

Andrew Edward Z. Short, Ph.D.

CURRICULUM VITAE

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PERSONAL INFORMATION

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| ADDRESS: | Division of Entomology Natural History Museum 1501 Crestline Drive, Suite 140 University of Kansas Lawrence, KS 66059, USA | PHONE: | (607) 227.9462 |
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| | | WEBSITE: | http://www.hydrophiloidea.org |

EDUCATION

2007. Ph.D., Cornell University. Entomology with specialization in Systematics.

2002. B.Sc. with Distinction, University of Delaware. Entomology, minor in Biology. Cum Laude.

PROFESSIONAL EXPERIENCE

TO BEGIN AUGUST 2009:

Assistant Professor, Department of Ecology and Evolutionary Biology, University of Kansas
Assistant Curator, Division of Entomology, Natural History Museum & Biodiversity Research Center,
University of Kansas

PRESENTLY:

Postdoctoral Researcher, Santa Barbara Museum of Natural History, California, USA (2007-present)
Associate Editor, *Zootaxa*, Aquatic Staphyliniformia (2007-present)
Research Affiliate, Biodiversity Research Center, University of Kansas (2007-present)
Research Associate, Naturhistorisches Museum Wien, Austria (2006-present)
Research Associate, Instituto Nacional de Biodiversidad (INBio), Costa Rica (2003-present)

COLLABORATIONS (As a specialist on Hydrophiloidea and/or all aquatic Coleoptera)

Leaf Litter Arthropods of Mesoamerica (PI: R. Anderson et al., 2007-present)
Tree of Life Web Project: Coordinator for Hydrophilidae s.l. (PI: D. Maddison, 2006-present).
Assembling the Tree of Life: Coleoptera (PIs: B. Farrell et al., 2005-present).
Arthropods of La Selva, Costa Rica (ALAS) (PIs: John Longino et al., 2005-present).
Beetles of California (PI: M. Caterino, Santa Barbara Museum of Natural History; 2003-present).
Aquatic Insects of the Selenge River Basin, Mongolia (PI: J. Gelhaus, Acad. Nat. Sci.; 2004–2006).
Aquatic Beetles of New Caledonia (PI: M. Jäch, Naturhistorisches Museum Wien, 2004–2006)
Lotic Insects of Northern Thailand (PIs: G. Courtney, Iowa State; R. Sites, U. of Missouri; 2003–2007).

JOURNAL REFEREE

Acta Entomologica Musei Nationalis Pragae (2006–2008), *African Entomology* (2007), *Aquatic Insects* (2007), *The Coleopterists Bulletin* (2005), *Entomological News* (2006), *Invertebrate Systematics* (2006), *Koleopterologische Rundschau* (2005–2006), *Munis Entomology & Zoology* (2006), *J. North American Benthological Society* (2006), *Pan-Pacific Entomologist* (2004), *Proceedings of the Biological Society of Washington* (2006–2007), *Systematic Entomology* (2007), *Zootaxa* (2004–2008).

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Entomological Society (1994–present), Balfour-Browne Club (2003–present), The Coleopterists Society (2003–present), Entomological Collections Network (2006–present), Entomological Society of America (1994–present), Society for Systematic Biologists (2006–present), Weiner Coleopterologen Verein (2003–present), Willi Hennig Society (2006–present).

REFEREED PUBLICATIONS & BOOK CHAPTERS

[24: in prep] Fikáček, M., A.E.Z. Short, & E. Gentili. Hydrophilidae of the United Arab Emirates (Coleoptera).

[23: in prep] Shaverdo, H., A.E.Z. Short, & D. Enkhnasan. Predacious water beetles (Coleoptera: Dytiscidae) of Mongolia. *Koleopterologische Rundschau*

[22: in prep] Short, A.E.Z. Revision of the Afrotropical genus *Tritonus* Mulsant (Coleoptera: Hydrophilidae). *Koleopterologische Rundschau*

[21: in press] Short, A.E.Z. 2008. Review of the subtribes Acidocerina and Hydrobiusina of the Pacific Islands. In: *The Aquatic Coleoptera of New Caledonia*. Eds: M. Jäch & M. Balke. Vienna, Austria.

[20] Short, A.E.Z. & J.K. Liebherr. 2007. Systematics and Biology of the Endemic Water Scavenger Beetles of Hawaii (Coleoptera: Hydrophilidae). *Systematic Entomology*.

