

# DANIELA MAGDALENA SORGER, PHD

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[theantlife.com](http://theantlife.com)

## EDUCATION

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- 2015      **North Carolina State University**  
Ph.D., Zoology  
Advisor: Robert R. Dunn
- 2010      **University of Vienna, Austria**  
Prerequisites in Biology (2009 – 2010)
- 2008      **Vienna University of Economics and Business Administration, Austria**  
Mag., International Business Administration (equivalent to B.Sc. + M.Sc.)  
Specializations: *International Marketing Management + Change Management and Management Development*

## RESEARCH APPOINTMENTS & WORK EXPERIENCE

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- Current**      **Postdoctoral Researcher** (Aug 2016 – Present)  
*Students Discover* – Nat. Science Foundation, Math & Science Partnership Grant Nr. 1319293  
North Carolina Museum of Natural Sciences, North Carolina State University & Pennsylvania State University
- 2016      **Postdoctoral Researcher** (6 months)  
North Carolina State University, Raleigh, NC
- 2010      **Lab Assistant, Bluetongue Vector Surveillance** (2009 – 2010)  
Natural History Museum, Vienna, Austria
- 2010      **Research Assistant** (2009 – 2010)  
Ulm University, Germany (work place: Natural History Museum Vienna)
- 2009      **Internship** (6 months)  
AT Consult (Management Consulting Company), Vienna, Austria

## PUBLICATIONS (\* = Teachers)

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### PEER-REVIEWED:

12. **Sorger D.M.**, W. Booth, A. Wassie Eshete, M. Lowman & M.W. Moffett (in revision): A *Lepisiota* (Hymenoptera: Formicidae) species from Ethiopia with genetically diverse supercolonies and invasive ant traits. *Insectes Sociaux*.
11. **Sorger D.M.** (2015): Snap! Trap-jaw ants in Borneo also jump using their legs. *Frontiers in Ecology and the Environment* 13: 574-575. – *featured in [New York Times](#), [Discovery Channel](#), [Newsweek](#), etc.*
10. MACGOWN J.A., B. BOUDINOT, M. DEYRUP & **D.M. SORGER** (2014): A review of the Nearctic *Odontomachus* (Hymenoptera: Formicidae: Ponerinae) with a treatment of the males. *Zootaxa* 3802: 515-552. – *featured in [National Geographic](#), [The Independent](#), etc.*

9. DIAMOND S.E., **D.M. SORGER**, J. HULCR, S.L. PELINI, I. DEL TORO, C. HIRSCH, E. OBERG & R.R. DUNN (2011): Who likes it hot? A global analysis of the climatic, ecological, and evolutionary determinants of warming tolerance in ants. *Global Change Biology* 18: 448-456.
8. **SORGER D.M.** (2011): A new ant species from Borneo closely resembling *Tetramorium flagellatum*, Bolton 1977 (Hymenoptera: Formicidae). *Asian Myrmecology* 4:1-7.
7. **SORGER D.M.** (2011): Redescription and history of *Vombisidris jacobsoni* (Forel, 1915) (Hymenoptera: Formicidae). *Revue suisse de Zoologie* 118(1): 149-155
6. ZETTEL H. & **D.M. SORGER** (2011): New *Myrmoteras* ants (Hymenoptera: Formicidae) from the southeastern Philippines. *Raffles Bulletin of Zoology* 59(1): 59-65.
5. **SORGER D.M.** & H. ZETTEL (2011): On the ants (Hymenoptera: Formicidae) of the Philippine Islands: V. The genus *Odontomachus* Latreille, 1804. *Myrmecological News* 14: 141-163.
4. ZETTEL H. & **D.M. SORGER** (2010): Three new species of the army ant genus *Aenictus* Shuckard, 1840 (Hymenoptera: Formicidae: Aenictinae) from Borneo and the Philippines. *Zeitschrift der Arbeitsgemeinschaft österreichischer Entomologen* 62(2): 115-125.
3. ZETTEL H. & **D.M. SORGER** (2010): On the ants (Hymenoptera: Formicidae) of the Philippine Islands: IV. The genus *Vombisidris* Bolton, 1991. *Entomologica Austriaca* 17: 37-44.
2. **SORGER D.M.** & H. ZETTEL (2010): Taxonomic additions to the *Polyrhachis (Myrma) cyaniventris* species group (Insecta: Hymenoptera: Formicidae). *Annalen des Naturhist. Museums in Wien, Serie B, Band 111*: 31-36.
1. **SORGER D.M.** & H. ZETTEL (2009): *Polyrhachis (Myrma) cyaniventris* F. Smith, 1858 (Hymenoptera: Formicidae) and a related new ant species from the Philippines. *Zootaxa* 2174: 27-37.

