

Chadwick Vaughn Tillberg

Postdoctoral Fellow

University of Illinois, School of Integrative Biology

505 Goodwin Ave., Urbana, IL 61801

Phone: (217) 333-3687; Fax: (217) 244-4565

Email: tillberg@life.uiuc.edu

Webpage: <http://www.life.uiuc.edu/suarez/tillberg>

Education:

PhD Department of Environmental, Population, and Organismic Biology

University of Colorado, Boulder, Colorado

Dissertation: "The evolution and ecology of an ant-plant symbiosis"

Dissertation Advisor: Professor Michael D. Breed

Bachelor of Arts in Biology with Honors

University of Kansas, Lawrence, Kansas

Honors Thesis: "Response time for escape behavior and mate searching behavior in the house cricket *Acheta domestica*"

Thesis Advisor: Professor William J. Bell†

Publications:

Tillberg CV, LeBrun EG, Suarez AV, Holway DA Trophic ecology of the ant communities of north central Argentina. *In Preparation*

Trager MD and Tillberg CV Ant occupancy patterns in the early ontogeny of *Cordia alliodora*, a neotropical myrmecophyte. *In Preparation*

LeBrun EG, Tillberg CV, Suarez AV, Folgarait P, Smith CR, Holway DA An experimental study of competitive interactions between red imported fire ants and Argentine ants in a region of native-range sympatry. *Submitted*

Tillberg CV, McCarthy D, Dolezal A, Suarez AV Measuring the trophic ecology of ants using stable isotopes. *Insectes Sociaux In Press.*

Tillberg CV, Geiger JMO, Ranker TA A molecular phylogeny of *Cordia* section *Gerascanthus* (Boraginaceae) and its implications for domatia evolution. *American Journal of Botany In Revision.*

Mooney KA, Tillberg CV (2005) Temporal and spatial variation to ant omnivory in pine forests. *Ecology* 86: 1225-1235.

Payne CM, Tillberg CV, Suarez AV (2004) Recognition systems and biological invasions. *Annales Zoologici Fennici* 41: 843-858.

Tillberg CV (2004a) Friend or Foe? A behavioral and stable isotopic investigation of an ant-plant symbiosis. *Oecologia* 140: 506-515.

Tillberg CV and Breed MD (2004) Placing an omnivore in a complex food web: dietary contributions to adult biomass of an ant. *Biotropica* 36: 266-271.

Tillberg CV (2004b) *Cordia gerascanthus* (Boraginaceae) produces stem domatia. *Journal of Tropical Ecology* 20: 355-357.

Greenfield MD, Tourtellot MK, Tillberg C, Prins N, Bell WJ (2002) Acoustic orientation via sequential comparison in an ultrasonic moth. *Naturwissenschaften* 89: 376-380.

Books

Tillberg CV, Breed MD, Hinnens SJ *Animal Behavior: A Laboratory Manual*. Academic Press. *In preparation*

Work in progress

Tillberg CV and Suarez AV Experimental tests of different trophic level calculation models.
Tillberg CV, Adis J, Paarmann W Trophic ecology of *Notiobia* beetles.

Grants and Awards:

Current:

NSF DEB 0516452 “Trophic ecology of ant invasions as revealed through stable isotope analysis” \$94,642. Andrew Suarez and Chadwick Tillberg Co-PIs.

Graduate:

CU Organization for Tropical Studies Course Fellowship - \$2000
Organization for Tropical Studies Post-Course Research Grant - \$224
Beverly Sears Dean’s Small Grant - \$725
University of Colorado Museum Walker Van Riper Grant - \$750
PhD Dissertation Grant - \$200
Organization for Tropical Studies Research Fellowship - \$2000
Beverly Sears Dean’s Small Grant - \$900
EPOB Graduate Student Research Grant - \$1000
NSF-IUSSI Sapporo Travel Grant - \$1250
EPOB Teaching Assistant Award - \$200
EPOB Graduate Student Semester Fellowship - \$8500

Undergraduate:

Graduate with Distinction in College of Liberal Arts and Sciences and Honors in Biology
Phi Beta Kappa Honor Society
Golden Key National Honor Society
George Gould Undergraduate Research in Entomology Award - \$1000
Undergraduate Research Award - \$250
Summerfield Scholarship - \$4000 (\$500 per semester)
Hertzler Clinic Scholarship - \$500

Teaching Experience

Evolution (BIOL 4974) Spring 2003 at University of Colorado – Denver
(Departmental Instructor rating: 95th percentile)
Animal Behavior Laboratory
Human Anatomy Laboratory
Biology – A Human Approach Laboratory (non-majors)
General Biology Laboratory
Insect Biology Laboratory

Professional Activities

Ant Course 2005, Southwest Research Station, AZ – Graduate
Sigma Xi Scientific Honor Society – Associate Member: 2000 – present
International Union for the Study of Social Insects (IUSSI) – Member: 2001 – present
Entomological Society of America – Member: 1999 – present
Organization for Tropical Studies – Alum and researcher: 1999 – present
Association for Tropical Biology – Member: 2002 – present
Peer Reviewer for: *Oecologia*, *Journal of Ecology*, *Biotropica*, *Insectes Sociaux*, *Journal of Tropical Ecology*, *Journal of Insect Science*

Selected Meetings and Presentations:

Midwest Ecology and Evolution Conference, March 2005, Carbondale, IL
Talk: Temporal and spatial variation to ant omnivory in pine forests

University of Illinois Department of Entomology Seminar, February 2005, Urbana, IL
Invited Talk: Food Web Deviants: Spatial and Temporal Dietary Variation in Ants

Entomological Society of America Annual Meeting, October, 2003, Cincinnati, OH
Talk: Placing an omnivore in a complex food web: stable isotope analysis of dietary contributions to adult biomass of an ant.

University of Colorado – Denver, February, 2003, Denver, CO
Invited Talk: Ant-Plant Mutualisms

Entomological Society of America Annual Meeting, November, 2002, Ft. Lauderdale, FL
Talk: Stable isotope analysis of an ant-plant symbiosis.

IUSSI International Congress, August, 2002, Sapporo, Japan
Poster: Placing an omnivore in a complex food web: stable isotope analysis of dietary contributions to adult biomass of an ant.

Selected Service/Outreach Activities

21st & 22nd Annual Insect Fear Film Festival display: The World's Largest Ant Farm!
Insect Day, Orpheum Children's Science Museum, Champaign, IL 16 July 2004
Mentor for McNair Scholar, University of Illinois
Mentor for Undergraduate Mentorship in Environmental Biology (UMEB) Student

References

Postdoctoral Advisor – University of Illinois:
Dr. Andrew V. Suarez: avsuarez@life.uiuc.edu

Dissertation Advisor – University of Colorado:
Dr. Michael D. Breed: michael.breed@colorado.edu

Teaching Advisor – University of Colorado – Denver:
Dr. Gerald Audesirk: gerald.audesirk@cudenver.edu

Collaborator – University of California – San Diego:
Dr. David Holway: dholway@biomail.ucsd.edu