## Adrian A. Smith

North Carolina Museum of Natural Sciences

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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**

2010	2018 Filmmaker I	1 17 11	T	1 XX 7'1 11'C T'1	T . 1	T'1 1 T 1
2018	ZILLX Hilmmakar I	and Hallows	Internationa	I W/11/11/14 Hilm	1 HACTIVAL	Hilmmakar Lahe

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

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

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

- Dunn, R. R., Duggan, G., **Smith A. A.** Ants, art, and science. *SciArt Magazine* Feb. 2018. Online: <a href="https://www.sciartmagazine.com/collaboration-ants-art-and-science.html">https://www.sciartmagazine.com/collaboration-ants-art-and-science.html</a> ^ [Reprinted in May-June 2018 issue of *American Scientist*]
- Smith, A. A., Liebig, J. 2017. The evolution of cuticular fertility signals in eusocial insects. *Current Opinion in Insect Science* 22: 79-84.
- 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. *Mrymecological News* 25: 17-28.
- Smith, A. A., Millar, J. G., Suarez, A. V. 2016. Comparative analysis of fertility signals and sexspecific cuticular chemical profiles of *Odontomachus* trap-jaw ants. *Journal of Experimental Biology* 219: 419-430. [Featured article by Inside JEB]
- 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.
- Penick, C. A. and **Smith, A. A.** 2015. The true odor of the odorous house ant. *American Entomologist*. 61: 127-128.
- 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]
- 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.
- 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.
- 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.
- 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.
- 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]
- 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. ^
- 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. ^
- 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.
- 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.
- Smith, A. A. and Haight, K. L. 2008. Army ants as research and collection tools. *Journal of Insect Science*, 8: 71

### **Popular Articles**

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

### **Science Media Production**

Online Video Ant Lab <u>YouTube Channel</u> – 220,000+ subscribers; 37,000,000+ 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 5<sup>th</sup>, 2021 – June 30<sup>th</sup>, 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	hne	decian	

2018 - current	<b>BIO/PSC 592 Creative Media Production for Scientists</b> (Instructor and Curriculum Creator) Department of Biological Sciences, North Carolina State University
2017	<b>BSC/ARC/IPGE 295 Biologically Inspired Design</b> (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	<b>Biology for Biomimics</b> , 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	<b>BIO/IND 494/598 Biologically Inspired Design</b> (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 a 2009 - 2011	nd Laboratory Instruction IND/GRA/MGT 464, Collaborative Design and Development I & II (Teaching Assistant) InnovationSpace, The Design School, Arizona State University
-	IND/GRA/MGT 464, Collaborative Design and Development I & II (Teaching Assistant)
2009 - 2011	IND/GRA/MGT 464, Collaborative Design and Development I & II (Teaching Assistant) InnovationSpace, The Design School, Arizona State University  BIO 201, Human Anatomy and Physiology I (Lab Instructor). School of Life Sciences, Arizona
2009 - 2011 2008	<ul> <li>IND/GRA/MGT 464, Collaborative Design and Development I &amp; II (Teaching Assistant)</li> <li>InnovationSpace, The Design School, Arizona State University</li> <li>BIO 201, Human Anatomy and Physiology I (Lab Instructor). School of Life Sciences, Arizona State University</li> </ul>
2009 - 2011 2008 2007	IND/GRA/MGT 464, Collaborative Design and Development I & II (Teaching Assistant) InnovationSpace, The Design School, Arizona State University  BIO 201, Human Anatomy and Physiology I (Lab Instructor). School of Life Sciences, Arizona State University  BIO 187, General Biology I (Lab Instructor). School of Life Sciences, Arizona State University
2009 - 2011 2008 2007 2006	IND/GRA/MGT 464, Collaborative Design and Development I & II (Teaching Assistant) InnovationSpace, The Design School, Arizona State University  BIO 201, Human Anatomy and Physiology I (Lab Instructor). School of Life Sciences, Arizona State University  BIO 187, General Biology I (Lab Instructor). School of Life Sciences, Arizona State University
2009 - 2011  2008  2007  2006  Guest Lectures  2014, 2015,	IND/GRA/MGT 464, Collaborative Design and Development I & II (Teaching Assistant) InnovationSpace, The Design School, Arizona State University  BIO 201, Human Anatomy and Physiology I (Lab Instructor). School of Life Sciences, Arizona State University  BIO 187, General Biology I (Lab Instructor). School of Life Sciences, Arizona State University  BIO 100, The Living World (Lab Instructor). School of Life Sciences, Arizona State University  ENV 394 Science Communication: The art and practice of science storytelling. Biology,

2015	ART 335 & 445 Photography II & III. Visual & Performing Arts Division, Earlham College
2014	<b>IB 535, Biology and Tech Innovation</b> . Integrative Biology, University of Illinois at Urbana-Champaign. Online course.
2013 & 2014	<b>ENG 333, Creativity, Innovation, and Vision</b> . 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
<b>Teaching Confe</b>	rences
2011	Biology + Design. Biomimicry Education Summit. Cleveland, OH. (invited panelist)
2011	Presentation: <i>Biology into design module: self-organization and group behavior</i> . Biomimicry in Higher Education Webinar. The Biomimicry Institute.
2010	Presentation: <i>Biomimicry in a new product development classroom</i> . Biomimicry Education Summit. San Francisco, CA. ( <i>invited speaker</i> )

Biomimicry Education Summit. Jackson Hole, WY.

## **Mentorship**

2009

### **Undergraduate Research Publications**

2016 - 2017	Bria Pearson & Omar Halawani, North Carolina State University; <b>co-authorship</b> 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; <b>acknowledged contribution</b> to publication 14 above.
2012 - 2013	Whitney Vanderpool: Undergraduate, University of Illinois; <b>co-authorship</b> of publication 12 above.
2012	Francisca Casas: Undergraduate, University of Illinois; <b>acknowledged contribution</b> to publication 11 above.
2011	R. Neal Copple: Undergraduate, Arizona State University; <b>co-authorship</b> of publication 10 above.
2010	James Garcia: Undergraduate, Arizona State University; <b>acknowledged contribution</b> 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. <i>Insect communication through cuticular chemicals</i> . 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. <i>Social Biomimicry: Insect Societies and Human design</i>
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, 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. <b>Invited Speaker</b>
2023	Smith, A. A. Opportunities & advice for sharing your science through online video.

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

2016	<b>Smith, A. A.</b> <i>Science communication via video</i> . MEAS-FER 2016, Research Symposium. Departments of Forestry & Environmental Resources, Marine Earth, & Atmospheric Sciences, NC State University. <b>Invited speaker</b> .
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	<b>Smith, A. A.</b> <i>Chemical communication and the organization of ant societies.</i> Northern Kentucky University, Department of Biology. <b>Invited seminar</b> .
2015	<b>Smith, A. A.</b> <i>Chemical communication and the organization of ant societies</i> . Earlham College, Department of Biology. <b>Invited seminar</b> .
2014	<b>Smith, A. A.</b> Contact pheromones and the maintenance of a reproductive division of labor in ant societies. University of Cincinnati, Department of Biological Sciences. <b>Invited seminar.</b>
2012	<b>Smith, A. A.</b> <i>Policing of worker reproduction in the ant Aphaenogaster cockerelli.</i> University of Illinois at Urbana-Champaign, <b>Department of Entomology Colloquium</b> .
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	<b>Smith, A. A.</b> and King. J. R. Poster: Observations on predation of the trap-jawed ant, <i>Odontomachus brunneus</i> , by <i>Formica archboldi</i> . <b>Congress of International Union for the Study of Social Insects</b> , 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

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