**MANUSCRIPTS IN PREP.** (available upon request):

3. **SORGER D.M.**, J. JR. ZIMA, A. SMITH, C. SCHAL, M. JANDA & R.R. DUNN (in prep.): Revealing the hidden diversity of trap-jaw ants (Hymenoptera: Formicidae: Ponerinae: *Odontomachus*) along elevational gradients in Borneo using an integrative approach
2. **SORGER D.M.**, A.A. SMITH, W. BOOTH, & R.R. DUNN (in prep.): Cryptic divergence of native species among Florida's inland sand ridges: The case of trap-jaw ants (Hymenoptera: Formicidae: *Odontomachus*).
1. **SORGER D.M.**, J. JR. ZIMA, A. SMITH, M. JANDA & R.R. DUNN (in prep.): The geography of gene flow: genetic (and morphological) structure within a species of trap-jaw ant (Hymenoptera: Formicidae: *Odontomachus*) along a tropical elevational gradient.

**OTHERS:**

7. **SORGER D.M.**, D.E. BEASLEY, P. DEROUIN\*, M. HAFEY\*, M. MCKINLEY\*, L. SHELL, N. MCCOY, R.R. DUNN (2016): Ant Identification. (*Students Discover lesson plan*)
6. BEASLEY D.E., **D.M. SORGER**, P. DEROUIN\*, M. HAFEY\*, M. MCKINLEY\*, L. SHELL, N. MCCOY, R.R. DUNN (2016): Invisible Pathogens. (*Students Discover lesson plan*)
5. **SORGER D.M.**<sup>1</sup>, D.E. BEASLEY<sup>1</sup>, P. DEROUIN\*, M. HAFEY\*, M. MCKINLEY\*, L. SHELL, N. MCCOY, R.R. DUNN (2016): Ant Picnic data analysis lesson plan. (*Students Discover lesson plan*) <sup>1</sup> shared first authorship
4. SHELL L., **D.M. SORGER**, N. MCCOY, R.R. DUNN (2016): Ant Picnic lesson plan. (*Students Discover lesson plan*) <http://studentsdiscover.org/lesson/ant-picnic/>
3. **SORGER D.M.**, H.C. WAGNER, F.M. STEINER & B.C. SCHLICK-STEINER (2011): Ameisen (Formicidae): 212-216. – In: WIESBAUER, H., H. ZETTEL, M.A. FISCHER & R. MAIER (eds.). *Der Bisamberg und die alten Schanzen – Vielfalt am Rande der Großstadt Wien*. St. Pölten, 387 pp. (book chapter)
2. ZETTEL H., H. WAGNER, D. ZIMMERMANN, H. WIESBAUER, **D.M. SORGER**, E. OCKERMÜLLER & F. SEYFERT (2009): Aculeate Hymenoptera am GEO-Tag der Artenvielfalt 2009 in Pfaffstätten, NÖ. *Sabulosi* 2: 1-20.
1. ZETTEL H., D. ZIMMERMANN, **D.M. SORGER** & H. WIESBAUER (2008): Aculeate Hymenoptera am 8. Wiener Tag der Artenvielfalt 2008. *Sabulosi* 1: 1-10.

