

Adrian A. Smith

North Carolina Museum of Natural Sciences
11 W. Jones Street
Raleigh, NC 27601
Email: Adrian.Smith@naturalsciences.org
Website: adrianalansmith.com

Appointments

- 2016 - Current **North Carolina Museum of Natural Sciences**
Head, Evolutionary Biology & Behavior Research Lab. Raleigh, NC
- 2016 - Current **North Carolina State University**
Research Assistant Professor, Department of Biological Sciences. Raleigh, NC

Education

- 2006 - 2011 **Arizona State University**
School of Life Sciences, Center of Social Dynamics and Complexity, Tempe, AZ
Ph. D., Biology; December 2011
Dissertation: “The Regulation of Worker Reproduction in the Ant *Aphaenogaster cockerelli*”
Major Advisors: Dr. Bert Hölldobler and Dr. Jürgen Liebig
- 2002 - 2006 **Florida State University**
Department of Biological Sciences, Tallahassee, FL
B. S., Biological Sciences

Experience & Training

- 2018 2018 Filmmaker Labs Fellow; International Wildlife Film Festival, Filmmaker Labs
Missoula, Montana
- 2011 - 2015 Postdoctoral Research Associate
Supervisors: Dr. Andrew V. Suarez and Dr. Lawrence M. Hanks
Dept. of Entomology, University of Illinois at Urbana-Champaign
- 2009 Ant Course, California Academy of Sciences
Portal, Arizona
- 2009 Biomimicry and Design Workshop, The Biomimicry Guild (now Biomimicry 3.8)
Playa Uvita, Costa Rica
- 2003 - 2006 Laboratory Assistant/ Independent Researcher
Supervisor: Dr. Walter R. Tschinkel
Dept. of Biological Sciences, Florida State University
- 2005 Field Research Assistant

Supervisors: Dr. Blaine J. Cole and Dr. Diane C. Wiernasz
Dept. of Biology and Biochemistry, University of Houston, Houston, TX

Professional Articles [peer reviewed, unless noted ^ as editorial review; *undergraduate mentee]

- In review **Smith, A. A.**, Harrison, J. S. Jumping performance and behavior of the globular springtail *Dicyrtomina minuta*. *Integrative Organismal Biology*
- In revision Ruzi, S. R., **Smith, A. A.**, Lee, N. M. Scientists communicating biodiversity research through YouTube videos boosts competence perceptions and humanizes science. *Public Understanding of Science*
- 32 Oliveira, F. G. L. & **Smith, A. A.** 2024. A morphofunctional study of the jumping apparatus in globular springtails. *Arthropod Structure & Development* 79: 101333
- 31 Bertone, M. A, Gibson, J. C., Seago, A. E., Yoshida, T., **Smith, A. A.** 2022. A novel power-amplified jumping behavior in larval beetles (Coleoptera: Laemophloeidae). *PLoS ONE* 17: e0256509
- 30 Ruzi, S. A., Lee, N. M., **Smith, A. A.** 2021. Testing how different narrative perspectives achieve communication objectives and goals in online natural science videos. *PLoS ONE* 16: e0257866
- 29 Halawani, O., Dunn, R. R., Grunden, A. M., **Smith, A. A.** 2020. Lethal and antimicrobial responses to bacterial exposure across ant species. *PeerJ* 8:e10412
- 28 **Smith, A. A.** 2020. Broadcasting ourselves: opportunities for researchers to share their work through online video. *Frontiers in Environmental Science* 8:150. DOI: 10.3389/fenvs.2020.00150
- 27 **Smith, A. A.** 2019. Bites, Camera, Action... Filming my work with ants has changed my science-communication tactics. *Nature* 576: 327-328.^
[Careers column; Online title: *The ant-bite video that changed my approach to science communication*]
- 26 **Smith, A. A.** 2019. Prey specialization and chemical mimicry between *Formica archboldi* and *Odontomachus* ants. *Insectes Sociaux*. 66: 211-222.
- 25 Larabee, F., **Smith, A. A.**, Suarez, A. 2018. Snap-jaw morphology is optimized for high-speed power amplification in the Dracula ant, *Myrmium camillae*. *Royal Society Open Science*. 5:181447.
- 24 **Smith, A. A.**, Suarez, A. V., Liebig, J. L. 2018. Queen pheromones out of context: a comment on Holman. *Behavioral Ecology* 29: 1212.^
[Invited commentary on Holman, L. 2018. *Queen pheromones and reproductive division of labour: a meta-analysis*]
- 23 **Smith, A. A.** 2018. Use video to cut through jargon. *Nature* 556: 397-398.^
[Careers feature column; Online title: *YouTube Your Science*]
- 22 Penick, C. A., Halawani, O.*, Pearson, B.*, López-Uribe, M. M., Mathews, S., Dunn, R. R., **Smith, A. A.** 2018. External immunity in ant societies: Sociality and colony size do not predict investment in antimicrobials. *Royal Society Open Science* 5:171332.

