id=593)
- Institute of Plant Protection, Chinese Academy of Agricultural Sciences ([http://www.ippcaas.cn/Html/2012\\_08\\_07/2585\\_11735\\_2012\\_08\\_07\\_11769.htm](http://www.ippcaas.cn/Html/2012_08_07/2585_11735_2012_08_07_11769.htm))

