

## J. Colton Watts, MS

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### Education:

**University of Nebraska-Lincoln**, Lincoln, Nebraska

Doctoral Student, School of Biological Sciences, **2014-present**

Advisors: Eileen Hebets and Brigitte Tenhumberg

**East Tennessee State University**, Johnson City, Tennessee

Master of Science in Biology, Department of Biological Sciences, **2014**

Thesis: *Diel Patterns of Foraging and Antipredator Behavior in Cyclosa turbinata*

Advisor: Thomas C. Jones

Bachelor of Science in Biology, Biology Concentration, *magna cum laude*, **2012**

### Publications:

**Watts JC**, Flynn AT, Tenhumberg B, Hebets EA (**2019**) Sexual selection does not explain intraspecific variation in male display traits among populations. *Evolution*.

Anderson AG, Hebets EA, Bickner B, **Watts JC** (**2018**) Males mate with multiple females to increase offspring number in a nursery web spider. *Behavioral Ecology* 29(4): 918-924.

**Watts JC**, Jones TC, Herrig A, Miller M, Tenhumberg B (**2018**) Temporal variation in predation risk may explain daily rhythms of foraging behavior in an orb-weaving spider. *The American Naturalist* 191(1).

Moore DJ, **Watts JC**, Herrig A, Jones TC (**2016**) Exceptionally short-period circadian clock in *Cyclosa turbinata*: regulation of locomotor and web-building behavior in an orb-weaving spider. *Journal of Arachnology* 44(3): 388-396.

Quijano A, Joyner ML, Ross C, **Watts JC**, Seier E, Jones TC (**2016**) Spatio-temporal analysis of foraging behaviors of *Anelosimus studiosus* utilizing mathematical modeling of multiple spider interaction on a cooperative web. *Journal of Theoretical Biology* 408: 243-259.

**Watts JC**, Ross CR, Jones TC (**2015**) Diel and life-history characteristics of personality: consistency versus flexibility in relation to ecological change. *Animal Behaviour* 101: 43-49.

**Watts JC**, Herrig A, Allen WD, Jones TC (**2014**) Diel patterns of foraging aggression and antipredator behaviour in the trashline orb-weaving spider, *Cyclosa turbinata*. *Animal Behaviour* 94: 79-86.

Joyner ML, Ross CR, **Watts JC**, Jones TC (**2014**) A stochastic simulation model for *Anelosimus studiosus* during prey capture: A case study for determination of optimal spacing. *Mathematical Biosciences and Engineering* 11.

### Presentations:

**Watts JC**, Tenhumberg B. Optimal resource allocation and prolonged dormancy strategies in herbaceous plants. Oral Presentation, Ecological Society of America Annual Meeting, **2019**.

**Watts JC**, Hebets EA, Tenhumberg B. Optimal mate choice behavior determines the density-dependence of sexual selection. Poster Presentation, The Evolution Conference, **2019**.

**Watts JC**, Tenhumberg B, Hebets EA. Geographic variation in male phenotype in relation to female mate choice. Oral Presentation, International Society of Behavioral Ecology, **2018**.

**Watts JC**, Tenhumberg B, Hebets EA. Geographic variation in male phenotype in relation to female mate choice. Oral Presentation, American Arachnological Society Meeting, **2018**.

**Watts JC**, Tenhumberg B, Hebets EA. Geographic variation in male phenotype in relation to female mate choice. Poster Presentation, Animal Behavior Society Meeting, **2016**.

**Watts JC**, Tenhumberg B, Hebets EA. Geographic variation in male phenotype in relation to female mate choice. Poster Presentation, International Congress of Arachnology, **2016**.

