

Joseph W. Felts

Curriculum Vitae

Division of Math, Science, and Business Technology
Davidson-Davie Community College
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Education

Aug 2003 – Aug 2007 **Texas Tech University**

Master of Science, Zoology
Lubbock, TX, United States

Aug 1999 – May 2003 **University of North Carolina at Wilmington**

Bachelor of Arts, Biology, Honors
Wilmington, NC, United States

Theses

Joseph W. Felts: *The Costs and Benefits of Ecological Information*. 08/2007, Supervisor: Kenneth A. Schmidt. M.S Thesis

Joseph W. Felts: *Use of bridges as daytime roosts by bats in southeastern North Carolina*. 05/2003, Supervisor: Wm. David Webster. Honors Thesis

Employment History

Biology Instructor

Davidson-Davie Community College. August, 2010 — Present

- Courses Taught - BIO 110: Principles of Biology, BIO 111: General Biology I, BIO 112: General Biology II, BIO 140: Environmental Biology, ZAS 120: Zoonotic Diseases, BIO 165 Lab: Anatomy and Physiology I
- Was First Instructor to Develop the Zoonotic Diseases Course
- Prepared Syllabi
- Prepared Lectures
- Prepared and Graded Assignments and Exams

- Set Up Labs
- Assigned Work in both Blackboard and Moodle
- Used McGraw Hills Online LearnSmart Learning Modules
- Served on Hiring Committees
- Supervised Adjunct Biology Faculty in General Biology
- Assisted in Program and Discipline Reviews
- Developed Student Learning Objectives and Criteria for their Assessment in General Biology and Environmental Biology
- Served as a Club Advisor for Zoo and Aquarium Science Club
- Served as a Club Advisor for the DCCC Freethinkers Club
- Participated in Faculty Meetings
- Served as Early College Biology Tutor for State End-of-Course Exams
- Worked with Early College to Ensure High School Student's met Graduation Criteria
- Awarded both Inquiry and Implementation Grants for Incorporating Undergraduate Research Experiences into General Biology I (2017-2018)
- Awarded Undergraduate Research Grants from North Carolina Space Grant (2018, 2019, 2021, 2022)

Adjunct Biology Instructor

Davidson County Community College. January, 2008 — August, 2010 (2 years 7 months)

- Courses Taught - BIO 111: General Biology I, BIO 112: General Biology II, BIO 140: Environmental Biology
- Prepared Syllabi
- Prepared Lectures
- Prepared and Graded Assignments and Exams
- Set Up Labs
- Assigned and Graded Coursework in Blackboard

Graduate Research Assistant

Texas Tech University Department of Biology. March — June, 2004

- Assisted in data collection and entry for mark-recapture study of snails on island of Puerto Rico

Graduate Teaching Assistant

Texas Tech University Department of Biology. August, 2003 — July, 2007

- Labs Taught - BIOL 1404: Biology II, BIOL 1113: Ecology and Environmental Problems

Sea Turtle Patrol Intern

University of North Carolina at Wilmington Department of Biology and Marine Biology. April — June, 2002

- Patrolled the beaches of Figure Eight and Masonboro Islands off the North Carolina coast to detect Loggerhead Sea turtle crawls and potential nesting sites
- Observations were reported to supervisor who investigated further

Peer-Reviewed Publications

Felts, J.W. and K.A. Schmidt. 2010. Multitasking and eavesdropping in cotton rats foraging under predation risk. *Behavioral Ecology* 21: 1080-1086. DOI: [10.1093/beheco/arq113](https://doi.org/10.1093/beheco/arq113).

Felts, J.W. and W.D. Webster. 2003. The use of bridges as daytime roosts by bats in southeastern North Carolina. *Journal of the North Carolina Academy of Science* 119: 172-178.

Other Publications (Reports, Data Sets, etc.)

Felts, J.W. 2017. Report for Transfer STEM Student Undergraduate Research at Davidson County Community College. Lexington, NC. DOI: [10.13140/RG.2.2.14913.25443/1](https://doi.org/10.13140/RG.2.2.14913.25443/1)

Felts, JW. 2018. "Antibiotic Resistance Genes Detection in Soil Samples CURE Project", Mendeley Data, v1. <http://dx.doi.org/10.17632/c8tswfwfxy.1>

Felts, JW. 2019. From an Inquiry-Guided Project to a CURE in General Biology: Testing Repellent Effects of Essential Oils and a Parasitoid Wasp Against *Callosobruchus maculatus*. <https://serc.carleton.edu/218102>

Felts, JW., M. Clark, H. Hughes, and S. Thompson. 2019. "Antibiotic Properties of Isolated Endophytic Fungi Extracts from Davidson County Community College Campus Flora", Mendeley Data, v1. <http://dx.doi.org/10.17632/pyzcsbm75t.1>

Felts, JW. and P. Stevens. 2020. "Repellent Effects of Essential Oils Against *Callosobruchus maculatus*", Mendeley Data, v2. <http://dx.doi.org/10.17632/zsdv75288r.2>

Conference Proceedings

Felts, J.W. March, 2003. *100th Annual Meeting of the North Carolina Academy of Science, Senior and Collegiate Academy*, Wilmington, NC, USA.