- 21 Dunn, R. R., Duggan, G., **Smith A. A.** Ants, art, and science. *SciArt Magazine* Feb. 2018. Online: <https://www.sciartmagazine.com/collaboration-ants-art-and-science.html> ^ [Reprinted in May-June 2018 issue of *American Scientist*]
- 20 **Smith, A. A.**, Liebig, J. 2017. The evolution of cuticular fertility signals in eusocial insects. *Current Opinion in Insect Science* 22: 79-84.
- 19 Fox, E. G. P., **Smith, A. A.**, Gibson, J. C., Solis, D. R. 2017. Larvae of trap-jaw ants, *Odontomachus* LATREILLE, 1804 (Hymenoptera: Formicidae): morphology and biological notes. *Mymecological News* 25: 17-28.
- 18 **Smith, A. A.**, Millar, J. G., Suarez, A. V. 2016. Comparative analysis of fertility signals and sex-specific cuticular chemical profiles of *Odontomachus* trap-jaw ants. *Journal of Experimental Biology* 219: 419-430. [Featured article by Inside JEB]
- 17 O'Fallon, S.*, Suarez, A. V., **Smith, A. A.** 2016. A comparative analysis of rapid antennation behavior in four species of *Odontomachus* trap-jaw ants. *Insectes Sociaux* 63: 265-270.
- 16 Penick, C. A. and **Smith, A. A.** 2015. The true odor of the odorous house ant. *American Entomologist*. 61: 127-128.
- 15 **Smith, A. A.**, Millar, J. G., Suarez, A. V. 2015. A social insect fertility signal is dependent on chemical context. *Biology Letters*, 11: 20140947. [Cover article]
- 14 Scholes, D. R., Suarez, A. V., **Smith, A. A.**, Johnston, J. S., Paige, K. N. 2014. Organ-specific patterns of endopolyploidy in the giant ant *Dinoponera australis*. *Journal of Hymenoptera Research*, 37: 113-126.
- 13 **Smith, A. A.**, Vanderpool, W.*, Millar, J. G., Hanks, L. M., Suarez, A. V. 2014. Conserved male-specific cuticular hydrocarbon patterns in the trap-jaw ant *Odontomachus brunneus*. *Chemoecology*, 24: 29-34.
- 12 **Smith, A. A.**, Millar, J. G., Hanks, L. M., Suarez, A. V. 2013. A conserved fertility signal despite population variation in the cuticular chemical profile of the trap-jaw ant *Odontomachus brunneus*. *Journal of Experimental Biology*, 216: 3917-3924.
- 11 Penick, C. A., Copple, R. N.*, Mendez, R. A., **Smith, A. A.** 2012. The role of anchor-tipped larval hairs in the organization of ant colonies. *PLoS ONE*, 7: e41595.
- 10 **Smith, A. A.**, Millar, J. G., Hanks, L. M., Suarez, A. V. 2012. Experimental evidence that workers recognize reproductives through cuticular hydrocarbons in the ant *Odontomachus brunneus*. *Behavioral Ecology and Sociobiology*, 66: 1267-1276.
- 9 **Smith, A. A.**, Overson, R. P., Hölldobler, B., Gadau, J., Liebig, J. 2012. The potential for worker reproduction in the ant *Aphaenogaster cockerelli* and its absence in the field. *Insectes Sociaux*, 59: 411-416.
- 8 **Smith, A. A.**, Hölldobler, B., and Liebig, J. 2012. Queen specific signals and worker punishment in the ant *Aphaenogaster cockerelli*: the role of the Dufour's gland. *Animal Behaviour*, 83: 587-593. [Featured article]