[19] Short, A.E.Z. & M. García. 2007. *Tobochares sulcatus*, a new genus and species of water scavenger beetle from Amazonas State, Venezuela (Coleoptera: Hydrophilidae). *Aquatic Insects* 29: 1–7.

[18] Liebherr, J.K. & A.E.Z. Short. 2006. *Blackburnia riparia*, new species (Coleoptera: Carabidae, Platynini): A novel element in the Hawaiian riparian insect fauna. *Journal of the New York Entomological Society* 114(1-2): 1–16.

[17] Short, A.E.Z. & P.J. Torres. 2006. Review of the *Hemiosus* Sharp and *Derallus* Sharp in North America, Central America, and the Caribbean (Coleoptera: Hydrophilidae: Berosini). *Zootaxa* 1369: 1–17.

[16] Short, A.E.Z. & F. Hebauer. 2006. World Catalogue of Hydrophiloidea—additions and corrections, 1 (1999–2005) (Coleoptera). *Koleopterologische Rundschau* 76: 315–359.

[15] Fikáček, M. & A.E.Z. Short. 2006. A revision of the Neotropical genus *Motonerus* Hansen (Coleoptera: Hydrophilidae: Sphaeridiinae). *Zootaxa* 1268: 1–38.

[14] Short, A.E.Z. & K. Kanda. 2006. The water scavenger beetles of Mongolia with new records from the Selenge River Basin (Coleoptera: Hydrophilidae). *Proceedings of the Academy of Natural Sciences of Philadelphia* 155: 9–12.

[13] Short, A.E.Z. & A.P. Swanson. 2005. A revision of the *Oocyclus* Sharp of Thailand with description of six new species (Coleoptera: Hydrophilidae). *Zootaxa*: 1078: 1–24.

[12] Short, A.E.Z. 2005. A review of the subtribe Acidocerina of Central America with special reference to Costa Rica (Coleoptera: Hydrophilidae: Hydrophilini). *Koleopterologische Rundschau* 75: 191–226.

[11] Short, A.E.Z. 2005. Two new species of *Enochrus* Thomson, subgenus *Hugoscottia* Knisch, from Costa Rica and Mexico (Coleoptera: Hydrophilidae) *Zootaxa*: 865: 1–7.

- [10] Short, A.E.Z. 2005. The Hydrophilinae of Delaware (Coleoptera: Hydrophilidae). *The Coleopterists Bulletin*. 58(4): 598–599.
- [9] Short, A.E.Z. 2005. A new genus and species of Sphaeridiinae from Costa Rica (Coleoptera: Hydrophilidae). *The Coleopterists Bulletin* 58(4): 534–537.
- [8] Short, A.E.Z. & P.D. Perkins. 2004. A Revision of *Oocyclus* Sharp of Mexico and Central America (Coleoptera: Hydrophilidae). *Zootaxa* 783: 1–45.
- [7] Short, A.E.Z. 2004. Review of the Central American species of *Hydrobiomorpha* Blackburn (Coleoptera: Hydrophilidae). *Koleopterologische Rundschau* 74: 363–366.
- [6] Short, A.E.Z. 2004. Review of the *Enochrus* Thomson of the West Indies (Coleoptera: Hydrophilidae). *Koleopterologische Rundschau* 74: 354–361.
- [5] Perkins, P.D. & A.E.Z. Short. 2004. *Omniops* gen. n. and two new species of Hydrophilini from Papua New Guinea (Coleoptera: Hydrophilidae). *Zootaxa* 494: 1–14.
- [4] Short, A.E.Z. 2003. *Enochrus (Methydrus) grossi* sp. n. from the Southeastern United States. *Transactions of the American Entomological Society* 129: 539–542.
- [3] Short, A.E.Z. 2003. The Lectotype of *Philydrus fimbriatus* Melsheimer (Coleoptera: Hydrophilidae). *The Coleopterists Bulletin* 57(3): 358–359.
- [2] Fairchild, G.W., J. Cruz, A.M. Faulds, A.E.Z. Short, & J.F. Matta. 2003. Microhabitat and landscape influences on aquatic beetle assemblages in a cluster of temporary and permanent ponds. *Journal of the North American Benthological Society*. 22: 224–240.
- [1] Short, A.E.Z. 2002. New Record of Zoraptera in Delaware. *Entomological News* 113: 215

