

Biographical Sketch

AUTUMN J. SMITH

Sam Houston State University
Department of Biological Sciences
Huntsville, Texas 77341-2116
(936) 294-1546
E-mail: ajs029@shsu.edu

EDUCATION

Texas A&M University-Kingsville – Ph.D. Wildlife Science, 2008.

Dissertation: “Helminth Community Ecology in South Texas Columbids.”

Sam Houston State University – M.S. Biological Science/Parasitology, 2005.

Thesis: “A study on the development, thermal limits, and host specificity of several species of Eugregarinida infecting tropical cockroaches.”

Peru State College – B.S. Biological Science/Chemistry/Parasitology, 2003.

Undergraduate Thesis: “Chemotherapeutic and Prophylactic Control—Gregarinostat Protocol”

PROFESSIONAL EXPERIENCE and APPOINTMENTS

Professorship: (August 2009 – Present)

Sam Houston State University, Department of Biological Sciences, Huntsville, Texas.
Adjunct Professor of Biological Sciences.

Courses Taught: Contemporary Biology (Fall 2009)

Histology (Spring 2010)

Human Anatomy (Spring 2010)

Contemporary Biology (Fall 2010)

Human Anatomy (Pre-Nursing) (Fall 2010)

Post-Doctoral Position: (August 2009 – Present)

Gregarine Biodiversity within the Big Thicket National Park, Texas

Sam Houston State University Curator (June – August 2009)

-Curator for Sam Houston State University Invertebrate (Insect) Museum.

Texas A&M University-Kingsville, Research/Teaching Assistant (August 2005 – 08)

-Helminth community ecology of gizzard worms of green-winged teal.

-Helminth community ecology of gizzard worms of northern shovelers.

-Parasite community structure in six species of south Texas doves.

-Graduate Teaching Assistant-Department of Animal Science, Texas A&M.

-Survey for *Trichomonas gallinae* in a Columbid Community in South Texas.

SMITH – SURVEY OF BIG THICKET ODONATES

Texas A&M University-Kingsville Invertebrate Curator (August 2005-December 2005)

Sam Houston State University, Research/Teaching Assistant (August 2003 - 05)

-Summer Research Assistantship funded through the Federal Appropriation of the Department of Homeland Security. Detection, testing, mapping and movement of carriers of deadly disease: disease vector studies along the U.S. - Mexico border and their potential threat to Homeland Security.

-Gregarine systematics, taxonomy, and host specificity.

-Graduate Teaching Assistant-Department of Biological Science (5 sections of Contemporary Biology, 2 sections of Environmental Science, and 2 sections of Histology and Microtechniques).

Peru State College, Research Assistant (August 2000-2003)

-Undergraduate research in gregarine taxonomy and chemotherapeutic/prophylactic control protocols.

PUBLICATIONS

Autumn J. Smith and Alan M. Fedynich. 2010. Helminth Community Composition, Structure and Pattern in six Dove Species (Columbiformes: Columbidae) of South Texas. *Journal of Parasitology* (in review).

Richard W. Gerhold, Michael J. Yabsley, **Autumn J. Smith**, Ellissa Ostergaard, William Mannan, Jeff D. Cann, and John R. Fischer. 2008. Identification of *Trichomonas vaginalis*-Like Cryptic Species on the *Trichomonas gallinae* Morphologic Complex. *Journal of Parasitology* 94: 1335-1341.

Autumn J. Smith and Tamara Cook. 2008. Host Specificity of Eugregarinida among six species of cockroaches (Order: Blattoidea). *Comparative Parasitology* 75: 288-291.

Autumn J. Smith, Tamara J. Cook, and William I. Lutterschmidt. 2007. Effects of Temperature on the development of *Gregarina cubensis* (Apicomplexa: Eugregarinida) parasitizing *Blaberus discoidalis* (Blattaria: Blaberidae). *Journal of Parasitology* 93: 583-588.

Tamara Cook and **Autumn J. Smith**. 2004. The Microscope and Diversity of Life (chapter 7), *Contemporary Laboratory Manual*.

Autumn J. Smith and Richard E. Clopton. 2003. The Efficacy of Oral Metronidazole and Potassium Sorbate against two Gregarine Parasites, *Protomagalhensia granulosa* and *Gregarina cubensis* (Apicomplexa: Eugregarinida), infecting the Death's Head Cockroach, *Blaberus discoidalis*. *Comparative Parasitology* 70: 196-199.