- 7 **Smith, A. A.**, Hölldobler, B., and Liebig, J. 2011. Reclaiming the crown: queen to worker conflict over reproduction in *Aphaenogaster cockerelli*. *Naturwissenschaften*, 98: 237–240. [Cover article]
- 6 **Smith, A. A.** and Fischer, H. 2011. Innovating from life. In: *The Business of Sustainability: Trends, Policies, Practices, and Stories of Success*, ed. S. G. McNall, J. C. Hershauer, and G. Basile. Santa Barbara, CA: Praeger, pp. 313-328. ^
- 5 Holbrook, C. T., Clark, R. M., Moore, D., Overson, R. P., Penick, C. A., **Smith, A. A.** 2010. Social insects inspire human design. *Biology Letters*, 6: 431-433. ^
- 4 Cole, B. J., **Smith, A. A.**, Huber, Z. J., and Wiernasz, D. C. 2010. The structure of foraging activity in colonies of the harvester ant, *Pogonomyrmex occidentalis*. *Behavioral Ecology*, 21: 337-342.
- 3 **Smith, A. A.**, Hölldobler, B., and Liebig, J. 2009. Cuticular hydrocarbons reliably identify cheaters and allow enforcement of altruism in a social insect. *Current Biology*, 19, 79-81.
- 2 **Smith, A. A.**, Hölldobler, B., and Liebig, J. 2008. Hydrocarbon signals explain the pattern of worker and egg policing in the ant *Aphaenogaster cockerelli*. *Journal of Chemical Ecology*, 34: 1275-1282.
- 1 **Smith, A. A.** and Haight, K. L. 2008. Army ants as research and collection tools. *Journal of Insect Science*, 8: 71

Popular Articles

- 1 **Smith, A. A.** 2021. A Sting of Fire. *Wildlife in North Carolina*, March/April, 2021: 20-25.

Science Media Production

Online Video **Ant Lab [YouTube Channel](#)** – 230,000+ subscribers; 41,000,000+ views
100+ video uploads – ongoing since 2009

Television **SciNC – PBS-NC** – segment story writer/director/producer
2023 season – 5 segments
 Original broadcast air date: September, 2023

2022 season – 4 segments
 Original broadcast air date: September, 2022

Fall 2021 season – 5 segments.
 Original broadcast air dates: October 7th, 2021 – Nov 4th, 2021

Spring 2021 season - 9 segments.
 Original broadcast air dates: May 5th, 2021 – June 30th, 2021

Off The Air – Adult Swim
 Season 12, episode 44 “Bugs” – *Bugs Fly* w/ Tomer Baruch – Sept. 12th, 2022

Podcast **Age of Discovery podcast**

An audio show I created and published from 2013-2015 featuring in-depth interviews with biologists about their personal academic histories. Freely distributed online and through iTunes. (~90,000 lifetime plays)