Other Presentations

Felts, J.W. April, 2017. "The Scientific Method" as part of: *How do you Know you are Looking at #Altfacts? A Brief Overview of Science, Truth, and the Scientific Method*. Spectrum Lecture Series, Davidson County Community College, Thomasville, NC, USA.

Felts, J.W. April, 2017. *The Ecology of Information and Fear in a Landscape Context, or How Aldo Leopold Already Told Us To "Think Like a Mountain"*. Special Lecture and Discussion, Davidson County Community College, Thomasville, NC, USA.

Felts, J.W. and Ring, D. March, 2022. "Undergraduate Research" as part of: *Scientific Inquiry and Undergraduate Research: Getting Started*. 2022 DDCC Faculty Symposium, Davidson-Davie Community College, Thomasville, NC, USA

Awards & Grants

Date	Grant or Award	Amount
Sept. 2018 - Sept. 2022	NCCCS Undergraduate Research via NC Space Grants	\$19,000.00
Aug. 2018	Grant: Frontier Set Project Implementation Grant, Davidson County Community College.	\$2,000.00
Jul. 2018	CUREnet Development Fellowship	\$1,000.00
Jan. 2018	Grant: Frontier Set Project Implementation Grant, Davidson County Community College.	\$2,000.00
Oct. 2017	Grant: <i>Frontier Set Project Inquiry Grant</i> , Davidson County Community College.	\$160.00
Jan. 2002	Grant: <i>Yarbrough Undergraduate Research Grant</i> , North Carolina Academy of Science.	\$200.00

Manuscript Reviewer

CourseSource

Undergraduate Student Research Supervisor

Student (s)	Year	Project Title	Slides or Presentation (if Available)
Molly Clark, Harley Hughes, Sopheap Thompson	2019	Antibiotic Properties of Isolated Endophytic Fungi Extracts from Davidson County Community College Campus Flora	Slides
Zoey Buchanan	2020	Do organic extracts from endophytic fungi isolated from local plants exhibit repellent effects against the cowpea weevil <i>Callosobruchus maculatus</i> ?	N/A

Matthew Sparks	2020	Do organic extracts from endophytic fungi isolated from local woody plants exhibit antimicrobial properties?	N/A
Laura Zapata	2020	The antimicrobial properties of semi-solid fermentations of endophytic fungi Grown on Iron Oxide (III) containing agar	Slides
Jennifer Harshbarger	2020	Antibiotic Properties of Isolated Endophytic Fungi on <i>P. aerogenes</i> and <i>S. marcescens</i>	Slides
Lillian Carpenter	2022	Anti-mitotic Properties of Organic Extracts from Endophytic Fungi Isolated from Davidson-Davie Community College Campus Flora	Presentation
Kayla Upshaw	2022	Fungicidal Properties of Organic Extracts from Endophytic Fungi Sampled from Davidson-Davie Community College Campus Vegetation	Poster

Skills & Interests

Research Skills and Interests *Ecology, Habitat Selection, Field Experience, Natural History, Field Ecology, Animal Behavior, Behavioral Ecology, Ethology, Ecology and Evolution, Conservation Biology, Animal Ecology, Wildlife Ecology, Mammals, Wildlife Biology, Foraging, Mammalogy, Bats, Small Mammals, Rodents, Conservation, Biodiversity, Evolution, Population Ecology, Astrobiology*

Languages English

Scientific Memberships American Society of Mammalogists
Ecological Society of America
The North Carolina Academy of Science
QUBES (Quantitative Undergraduate Biology Education and Synthesis)
NC Community College Association of Biology Instructors

College Activities

Club Advisor: DCCC Freethinkers (2014 – 2015)

Club Co-advisor: Zoo and Aquarium Science Club (2009-2012)
Hiring Committees: Spanish Faculty, Biology Faculty, College Liaison, Associate Dean
Early College High School Biology Tutor (2011-2017)
AA/AS Steering Committee for Program Review (2015-Present)
New Programs Committee (2019 – Present)