

**L. LYNNETTE DORNAK, PH.D.**

Assistant Professor

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**EDUCATION**

Ph.D. Geography. University of Kansas. Dissertation: Spatiotemporal variability of populations and suitable breeding habitat in three grassland sparrows: a multiscale approach. 2012  
M.S. Biology. Stephen F. Austin State University. Thesis: Effect of habitat quality on the reproductive success of the Brown-headed Nuthatch (*Sitta pusilla*). 2002  
B.S. Biology. Stephen F. Austin State University. Emphasis-zoology. 2000

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**PROFESSIONAL EXPERIENCE**

**POSITIONS**

*Assistant Professor*, Department of Geography, University of Wisconsin-Platteville, 2014–present  
*Faculty Associate*, Teaching and Technology Center, University of Wisconsin-Platteville, 2018–present, concurrent appointment  
*Postdoctoral fellow*. Gap Analysis Program, Fisheries and Wildlife, University of Idaho, 2013–2014  
*Postdoctoral fellow*. Science and Engineering Apprenticeship Program (SEAP) – Vector Map. Walter Reed Biosystematics Unit, Smithsonian Institute, 2012

**OTHER PROFESSIONAL EXPERIENCE / TRAINING**

*Contractor*. Science and Engineering Apprenticeship Program (SEAP) – EPA, Panama Mosquito Project. Walter Reed Biosystematics Unit, Smithsonian Institute, 2012  
*Research Assistant*. Science and Engineering Apprenticeship Program (SEAP) - VectorMap Project, Walter Reed Biosystematics Unit, Smithsonian Institute, 2011–2012  
*Field Technician*. Virginia Polytechnic Institute and State University. Conducted extensive nest searches for cavity nesting species associated with Red-cockaded Woodpecker habitat and collection of vegetation data for associated research plots on Eglin AFB, 2003  
*GIS Lab Assistant*. Geography, Haskell Indian Nations University, 2011  
*Graduate Teaching Assistant*. Environmental Studies Program, University of Kansas, 2010–2011  
*Graduate Teaching Assistant*. Department of Geography, University of Kansas, 2008–2011  
*Tutor*. Athletics, University of Kansas. Cultural and Physical Geography, African American Studies, Geology, Environmental Studies, 2008–2010  
*Graduate Teaching Assistant*. Division of Biological Sciences, University of Kansas, 2003–2005  
*Graduate Teaching Assistant*. Biology, Stephen F. Austin State University, 2001–2002

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**TEACHING**

**DEPARTMENT OF GEOGRAPHY – UNIVERSITY OF WISCONSIN-PLATTEVILLE**

Traditional Courses

- GIS and GPS (School of Agriculture – Reclamation Program), 2019
- Introduction to Geographic Information Systems, Fall Semesters 2014–present
- Advanced GIS, Spring Semester, Spring Semesters 2015–present
- Python for GIS, 2016–present
- Remote Sensing of the Environment, 2017–present
- Senior Seminar, 2018
- Planet Earth (Introductory Physical Geography), Fall Semester, 2016–present

Teaching through research

- Guided Research, 2016–present
- Independent Study, 2014, 2019

Student projects include:

- Bird mortality modeling – 1 student, 2019
- Lyme disease and host modeling – 3 students, 2014, 2 students, 2015, 1 student – 2016–2017, 3 – students 2018
- Invasive Asiatic honeysuckle – 1 student, 2015–2017
- Japanese hops invasive species modeling – 1 student, 2014; 1 student, 2015
- Texas vernacular identity mapping – 2 students, 2015, 2 students 2016
- Invasive species in the Driftless Area – 3 students, 2015
- Henslow's Sparrow habitat modeling – 1 student, 2015
- NanoGIS – 1 student, 2014
- Bee range mapping – 2 students, 2015

Teaching in the field

- Field Geography of the Western US – Texas - 2015, SW US - 2016, NW US - 2017, W US - 2018

DEPARTMENT OF GEOGRAPHY – UNIVERSITY OF KANSAS

Traditional Courses

- Principles of Physical Geography
- Environmental Conservation
- Field Ecology\*
- Capstone

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY – UNIVERSITY OF KANSAS

Traditional Courses

- Human Physiology\*
- Mammalian Physiology\*
- Biological Concepts\*

DEPARTMENT OF BIOLOGY – STEPHEN F. AUSTIN STATE UNIVERSITY

Traditional Courses

- Ornithology\*
- Botany\*
- Concepts of Biology\*
- Local Flora\*

\*indicates Lab sections only

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**PROFESSIONAL ACTIVITY**

\*indicates work with undergraduates

**RESEARCH IN PROGRESS**

DEPARTMENT OF GEOGRAPHY – UNIVERSITY OF WISCONSIN-PLATTEVILLE

\*Mapping the distribution of Lyme disease hosts and vectors, 2014–present

\*Mapping vernacular identity and cultural associations in Texas, 2014–present

UNIVERSITY OF IDAHO/ GAP ANALYSIS PROGRAM

Protected area effects on bird populations; Methods analysis for testing niche models 2013–present

UNIVERSITY OF KANSAS/ WALTER REED BIOSYSTEMATICS UNIT

U.S. Air Force Mosquito Distribution, 2012–present, intermittent

**PUBLICATIONS**

\***L. L. Dornak.** Varrientos, G.. 2016. Using modern mapping techniques to unite conservation efforts. Blue Mounds Mapping Project Newsletter. Spring 2016: 19(1).