Teaching Experience

Course Instruction and design

- 2018 - current **BIO/PSC 592 Creative Media Production for Scientists** (Instructor and Curriculum Creator)
Department of Biological Sciences, North Carolina State University
- 2017 **BSC/ARC/IPGE 295 Biologically Inspired Design** (Lead Instructor and Curriculum Creator)
Department of Biological Sciences & School of Architecture, North Carolina State University
- 2015 **Ant Course 2015**, California Academy of Sciences field course, Portal, AZ (Outreach instructor, digital multimedia). [*Worked with 34 graduate and professional students to create and publish research and outreach videos.*]
- 2011 - 2012 **Biology for Biomimics**, online (Lead Instructor and Curriculum Creator)
The Biomimicry Professional Certification Program, The Biomimicry Institute (now Biomimicry 3.8). [*Online live and pre-recorded lectures with 12 professional (masters-level) students, accompanied by discussions and coursework through the Moodle platform.*]
- 2011 **BIO/IND 494/598 Biologically Inspired Design** (Lead Instructor and Curriculum Creator)
School of Life Sciences & The Design School, Arizona State University
[*3 credit hour face-to-face course that I designed from scratch. 23 junior and senior undergraduate and 3 graduate students from design, biology, and engineering.*]

Assistantships and Laboratory Instruction

- 2009 - 2011 **IND/GRA/MGT 464, Collaborative Design and Development I & II** (Teaching Assistant)
InnovationSpace, The Design School, Arizona State University
- 2008 **BIO 201, Human Anatomy and Physiology I** (Lab Instructor). School of Life Sciences, Arizona State University
- 2007 **BIO 187, General Biology I** (Lab Instructor). School of Life Sciences, Arizona State University
- 2006 **BIO 100, The Living World** (Lab Instructor). School of Life Sciences, Arizona State University

Guest Lectures

- 2014, 2015, 2017 **ENV 394 Science Communication: The art and practice of science storytelling**. Biology, Northern Kentucky University
- 2016 **NCSU Library Workshop: Promote Your Research using Video**. North Carolina State University libraries.
- 2016 **BIO592 Science in the Public and Professional Sphere**. Biology, North Carolina State University

- 2015 **ART 335 & 445 Photography II & III.** Visual & Performing Arts Division, Earlham College
- 2014 **IB 535, Biology and Tech Innovation.** Integrative Biology, University of Illinois at Urbana-Champaign. Online course.
- 2013 & 2014 **ENG 333, Creativity, Innovation, and Vision.** Engineering, University of Illinois at Urbana-Champaign
- 2013 **IB/MATH 299, BioMath.** Integrative Biology, University of Illinois at Urbana-Champaign
- 2013 **IB 329, Animal Behavior.** Integrative Biology, University of Illinois at Urbana-Champaign
- 2013 **IB 109, Insects and People.** Integrative Biology, University of Illinois at Urbana-Champaign
- 2012 **IB 445, Chemical Ecology.** Integrative Biology, University of Illinois at Urbana-Champaign

Teaching Conferences

- 2011 Biology + Design. Biomimicry Education Summit. Cleveland, OH. (*invited panelist*)
- 2011 Presentation: *Biology into design module: self-organization and group behavior.* Biomimicry in Higher Education Webinar. The Biomimicry Institute.
- 2010 Presentation: *Biomimicry in a new product development classroom.* Biomimicry Education Summit. San Francisco, CA. (*invited speaker*)
- 2009 Biomimicry Education Summit. Jackson Hole, WY.

Mentorship

Undergraduate Research Publications

- 2016 - 2017 Bria Pearson & Omar Halawani, North Carolina State University; **co-authorship** to publication 22 above.
- 2014 - 2015 Sean O'Fallon: Undergraduate, University of Illinois; **first-authored** publication 16 above.
- 2013 Anne Curé: Undergraduate, University of Illinois; **acknowledged contribution** to publication 14 above.
- 2012 - 2013 Whitney Vanderpool: Undergraduate, University of Illinois; **co-authorship** of publication 12 above.
- 2012 Francisca Casas: Undergraduate, University of Illinois; **acknowledged contribution** to publication 11 above.
- 2011 R. Neal Copple: Undergraduate, Arizona State University; **co-authorship** of publication 10 above.
- 2010 James Garcia: Undergraduate, Arizona State University; **acknowledged contribution** to publication 6 above.