Richard E. Clopton and **Autumn J. Smith**. 2002. Efficacy of Oral Sulfadimethoxine against two Gregarine Parasites, *Protomagalhaensia granulosa* and *Gregarina cubensis* (Apicomplexa Eugregarinida), infecting the Death's Head Cockroach, *Blaberus discoidalis*. *Journal of Parasitology* 88: 786-789.

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MANUSCRIPTS IN PREPARATION

Smith, Autumn and Tamara J. Cook. 2010. A revision of the genus *Prismatospora* and a description of a new gregarine (Actinocephalidae: Acanthosporinae) from *Anax junius* (Odonata) nymphs in Walker County, Texas U.S.A.

Smith, Autumn and Alan M. Fedynich. 2010. Prevalence of *Trichomonas gallinae* from South Texas Doves.

Lutterschmidt, William and **Autumn Smith**. 2010. Seasonal Timing of follicle development, spermatogenesis and intra-sex synchrony of *Boa constrictors* from the Island of Aruba.

PRESENTATIONS AT PROFESSIONAL SCIENTIFIC CONFERENCES

American Society of Parasitologists

- Intestinal Helminths from 6 species of doves residing in south Texas, 2008.
- Influence of diet on Helminth species richness in south Texas doves, 2008.
- Host specificity of 5 species of Eugregarinida among 6 species of tropical cockroaches, 2005.
- Comparative oocyst ultrastructure of Eugregarines parasitizing the death's head cockroach, *Blaberus discoidalis*, 2005.

Southwestern Association of Parasitologists

- A survey for *Trichomonas gallinae* in 6 species of doves residing in south Texas, 2008.
- Using the host – parasite model to assess the influence of exotic doves on native doves, 2008.
- Helminths of common ground doves occurring in south Texas, 2007.
- Survey for *Trichomonas gallinae* in common ground doves from south Texas, 2007.
- Host specificity of 5 species of Eugregarinida among 4 species of cockroaches (Blaberidae). 2005.
- Efficacy of oral Metronidazole and Potassium Sorbate as Gregarinostats, 2005.
- Efficacy of Sulfadimethoxine as a Gregarinostat. 2005.

Wildlife Disease Association

- Comparison of prevalence of *Trichomonas gallinae* between the mourning dove and the white-winged dove in south Texas, 2007.
- Helminth assemblages in common ground doves and Inca doves from south Texas, 2007.
- Prevalence of *Trichomonas gallinae* in an Eurasian collared dove population in south Texas, 2006.

TAMUS Pathways Student Research Symposium

- Survey for *Trichomonas gallinae* in common ground doves from south Texas, 2006.

Sam Houston State University

- Studies of the development, thermal limits and host specificity of several species of Eugregarinida infecting tropical cockroaches, 2005.

Texas Academy of Science

- A temperature study on the development and viability of gregarine parasites infecting the death's head cockroach (*Blaberus discoidalis*), 2005.

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POPULAR ARTICLES (MAGAZINE)

Autumn J. Smith and Alan Fedynich. 2008. *South Texas Mourning Doves*, in *The South Texas Wildlife* 12(1): 3-4.

Timothy J. Ludwick, **Autumn J. Smith**, and Alan M. Fedynich. 2009. News from the Caesar Kleberg Wildlife Research Institute at Texas A&M University-Kingsville. *The Eurasian Collared-Dove: A New South Texas Resident* in *Texas Wildlife* 22-23

PEER REVIEW SERVICES IN PROFESSIONAL SCIENTIFIC JOURNALS

Invertebrate Pathology, Comparative Parasitology (4), International Journal of Plant Physiology and Biochemistry, Proceedings of the Entomological Society of Washington

PROFESSIONAL MEMBERSHIPS

Tri-Beta National Honors Society (2003-Present).
Southwestern Association of Parasitologists (2000-Present).
American Society of Parasitologists (2002-Present).
Wildlife Disease Association (2005-Present).
Houston Safari Club (2005-Present).
Southwestern Association of Naturalists (2002-2004).
Texas Academy of Science (2003-Present).