## TEACHING & MENTORING EXPERIENCE

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Teaching portfolio available at [theantlife.com/teaching/teaching-portfolio/](http://theantlife.com/teaching/teaching-portfolio/) – password: ants

### INSTRUCTOR

2014 *Islands & Evolution – From the Galapagos to New York City*, Biological Sciences, NCSU  
Class website: [theantlife.com/teaching/bio295-islands-evolution](http://theantlife.com/teaching/bio295-islands-evolution)

### TEACHING ASSISTANT

2015 *Introductory Biology II – Cellular and Molecular Biology*, Biological Sciences, NCSU  
Web-based distance education course

2013 *Field Ecology and Methods*, Biological Sciences, NCSU

2012 *Field Ecology and Methods*, Biological Sciences, NCSU

### MENTORSHIP

2016 *Students Discover* Externship – 3 weeks, NC Museum of Natural Sciences  
Middle School Teachers: Paige Derouin, Michelle Hafey, Maggie McKinley

2016 Project: *Does climate warming affect ant morphology? – Insights from a 5-year experiment*  
High School Student: Tabin Dharanikota

2012 NC State Initiative for Maximizing Student Diversity (IMSD), NCSU  
Undergraduate Student: Britné Hackett

HACKETT B., D.M. SORGER & R.R. DUNN (2012): Distance makes the difference: population divergence in the ant species *Dorymyrmex elegans*. 21st Annual NC State Undergraduate Research Symposium, Raleigh, NC, 1 Aug (poster).

HACKETT B., D.M. SORGER & R.R. DUNN (2013): And then there were four: Population divergence in the ant species *Dorymyrmex elegans* and *D. bureni*. 22nd Annual NC State Undergraduate Research Symposium, Raleigh, NC, 31 Jul (poster).

2011 Costa Rica Tropical Ecology Mentorship Program at CSU Dominguez Hills, La Selva Field Station  
Undergraduate Student: Peter Tellez

### OTHER TEACHING AND RELATED ACTIVITIES

2015 **Organizer** – Tree Climbing Workshop, NCSU  
Two 2-day tree climbing workshops for NCSU students interested in canopy research

2014 **Guest lecturer** – English 101, NCSU  
Lecture on role of writing in the biological sciences

## GRANTS & AWARDS

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2016 **Best Presentation Award**, W.M. KECK Center for Behavioral Biology Annual Symposium, NCSU

2014 **Preparing the Professoriate Fellowship**, NCSU [1,000\$]

2013 **Student Award** for oral presentation, Central European Myrmecology workshop, Austria

2013 **The Explorer's Club Exploration Fund** [2,500\$]

2011 **Global Change Fellowship**, Southeast Climate Science Center, NCSU [semester salary: 10,000\$]

2011 **Lewis and Clark Fund for Exploration and Field Research** [5,000\$]

2011 **Harkema Award** (Biology Department & Biology Awards Committee) [800\$]

- 2011 **TREE Foundation Travel Fellowship** to Ethiopia [2,000\$]
- 2010 **SYNTHESYS** (EU-funded, for integrated infrastructure of natural history collections) [2,000\$]  
Natural History Museum London, Great Britain
- 2010 **SYNTHESYS** (EU-funded, for integrated infrastructure of natural history collections) [2,000\$]  
Zoological Museum Copenhagen, Denmark

## PRESENTATIONS

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- 2016 Poster – National Association of Biology Teachers Professional Dev. Conference, Denver, CO
- 2016 Poster – Postdoctoral Research Symposium, NCSU
- 2016 Oral Presentation – W.M. Keck Center for Behavioral Biology Annual Symposium, NCSU
- 2016 **Invited Talk** – Vienna University of Technology, Microbiology Research Group, Austria
- 2015 Oral Presentation – W.M. Keck Center for Behavioral Biology Annual Symposium, NCSU
- 2014 **Invited Talk** – Shaw University (HBCU), Colloquium Seminar Series, Raleigh, NC
- 2014 **Invited Talk** (in German) – Nat. Hist. Museum Vienna, Austrian Entomologists' Association
- 2014 Oral Presentation – Evolution Meeting, Raleigh, NC
- 2013 Oral Presentation – Annual Meeting of the Entomological Society of America, Austin, TX
- 2013 Oral Presentation – Central European Workshop of Myrmecology, Innsbruck, Austria
- 2013 Oral Presentation – Evolution Meeting, Snowbird, UT
- 2012 **Invited Talk** (in German) – Natural History Museum Vienna, Museum Seminar Series, Austria
- 2012 Poster – IUSI Breakout Meeting of North American Section, Greensboro, NC