Facilitation of Undergraduate Research Grants

- 2019 Undergraduate Research Grant Award, Office of Undergraduate Research, NCSU. Awarded to Daniel Faircloth - \$500

- 2016 - 2017 Undergraduate Research Grant Award, Office of Undergraduate Research, NCSU. Awarded to Omar Halawani - \$1,000
- 2016 Summer Office of Undergraduate Research (OUR), Office of Undergraduate Research, NCSU. Awarded in support of Bria Pearson & Omar Halawani - \$2,000
- 2016 Support for Undergraduate Research Experiences (SURE), Department of Biological Sciences, NCSU. Awarded in support of Omar Halawani - \$1,000

Post-doctoral Research Grants

- 2019-2022 Postdoctoral Fellowship in Biology, National Science Foundation. Awarded to Selina Ruzi

Graduate Student Direct Advisment

- 2017 - 2019 Omar Halawani, M.S. Biology program, North Carolina State University

Research Grants and Awards

- 2022 - Current PI - NSF SoS:DCI – Award number 2219533, “Testing Strategies and Impacts of Communicating the Value of Museum Biological Collections”, \$276,853
- 2018 Stinger Award – 2018 YouTube Your Entomology Contest, Entomological Society of America
- 2016 - 2018 PI - “Finding the next antibiotics: Putting evolutionary theory into practice”, TriCEM Seed Research Grant, \$20,000
- 2017 Teaching grant - CUREs (Course-based Undergraduate Research Experiences) award, NCSU Office of Undergraduate Research, \$1,250
- 2016 Early Career Professional Outreach and Public Engagement Award, Entomological Society of America
- 2015 Stinger Award – 2015 YouTube Your Entomology Contest, Entomological Society of America
- 2014 Stinger Award – 2014 YouTube Your Entomology Contest, Entomological Society of America
- 2012 - 2014 Research Grant, Pest Management Foundation, National Pest Management Association, \$5,000
- 2012 George C. Eickwort Research Award - North American Section – International Union for the Study of Social Insects, \$1,000
- 2011 Profiled as an “outstanding graduate student” by Graduate College, ASU
- 2010 1st Place & Best of Show, Creative Crafts – Metal working (zinc cast of Harvester ant nest), Arizona State Fair, \$5
- 2010 NSF- Animal Behavior. Social Biomimicry: Conference on Insect Societies and Human Design. *One of six conference organizers* (PI – Jennifer Fewell), \$16,838
- 2009 Frontiers in Life Sciences Workshop Grant, School of Life Sciences, ASU, \$30,000
- 2008 Best Student Oral Presentation, North American Section – International Union for the Study of Social Insects, Puerto Rico Meeting

Professional Service

- 2019 Symposium organizer. *Cuticular Hydrocarbons in Insect Communication and Physiology*. Entomological Society of America annual meeting
- 2017 - 2019 SysEB Section Rep - Education and Outreach Committee; Entomological Society of America
- 2015 External examiner: Biology and Environmental Science Oral Comprehensive Exams, Earlham College
- 2013 - 2014 Conference symposium organizer. *Insect communication through cuticular chemicals*. International Society of Chemical Ecology & Chemical Signals in Vertebrates meeting
- 2009 - 2011 Biomimicry Fellow; Biomimicry 3.8. Missoula, Montana; <http://biomimicryinstitute.org>
- 2010 - 2011 Guest Instructor; Nature's Design Studio: A Biomimicry Workshop. Center for Teacher Success, Phoenix, AZ
- 2009 - 2010 Conference Organizing Committee Member, Frontiers in Life Sciences Conference, Arizona State University. *Social Biomimicry: Insect Societies and Human design*
- 2007 - 2009 Mentor; Graduate Partners in Science Education (GPSE) / Science Investigators Club. School of Life Sciences, Arizona State University & Phoenix Preparatory Academy, Phoenix, AZ
- 2007 - 2008 President, Animal Behavior Reading Group, Arizona State University

