

**CHRISTOPHER C. WIRTH**  
*Curriculum Vitae*

Department of Biological Sciences  
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**EDUCATION**

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**Northern Arizona University**

Ph.D. in Biological Sciences, in progress  
Major Advisor: Aaron D. Smith

**Randolph-Macon College**

B.S. in Biology, June 2013. *Cum Laude* with Honors

Minors: Chemistry and Classical Studies

Honors thesis:

Description of the third instar larvae of *Cicindelidia abdominalis* F., *C. floridana* Cartwright, *C. highlandensis* Choate, and *C. scabrosa* Schaupp (Coleoptera: Carabidae: Cicindelinae)

Advisors: James Foster (academic); Chaz Gowan and C. Barry Knisley (honors thesis)

**PROFESSIONAL EMPLOYMENT**

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**Parsons Corporation**

*Wildlife Biologist*, April 2015-August 2015 (contract)

Extensive forest insects survey, sample sorting and specimen preparation

**Randolph-Macon College**

*Museum Assistant*, Biology Department, September 2009-May 2013

Revitalization and curation of neglected Departmental zoological teaching collection, integration of specimens in courses and in outreach programs

**PUBLICATIONS**

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4. **Wirth, C.C.** and A.D. Smith. In Review. Review of the genus *Trichiotes* Casey (Coleoptera: Tenebrionidae: Pimeliinae: Edrotini), with the description of a new species and a preliminary checklist of the Tenebrionidae from Cuatrociénegas, Mexico. *Zootaxa*.
3. Smith, A.D. and **C.C. Wirth**. 2016. A new genus and species of stridulating Edrotini (Coleoptera: Tenebrionidae: Pimeliinae) from West Texas, with notes on stridulation within the tribe. *Annales Zoologici*, 66(4): 577-587.

2. Knisley, C.B. and **C.C. Wirth**. 2013. Biological Studies of the Florida Tiger Beetle, *Cicindelidia floridana*, 2011-2013: Final Report. Report to the U.S. Fish and Wildlife Service, South Florida Ecological Services Office. 13pp.
1. Gibson, J.D. and **C.C. Wirth**. 2006. Field Notes: *Eumeces fasciatus* (Five-lined Skink). *Catesbeiana*. 26(1): 24-26.

#### **MANUSCRIPTS IN PREPARATION**

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- Wirth, C.C.** Type habitat and historic distribution of the Miami tiger beetle, *Cicindelidia floridana* (Coleoptera: Carabidae: Cicindelinae). Target journal: The Coleopterists Bulletin.
- Smith, A.D., **C.C. Wirth**, R.P. Lumen, and B.A.A. Thomas. Revision of the New World Amarygmini (Coleoptera: Tenebrionidae) genus *Cymatodes* Solier. Target journal: ZooKeys
- Smith, A.D., **C.C. Wirth**, and K.C. Seltmann. The production of defensive pruinescence in asidine darkling beetles (Coleoptera: Tenebrionidae: Asidini) and the identification of novel cuticular microstructures. Target journal: Arthropod Structure and Development.
- Wirth, C.C.** and A.D. Smith. A revision of the genus *Edrotes* Leconte (Coleoptera: Tenebrionidae: Pimeliinae) with descriptions of new species. Target journal: ZooKeys.
- Wirth, C.C.** and C. Gowan. Description of the third instar larvae of *Cicindelidia abdominalis* F., *C. floridana* Cartwright, *C. highlandensis* Choate, and *C. scabrosa* Schaupp (Coleoptera: Carabidae: Cicindelinae). Target journal: Coleopterists Bulletin.

#### **HONORS AND AWARDS**

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- The Honor Society of Phi Kappa Phi, Northern Arizona University Chapter. 2017
- Edwin W. Bowen Prize in Advanced Latin, Randolph-Macon College Classics Department. 2013
- Phi Beta Kappa Society, Zeta of Virginia Chapter. 2013
- National Key Award, Chi Beta Phi National Board of Officers. 2012
- Chi Beta Phi National Science Honorary. 2012
- Beta Beta Beta National Biological Honor Society. 2012
- Douglas W. Foard Phi Beta Kappa Sophomore Award. 2011
- Randolph-Macon College Dean's List. 2010-2013

#### **GRANTS AND FELLOWSHIPS**

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3. William Neal Cunningham Memorial Fund. \$2750. Randolph-Macon College, Biology Department. May 2013. Presented for "outstanding work in the field sciences."
2. Schapiro Undergraduate Research Fellowship. \$3500. Randolph-Macon College. 2010
1. Youth Incentive Award. \$550. Coleopterists Society. 2006

#### **PRESENTATIONS**

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- Wirth, C.C.** and A.D. Smith. 2016. A preliminary phylogeny of *Edrotes* LeConte (Coleoptera: Tenebrionidae). International Congress of Entomology meeting. Orlando, FL (poster)
- Wirth, C.C.** and C. Gowan. 2013. Description of the third instar larvae of the *Cicindelidia abdominalis* complex. Biology Department Research Colloquium, Randolph-Macon College. Ashland, VA (oral presentation)
- Wirth, C.C.** and Knisley, C.B. 2012. Microhabitat preference and larval development in the Coral Pink Sand Dunes Tiger Beetle. Chi Beta Phi National Conference. Davis and Elkins College, Elkins, WV (oral presentation)

**Wirth, C.C.** and Knisley, C.B. 2010. Preliminary results: larval development in the Coral Pink Sand Dunes Tiger Beetle. Schapiro Undergraduate Research Fellowship Symposium, Randolph-Macon College. Ashland, VA (poster)