## OUTREACH

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- 2016 **Invited Talk** – *BugFest* 30,000+ person public event, NC Museum of Natural Sciences
- 2016 **Organizer** – *BugFest*, NC Museum of Natural Sciences (participated 2010 – 2016)  
Annual 30 000+ person outreach event featuring educational and entertaining displays, exhibits, and activities related to insects
- 2016 **Media Appearance** – *The Wine Fellers* [Radio Show](#), WHUP Radio, Hillsborough, NC
- 2016 **Educational video series** *Crazy Beautiful Nature* – short clips of insect behaviour (YouTube)
- 2014 **Media Appearance** – [Radio Interview](#), WDEL Delaware News Radio
- 2014 **Invited Talk** – *Darwin Day*, NC Museum of Natural Sciences
- 2013 **Media Appearance** – *Breaking Bio* Video Podcast Ep.52: [Into the jungle with Magdalena Sorger](#)
- 2012 **Invited Talk** (in German) – PVS Neulandschule (elementary school, 3rd grade), Vienna, Austria
- 2011 **Invited Talk** – New Apostolic Church, Garner, NC
- 2011 **Invited Talk** – Girls in Science Club (organized by NC Museum of Natural Sciences)  
Terrell Lane Middle School, Louisburg, NC
- 2011 **Invited Talk** – Girls in Science Club (organized by NC Museum of Natural Sciences)  
Harnett Central Middle School, Angier, NC

- 2009 **Invited Expert** – GEO Day of Species Diversity, Austria (2008 – 2009)  
Annual outreach event held in Austria’s National Parks with 5,000+ visitors

## PROFESSIONAL DEVELOPMENT

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- 2015 **Canopy Research Workshop** – Tree Climbing Planet, Oregon City, OR  
5-day canopy access training
- 2014 **Macrophotography Workshop** – BugShot, Sapelo Island, GA  
4-day workshop on macrophotography techniques
- 2014 **STEM & Writing Annual Partnership (SWAP)**, NCSU  
5-day workshop on teaching writing in the classroom
- 2014 **Preparing the Professoriate (PTP)**, NCSU (2013 – 2014)  
1-year program comprising mentorship and teaching
- 2014 **Certificate of Accomplishment in Teaching (CoAT)**, NCSU
- 2014 **Fundamentals in Teaching (FIT) Workshops**, NCSU (2012 – 2014)  
13 teaching workshops, see teaching portfolio
- 2013 **Graduate Student Professional Development Workshop (GSPDW)**, NCSU  
3-day-workshop covering personnel management, role of personality types, interviewing skills, stress management, ethics, and interactions with the media
- 2007 **International Exchange Semester**, University of Illinois, Urbana-Champaign, USA
- 2006 **International Summer University**, Hanoi Univ. of Technology + Nat. Economics Univ., Vietnam  
3-week-course with focus on International Marketing

## PROFESSIONAL ACTIVITIES & OTHER SKILLS

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### Journal Reviewer

Insect Systematics & Evolution, Raffles Bulletin of Zoology, Myrmecological News, Asian Myrmecology, Zoologischer Anzeiger, European Journal of Taxonomy

### Memberships & Working Groups

The Association for Tropical Biology & Conservation  
W. M. KECK Center for Behavioral Biology (North Carolina State University)  
ÖGEF – Österreichische Gesellsch. für Entomofaunistik (Austrian Association for Entomofaunistics)

### Field expeditions organized

**Borneo**, Sarawak & Sabah (Jul 2013, Feb/Mar 2012, Jul 2010)  
**Florida**, USA (Jun 2012, Jun/Jul 2011)  
**Costa Rica**, La Selva Biological Field Station (May 2011)

### Language skills

German – Polish (bilingual)                      French (good knowledge)  
English (fluent)                                      Spanish (good knowledge)

### Art

2 pieces on display at *SWARM – Invasion of Insects* Exhibition (May 20 - Aug 28 2016), Annapolis Sculpture Garden & Arts Center, Dowell, MD