HONORS & AWARDS

2007. John Henry Comstock Award, Entomological Society of America
2006. Entomological Society of America Presidents Prize, 10-minute talks, Honorable Mention
2006. Outstanding Teaching Assistant [for Introductory Biology]
2005. NSF Doctoral Dissertation Improvement Grant, ‘Meritorious’ ranking
2004. NSF Predoctoral Fellowship, Honorable Mention
2003. NSF Predoctoral Fellowship, Honorable Mention
2002. University of Delaware Department of Entomology Dale Bray Award
2002. Delaware Academy of Science, Volunteer Award
2001. REU Research Intern, Department of Entomology, California Academy of Sciences
2001. University of Delaware Collins-Seitz Award
2000. REU Research Intern, Department of Entomology, Academy of Natural Sciences
1999. Delaware Nature Society, Preservation Advocate Award
1996. American Entomological Society Calvert Award

GRANTS, FELLOWSHIPS, & CONTRACTS

2007. Palmer Fellowship, Department of Entomology (Cornell University)
2006. Graduate School Conference Travel Grant: \$325 (to ECN/ESA Annual Meeting, Indianapolis, IN)
2006. Rawlins Endowment Travel Grant: \$575 (to ESA Annual Meeting, Indianapolis, IN)
2005. Graduate School Research Travel Grant: \$1000 (to Venezuela for fieldwork)
2005. Graduate School Conference Travel Grant: \$350 (to ESA Annual Meeting, Ft. Lauderdale, FL)

2005. Rawlins Endowment Travel Grant: \$600 (to ESA Annual Meeting, Ft. Lauderdale, FL)
2005. Tinker Grant: \$750 (Venezuela fieldwork)
2005. North American Benthological Society (contract): \$2250 (Taxonomic Certification Program)
2004. Ernst Mayr Grant: \$675 (to the Natural History Museum, London)
2004. Rawlins Endowment Travel Grant: \$500 (to Santa Barbara Museum of Natural History, CA)
2004. Instituto Nacional de Biodiversidad: \$2100 (Hydrophiloidea of Costa Rica)
2003. Instituto Nacional de Biodiversidad: \$1800 (Hydrophiloidea of Costa Rica)
2003. Graduate School Conference Travel Grant: \$200 (to ESA Annual Meeting: Cincinnati, OH)
2003. Rawlins Endowment Travel Grant: \$1400 (to Vienna Natural History Museum)
2002. Senior Thesis Research Grant: \$250
1999. University of Delaware Undergraduate Research Grant: \$150

TEACHING & MENTORING EXPERIENCE

Teaching Assistant, Insect Biology (Entom 212), Cornell University (Fall 2006)
Teaching Assistant, Insect Systematics (Entom 331), Cornell University (Spring 2004)
Lab Instructor, Introductory Biology (BioG 101–104), Cornell University (2002–03, 2004–06)
Undergraduate Teaching Assistant, Intro. Entomology (Ento 205), University of Delaware (1999–2001)

Guest Lectures (2002–present). Biology of the Neotropics (x2, Cornell University), Elements of Entomology (x4, University of Delaware), Insect Conservation (x1, Cornell University), Insect Biology (x2, Cornell University), Insect Systematics (x2, Cornell University), Issues in Natural Resources and the Environment (x2, University of Delaware), Cornell Undergraduate Entomology Club (x1 Cornell University), and tours of the Cornell University Insect Collection to various classes, groups, and individuals.

Mentoring Experience: Five Cornell undergraduates invited and trained to assist with international fieldwork. Supervision of six undergraduate research projects, including three that have resulted in publication co-authorship. Training of a Mongolian and a Colombian student in aquatic beetle identification and field techniques.

PROFESSIONAL PRESENTATIONS (*=INVITED)

Short, A.E.Z. 2007. *Evolution of the Giant Water Scavenger Beetles*. Annual Meeting, Entomological Society of America. San Diego, CA. [submitted talk]

*Short, A.E.Z. 2007. *Climbing Trees: Ecomorphological Evolution of the Hydrophiline Water Scavenger Beetles*. Eastern Branch Meeting, Entomological Society of America. Harrisburg, PA. [invited talk].

Short, A.E.Z. 2007. *Ecomorphological Evolution of the Hydrophiline Water Scavenger Beetles*. Jugatae Seminar Series, Department of Entomology, Cornell University, Ithaca, NY.

