

Adrian A. Smith

North Carolina Museum of Natural Sciences
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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 Ruzi, S. R., **Smith, A. A.**, Lee, N. M., Galvez, N.*, Dinh, T. A. What do natural history museums in the United States communicate via their YouTube videos? *PLoS ONE*
- 34 Ruzi, S. R., **Smith, A. A.**, Lee, N. M. 2025. Communicating biodiversity research on YouTube: An experimental comparison of scientists and third-party presenters. *Public Understanding of Science* DOI: 10.1177/09636625241300646
- 33 **Smith, A. A.** & Harrison, J. S. 2024. Jumping performance and behavior of the globular springtail *Dicyrtomina minuta*. *Integrative Organismal Biology* 6: obae029
- 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, *Mystrium 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 & Books

- 5 **Smith, A. A.** 2024. Bugs: A Flipbook about Motion in Nature. Flipboku, 2024.
- 4 **Smith, A. A.** 2024. Butterflies: A Flipbook about Motion in Nature. Flipboku, 2024.
- 3 **Smith, A. A.** 2024. Moths: A Flipbook about Motion in Nature. Flipboku, 2024.
- 2 Roth, A. 2024. Bugs on the Move*. *National Geographic Magazine*, April 2024: 71-75.
*5-page spread of an insect photography collaboration with artist Xavi Bou
- 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](#)** – 243,000+ subscribers; 45,000,000+ views
100+ video uploads – ongoing since 2009

Television **SciNC – PBS-NC** – segment story writer/director/producer
2024 season – 5 segments
Original broadcast air date: September 2024
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

- 2024 – current **LSC 170 Life Sciences First Year Seminar: Animal Senses** (Instructor and Curriculum Creator)
Department of Biological Sciences, North Carolina State University
- 2023 **ZO 486 Capstone Course in Zoology – Welcome to the Anthropocene** (co-Instructor with Dr. Jennifer Campbell); Department of Biological Sciences, North Carolina State University
- 2018 - current **BIO/PSC 555 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 Advisement

- 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), *Arthropod Structure and Development*, *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*, *Royal Society Open 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

- 2025 Smith, A. A. *Bugs on Film: Communicating Insect Natural History through Media*, NCTWS/NCPARC Joint Annual Meeting. Winston-Salem, NC. **Invited Speaker**
- 2025 Smith, A. A. *Multimedia as SciComm: Opportunities & advice*, ComSciCon Triangle Meeting. Chapel Hill, NC. **Invited Speaker**
- 2024 Smith, A. A. *Communicating Natural History Museum Science Through Youtube*. Yale Peabody Museum, Speakers Bureau. **Invited Speaker**
- 2024 Smith, A. A. Smith, A. A. *Bugs in Motion! Insect behavior in the lab & on YouTube*. Entomology Department, Virginia Tech University. **Invited, W. B. Alwood Entomological Society Speaker**
- 2024 Smith, A. A., Ruzi, S. R. *Communicating Natural History Museum Science Through Youtube: Trends and Strategies Across the U.S.* Annual Meeting, Association of Science and Technology Centers. Lightning Talk, Chicago.
- 2024 Smith, A. A. *Bugs in Motion! Insect behavior in the lab & on YouTube*. Biology Department, Georgia Southern University. **Invited Speaker**
- 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*