Peer Reviewer

Animal Behaviour (3), *Annals of the Entomological Society of America* (2), *American Naturalist* (2), *Behavioral Ecology*, *Behavioral Ecology and Sociobiology* (2), *BioEssays*, *Biological Invasions*, *Biological Journal of the Linnean Society*, *BMC Ecology*, *Chemoecology* (3), *Communications Biology*, *Current Biology*, *Current Opinion in Insect Science*, *Frontiers in Communication* (2), *Insectes Sociaux* (4), *Integrative and Comparative Biology*, *Integrative Organismal Biology*, *Journal of Chemical Ecology* (3), *Journal of Ethology*, *Journal of Experimental Biology* (9), *Journal of Insect Behavior* (2), *Journal of Insect Physiology* (3), *Journal of Insect Science*, *Journal of Thermal Biology*, *Molecular Ecology*, *Myrmecological News*, National Science Foundation, *Naturwissenschaften*, *Philosophical Transactions of the Royal Society B*, *Physiological Entomology*, *PloS One* (4), *Proceedings of the Royal Society B*, *Public Understanding of Science*, *Scientific Reports* (2), *The Science of Nature*

Professional Society Membership

International Union for the Study of Social Insects, North American Section; Entomological Society of America

Selected Presentations

- 2023 Smith, A. A. *Insect Biodiversity on Film!* Arts & Ideas lecture series; Communication, Media, and Performance Department, Framingham State University. **Invited Speaker**
- 2023 Smith, A. A. *Opportunities & advice for sharing your science through online video.*

- Departmental seminar, Entomology & Plant Pathology, University of Arkansas. **Invited Speaker**
- 2023 Smith, A. A. Strickland Entomology Speaker, University of Alberta. Edmonton, AL. **Invited Speaker**
- 2023 Smith, A. A. *Opportunities & advice for sharing your science through online video.* ComSciCon Triangle Meeting. Raleigh, NC. **Invited Speaker**
- 2022 Smith, A. A. *The stories we tell and why they matter: communicating insect research through online video.* Joint Annual Meeting of the Entomological Societies of America, Canada, and British Columbia. Online. **Invited Speaker**
- 2022 Smith, A. A. *Stories we can tell & why they matter.* International Union for the Study of Social Insects. San Diego, CA. **Invited Speaker**
- 2021 Smith, A. A. *Bugs on Film: Insect Behavior in the Lab & on YouTube.* Auburn University, Department of Biological Sciences. **Invited Speaker**
- 2021 Smith, A. A. *Broadcasting Ourselves: Opportunities for researchers to share their work through online video.* Eastern Branch Meeting Entomological Society of America. **Invited Speaker**
- 2020 Smith, A. A. Creative Mornings – RDU. May, “Nature”. **Invited Speaker.**
- 2020 Smith, A. A. *From Social Insect Communication to Science Communication Online.* Virginia Tech University, Department of Entomology. **Invited Seminar.**
- 2019 Smith, A. A. *Diversification and conservation of social signals in the cuticular hydrocarbon profile of *Odontomachus ants*.* International Society of Chemical Ecology meeting, Atlanta, GA. **Invited speaker.**
- 2019 Smith, A. A. *Science in an ant colony and on YouTube: chemical communication in social insects and science communication online.* University of North Carolina at Greensboro, Department of Biology. **Invited seminar.**
- 2019 Smith, A. A. *Incredible & under our feet: the secret worlds of insects.* Altered tour: Synergy from the intersect of ant and human communication. Michigan State University, Broad Art Museum & Department of Entomology. **Invited seminar.**
- 2018 Smith, A. A. *Incredible & under our feet: how insects can inspire our future.* 16th Annual Design Institute, The Nature Learning Initiative, North Carolina Museum of Art. **Plenary Speaker.**
- 2017 Smith, A. A. *Bugs in the news: why and how to be a spokesperson for your science in mass media.* Annual Meeting, North Carolina Entomological Society. **Keynote Address.**
- 2017 Smith, A. A. *Science communication, chemical communication, and the study of ant societies.* Department of Biology, James Madison University. **Invited seminar.**
- 2017 Smith, A. A. *Science communication, chemical communication, and the study of ant societies.* Department of Biology, University of North Carolina, Pembroke. **Invited seminar.**
- 2016 **Smith, A. A.** *Chemical communication and the organization of ant societies.* Department of Evolution, Ecology, and Organismal Biology Seminar, The Ohio State University. **Invited seminar.**