*Short, A.E.Z. 2007. *Morphological Evolution and Habitat Shifting in Aquatic Beetles: Bridging the Aquatic-Terrestrial Divide*. Department of Ecology and Evolutionary Biology Colloquium, University of Kansas. Lawrence, KS. [invited department seminar]

Short, A.E.Z., J.K. Liebherr, & M. Caterino 2006. *Into the trees: phylogeny and ecomorphological transformations of the hydrobiusine water scavenger beetles (Coleoptera: Hydrophilidae)*. Annual Meeting, Entomological Society of America. Indianapolis, IN. [submitted talk]

*Short, A.E.Z. 2005. *In & Out of Water: Habitat shifts in aquatic beetles*. Department of Entomology & Wildlife Ecology, University of Delaware, Newark, DE. [invited department seminar]

Short, A.E.Z. 2005. *The Endemic Hydrophilidae of Hawaii: Habitat, Morphology, and Systematics*. Annual Meeting, Entomological Society of America. Fort Lauderdale, FL [submitted talk]

*Short, A.E.Z. 2005 *Hydrophilidae of Florida*. Florida Association of Benthologists. Gainesville, FL. [invited seminar and taxonomic workshop]

Short, A.E.Z. 2004. *Systematic Fieldwork in Practice*. Cornell Entomology Graduate Student Organization Seminar. Ithaca, NY. [talk]

Short, A.E.Z. 2004. *The Hydrophilidae of Costa Rica: Collection Methods and Habitat Preferences*. Eastern Branch Meeting, Entomological Society of America. New Haven, CT. [submitted talk].

Short, A.E.Z. 2003. *The Hydrophilinae of Costa Rica*. Annual Meeting, Entomological Society of America. Cincinnati OH. [submitted poster]

ELECTRONIC PRODUCTS

<http://www.hydrophiloidea.org>

In-depth resources on water scavenger beetles, including original keys, PDFs of primary literature, results of ongoing biotic surveys, data matrices, and updated lists of worker expertise and contact information.

MAJOR FIELD EXPERIENCE

*Venezuela, September 2007 (3 weeks)

*Ecuador, August 2007 (5 weeks)

*Costa Rica, May 2006 (2 weeks)

*Venezuela, January 2006 (4 weeks)

Hawaii, (Kaua'i,) May 2005 (2 weeks)

*Costa Rica, January 2005 (3 weeks)

Mongolia, July 2004 (5 weeks)

*Costa Rica, June 2004 (3 weeks)

*Costa Rica January 2004 (3 weeks)

Costa Rica, January 2003 (4 weeks)

Austria, September 2003 (3 days)

Texas & Arizona, July-August 2003 (3 weeks)

California, August 2002 (1 week)

Dominican Republic, November 2000 (1 week)

Costa Rica, January 2000 (4 weeks)

(*Expeditions led)

ENTOMOLOGICAL COLLECTIONS VISITED

Academy of Natural Sciences, Philadelphia, PA

American Museum of Natural History, New York, NY

Bernice P. Bishop Museum, Honolulu, HI

California Academy of Sciences, San Francisco, CA

Canadian Museum of Nature, Ottawa, Canada

Cornell University Insect Collection, Ithaca, NY

Enns Entomological Museum, University of Missouri, Columbia, MS

Essig Museum of Entomology (University of California-Berkeley)

Field Museum of Natural History, Chicago, IL.

Florida State Collection of Arthropods, Gainesville, FL

Instituto Nacional de Biodiversidad (INBio), Santo Domingo, Costa Rica

Mongolian Academy of Sciences, Ulaan Baatar, Mongolia
Museo de Artrópodos de la Universidad de Zulia, Maracaibo, Venezuela
Museo del Instituto de Zoología Agrícola, Maracay, Venezuela
Museum of Comparative Zoology (Harvard University), Cambridge, MA
Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM.
Natural History Museum (British Museum), London, UK
Naturhistorisches Museum Wien, Vienna, Austria
North Carolina State University Entomological Museum, Raleigh, NC
Ohio State University Insect Collection, Columbus, OH
Santa Barbara Museum of Natural History, Santa Barbara, CA
Snow Entomological Museum, University of Kansas, Lawrence, KS
United States National Museum of Natural History, Washington DC
Universidad de los Andes, Mérida, Venezuela
University of Delaware Reference Collection, Newark, DE