#### **WORKSHOPS AND CONFERENCES ATTENDED**

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Coleopterists Society Annual Meeting. Orlando, FL. September 27, 2016  
International Congress of Entomology. Orlando, FL. September 25-30, 2016  
Entomological Collections Network Annual Meeting. Orlando, FL. September 23-24, 2016  
4<sup>th</sup> Bozeman Invitational Beetle Families Workshop. Bozeman, MT. June 12-21, 2016  
Coleopterists Society Annual Meeting. Minneapolis, MN. November 16, 2015  
Entomological Society of America. Minneapolis, MN. November 15-18, 2015  
Entomological Collections Network Annual Meeting. Minneapolis, MN. November 14-15, 2015  
Eastern Branch Annual Meeting, Entomological Society of America. Charlottesville, VA. March 13, 2006

#### **TEACHING EXPERIENCE**

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##### **Northern Arizona University**

*Teaching Assistant*, Unity of Life II: Lives of Multicellular Organisms, Spring 2017  
*Teaching Assistant*, Phylogenetics, Spring 2016  
*Laboratory Instructor*, General Entomology, Fall 2015, Fall 2016, Fall 2017

##### **Randolph-Macon College**

*Latin Tutor*, Classics Department, June 2011-January 2013

#### **STUDENT MENTORSHIP**

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Anya Metcalfe (MSc): Tricoptera DNA extraction, amplification, and sequencing (Spring 2017).  
Kali Swichtenberg (BSc): *Psammodes* (Tenebrionidae: Pimeliinae: Sepidiini) phylogenetics (Spring 2017-present).  
Mark Ecker (BSc): Cnodalonini (Tenebrionidae: Stenochiinae) DNA extraction and amplification (Spring 2017-present).  
Jenica Knaupp: (BSc): Elmidae DNA extraction and amplification (Fall 2015-Spring 2016).

#### **RESEARCH EXPERIENCE**

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##### **Dr. C.B. Knisley, Randolph-Macon College**

*Field Research Assistant*, July 2006-2013  
Cicindelinae population counts, habitat quality assessment, and natural history observations

##### **Virginia Department of Conservation and Recreation, Natural Heritage Program**

*Volunteer*, May 2006-July 2009.  
Active and passive insect collection, specimen preparation, and data entry

#### **SERVICE AND OUTREACH**

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Presenter, Colorado Plateau Museum of Arthropod Biodiversity, Northern Arizona University Science and Engineering Day. October 1, 2016  
Graduate Program Committee Representative, Biology Graduate Student Association, Northern Arizona University. 2016-2017

Graduate Student Selection Committee Representative, Biology Graduate Student Association, Northern Arizona University. 2016-2017  
Judge, Annual Science Fair, Marshall Elementary School. February 13, 2016; February 13, 2017  
Historian, Chi Beta Phi National Science Honorary National Board of Officers. 2012-2013  
Treasurer, Chi Beta Phi National Science Honorary Alpha Chapter. 2012-2013  
Secretary, Student Honors Association, Randolph-Macon College. 2012-2013  
Contributing photographer and writer, The Yellow Jacket Newspaper, Randolph-Macon College, Ashland, VA. 2011-2012  
Contributing editor for [BugGuide.net](http://BugGuide.net). October 2005-present

#### **PROFESSIONAL AFFILIATIONS**

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Entomological Society of America (2015-present)  
Entomological Collections Network (2015-present)  
Cicindela: A quarterly journal devoted to Cicindelidae (2008-present)  
Coleopterists Society (2006-present)

#### **SIGNIFICANT FIELD EXPERIENCE**

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Edrotini sampling, southeastern Arizona and southwestern New Mexico. August 3-10, 2017  
*Myrmecocystus* (Hymenoptera: Formicidae) colony excavation for the Museum of Northern Arizona. Coconino County, AZ. October 22 and 29-30, 2016  
Edrotini sampling, western US: AZ, CA, NV, OR, UT, ID. May-June 2016  
Montezuma Well Centennial BioBlitz. May 21-22, 2016  
Peppersauce Canyon, Oracle, AZ. October 9-11, 2015  
General Entomology trips to Walnut Creek Center for Education and Research, Prescott, AZ. September 11-13, 2015, September 9-11, 2016, September 8-10, 2017.  
Southeastern Arizona. August 2013  
Belmead Bioblitz, Powhatan, VA, May 18-19, 2013  
Miami-Dade County, FL. August 2010-2012, January 2013  
Biological inventory, Breaks Interstate Park, Breaks, VA. July 2008  
Bethel Beach Natural Area Preserve, Mathews County, VA. July 2008  
Coleoptera inventory, First Landing State Park. July 2007  
Coral Pink Sand Dunes, Kanab, UT. May 2007, 2008, May 23 - June 17, 2010  
Assateague Island National Seashore. July 2006, 2008, 2010-2013  
Potomac Gorge Bioblitz, Glen Echo, MD, June 24-25, 2006  
Calvert County, MD: June 2006, 2011-2013

#### **ENTOMOLOGICAL COLLECTIONS VISITED**

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Bohart Museum of Entomology. Davis, CA  
California Academy of Sciences. San Francisco, CA  
California State Collection of Arthropods. Sacramento, CA  
Essig Museum of Entomology. Berkeley, CA  
Florida State Collection of Arthropods. Gainesville, FL  
Frank M. Hasbrouck Insect Collection. Tempe, AZ  
National Museum of Natural History, Smithsonian Institution. Washington, D.C.  
Museum of Northern Arizona. Flagstaff, AZ  
University of Arizona Insect Collection. Tuscan, AZ