- 2016 **Smith, A. A.** *Science communication via video*. MEAS-FER 2016, Research Symposium. Departments of Forestry & Environmental Resources, Marine Earth, & Atmospheric Sciences, NC State University. **Invited speaker.**
- 2015 **Smith, A. A.** *The importance of being a spokesperson for your science and communicating basic biology through digital multimedia*. **Entomology Society of America**, Minneapolis, MN. **Invited speaker.**
- 2015 **Smith, A. A.** *Chemical communication and the organization of ant societies*. Northern Kentucky University, Department of Biology. **Invited seminar.**
- 2015 **Smith, A. A.** *Chemical communication and the organization of ant societies*. Earlham College, Department of Biology. **Invited seminar.**
- 2014 **Smith, A. A.** *Contact pheromones and the maintenance of a reproductive division of labor in ant societies*. University of Cincinnati, Department of Biological Sciences. **Invited seminar.**
- 2012 **Smith, A. A.** *Policing of worker reproduction in the ant *Aphaenogaster cockerelli**. University of Illinois at Urbana-Champaign, **Department of Entomology Colloquium.**
- 2008 **Smith, A. A., Hölldobler, B. and Liebig, J.** *Warranted aggression: the informational basis of physical policing in an ant society*. North American Section – **International Union for the Study of Social Insects**, Arecibo, Puerto Rico. (*awarded best student presentation*)
- 2006 **Smith, A. A.** and King, J. R. Poster: Observations on predation of the trap-jawed ant, *Odontomachus brunneus*, by *Formica archboldi*. **Congress of International Union for the Study of Social Insects**, Washington D.C

Notable Media Appearances

Press release authorship

- “The recent spread of coyotes across North America did not doom deer populations, new research finds”
20March2019. Covered by *Wildlife Society, Earth.com*
- “New research uncovers the predatory behavior of Florida’s skull-collecting ant.” 16Nov2018. Covered by *Nature, Discover, Nat Geo News, Inverse, The Verge, Newsweek, IFLScience, Smithsonian Magazine*
- “How coyotes conquered the continent.” 22May2018. Covered by *New York Times, Washington Post, Science*
- “New research solves the 60-year-old paleontological mystery of a “phantom” dicynodont.” 14Mar2018. Covered by *Der Standard, Inverse, Science Daily*
- “Research yields new details about trap-jaw ants.” 08May2017. Covered by *Live Science, Gizmodo, Entomology Today*
- “Researchers get first look at new extremely rare galaxy.” 04Jan2017. Covered by *CNN, Fox News, Gizmodo, Wired, BBC, Space.com*

- Cover photos** *Molecular Biology and Evolution* (vol. 32, issue 11, November 2015)
Biology Letters (vol.11, issue 1, January 2015)
Naturwissenschaften (vol. 98, issue 4, April 2011)
Cold Spring Harbor Protocols (vol. 4, issue 7, July 2009)

Television

- 2019 WTVD ABC11: *Raleigh researcher's skin-crawling viral video shows ant sting up close*
- 2018 CNN, Erin Burnett OutFront; *Twitter stunned by islands of ants*
- 2011 National Geographic & Ammonite Production: *City of Ants*

2008 KAET 8; ASU Research Review: *Social Interactions of Ants*

Radio

2016 NPR – WUNC, State of Things, 14 June, *The Ant Man*

2015 NPR – Science Friday, 12 June 2015, *This Ant Stinks*

2010 NPR – KJZZ Phoenix, Morning Edition, February 8th. *Biomimicry Institute @ ASU*

Internet (print)

2018 *Charlotte Observer*; “Did Carolinas really have millions of floating fire ants during Hurricane Florence?”

2015 Wired – contributor to [“Let’s nerd out about ants before you see *Ant-man*”](#)

Podcast

2015 Breaking Bio Episode 77 – [“From Ants to Academics with Dr. Adrian Smith”](#)

Print

2016 “Counting the reasons to love ants” - newspaper column, *The News & Observer*