**Watts JC**, Hancock N, Herrig A, Miller M, Normark S, Wilson R, Jones TC. Diel patterns of courtship in the subsocial spider *Anelosimus studiosus* (Araneae: Theridiidae) may not be driven by female aggression. Oral Presentation, American Arachnological Society Meeting, **2015**

**Watts JC**, Herrig A, Normark S, Miller M, Jones TC. Ecological implications of diel rhythms of foraging and antipredator behavior in *Cyclosa turbinata* (Araneae: Araneidae). Oral Presentation, American Arachnological Society Meeting, **2014**

**Watts JC**, Herrig A, Normark S, Miller M, Jones TC. Ecological implications of diel rhythms of foraging and antipredator behavior in *Cyclosa turbinata* (Araneae: Araneidae). Oral Presentation, Appalachian Student Research Forum, **2014**

**Watts JC**, Herrig A, Allen WD, Jones TC. Chronoethology of *Cyclosa turbinata*. Oral Presentation, American Arachnological Society Meeting, **2013**

**Watts JC**, Ross CR, Jones TC, Seier E. Ecological Implications of Diel Rhythms of Aggression in the Subsocial Spider *Anelosimus studiosus* (Araneae: Theridiidae). Poster Presentation, Appalachian Student Research Forum, **2013**

**Watts JC**, Ross CR, Jones TC, Seier E. Ecological Implications of Diel Rhythms of Aggression in the Subsocial Spider *Anelosimus studiosus* (Araneae: Theridiidae). Oral Presentation, Entomological Society of America Meeting, **2012**

### **Awards, Grants, and Honors:**

Presidential Fellowship, University of Nebraska, \$24,000, **2019-2020**

Biological Sciences Special Funds, University of Nebraska, \$875, **2018**

American Arachnological Society Student Travel Award, \$280, **2018**

Biological Sciences Special Funds, University of Nebraska, \$1,000, **2018**

Animal Behavior Society Student Research Grant, \$1,000, **2016**

GAANN Fellowship, University of Nebraska, \$14,498, **2015-2017**

Biological Sciences Special Funds, University of Nebraska, \$1,000, **2015**

Othmer Fellowship, University of Nebraska, \$24,000, **2014-2017**

1<sup>st</sup> Place Graduate Oral Presentation in Natural Sciences, Appalachian Student Research Forum, **2014**

James H. Quillen Graduate Scholar, East Tennessee State University, \$4,000 **2013-2014**

Runner-up Best Student Talk, American Arachnological Society Meeting, **2013**

1<sup>st</sup> Place Graduate Poster Presentation in Natural Sciences, Appalachian Student Research Forum, **2013**

**Teaching, Public Outreach, and Service:**

Guest Lecturer, Animal Behavior, University of Nebraska-Lincoln, **2018**

Volunteer Exhibitioner, SciComm 2018 Science Festival, Nebraska State Museum, **2018**

Teaching Assistant, Ecology and Evolution Lab, University of Nebraska-Lincoln, **2017-present**

Referee, *Journal of Arachnology*, **2017-present**

Volunteer Exhibitioner, "Eight-Legged Encounters" Science Outreach Program, Toledo Zoo, **2017**

Volunteer Organizer/Exhibitioner, "Darwin Day" Sunday with a Scientist, Nebraska State Museum, **2017**

Volunteer Exhibitioner, "Eight-Legged Encounters" Science Outreach Program, U.S. Science and Engineering Festival, Washington D.C., **2016**

Referee, *Biological Journal of the Linnean Society*, **2016-present**

Vice President, Biology Graduate Student Association, University of Nebraska-Lincoln, **2015-2016**

Teaching Assistant, Introductory Biology for Majors, University of Nebraska-Lincoln, **2015-present**

Referee, *Journal of Ethology*, **2015-present**

Referee, *Ethology*, **2014-present**

Teaching Assistant, Introductory Biology for non-Majors, University of Nebraska-Lincoln, **2014-2015**

Volunteer After-school Science Club Coordinator, Dawes Middle School, Lincoln NE, **2014**

Volunteer Exhibitioner, "Eight-Legged Encounters" Science Outreach Program, Denver Museum of Nature and Science, **2014**

Teaching Assistant, Biology for Majors III, East Tennessee State University, **2012-2014**

Guest Lecturer, Arachnology, East Tennessee State University, **2013**

Volunteer Nature Program Collaborator, Johnson City Parks and Recreation, Johnson City, Tennessee, **2013**

Judge, Upper East Tennessee Science Fair, East Tennessee State University, **2013**

Volunteer Field Assistant, School for Scientific Models and Data Analysis, Tennessee Governor's School, **2012-2013**