- Folly-Ramos, E., **L. L. Dornak**, G. Orsolon, T. C. M. Goncalves, M. Lilioso, J. Costa, C. E. Almeida. Vector capacity of members of *Triatoma brasiliensis* species complex: The need to extend Chagas disease surveillance to *Triatoma melanica*. Journal of Vector Ecology, 41(1):48-54.
- Owens, H. L., Campbell, L. P., **Dornak, L. L.**, Saupe, E. E., Barve, N., Soberón, Ingenloff, K., Lira-Noriega, A., Hensz, C. M., Myers, C. E., Peterson, A. T., and Barve, V. 2013. Constraints of interpretation of ecological niche models by limited environmental ranges on calibration area. Ecological Modelling 263:10–18.
- Correia, N., Almeida, C. E., Lima-Neiva, V., Gumiel, M., **Dornak, L. L.**, Lima, M. M., Medeiros, L. M. O., Mendonça, V. J., da Rosa, J. A., Costa, J. 2013. Cross-mating experiments detect reproductive compatibility between *Triatoma sherlocki* and other members of the *Triatoma brasiliensis* species complex. Acta Tropica 128:162–167.
- Costa, J., **Dornak, L. L.**, Almeida, C. E., and Peterson, A. T. 2014. Distributional potential of the *Triatoma brasiliensis* species complex at present and under future climate conditions. Parasites and Vectors 7:238.
- Dornak, L. L.**, Barve, N., and Peterson, A. T. 2013. Spatial scaling of prevalence and population variation in three grassland sparrows. Condor 115:186–197.
- Foley D. H., Wilkerson R. C., **Dornak L. L.**, Pecor D. B., Nyari A. S., Rueda L. M., Long, L. S., and Richardson J. H. 2012. SandflyMap: leveraging spatial data on sand fly vector distribution for disease risk assessments. Geospatial Health 6:S25–S30.
- Almeida, C. E., Oliveira, H. L., Correia, N., **Dornak, L. L.**, Gumiel M., Neiva, V. L., Harry, M., Mendonça, V. J., Costa, J., Galvão, C. 2012. Dispersal capacity of *Triatoma sherlocki*, *Triatoma juazeirensis*, and laboratory-bred hybrids. Acta Tropica 122:71–79.
- Dornak, L. L.** 2010. Breeding patterns of Henslow's Sparrow and sympatric grassland sparrow species. Wilson Journal of Ornithology 122:635–645.
- Dornak, L. L.**, D. B. Burt, D. W. Coble, and R. N. Conner. 2004. Relationships between habitat and snag characteristics and the reproductive success of the Brown-headed Nuthatch (*Sitta pusilla*) in Eastern Texas. Southeastern Naturalist 3:683–694.

#### PRESENTATIONS AND INVITED LECTURES

- Dornak, L. L.** 2018. GIS, vector borne diseases, and climate change. Geospatial Alliance. Invited Keynote, Madison
- \***Dornak, L. L.**, 2018. Western Trip Service Projects. PCARD. UW-Platteville
- Dornak, L. L.** and A. Whiteman. 2018. What does 2050 hold for two mosquito disease vectors? Annual Meeting of the Association of American Geographers. New Orleans
- \*Arther, G. and **Dornak, L. L.** 2018. Exploring the current and future potential distributions of four Lyme disease hosts. Annual Meeting of the Association of American Geographers. New Orleans.
- Dornak, L. L.** Roller Derby and Women. Celebration of Strength and Wisdom of Women, UW-Platteville
- Dornak, L. L.** and Waugh, R. 2017. Can social media be used (reliably) for data collection in studies geographic research? Annual Meeting of the Association of American Geographers. Boston
- Waugh, R. and **Dornak, L. L.** 2017. The perception of Texas history as a function of geography. Annual Meeting of the Association of American Geographers. Boston
- \*Schultz, A., **Dornak, L. L.**, Predicting current and future potential distribution of one invasive honeysuckle in North America. 2017. American Association of Geographers, Boston
- \*Arther, G. and **Dornak, L. L.** Exploring the current and future distributions of Lyme disease hosts. 2017. Riversedge Nature Center Student Research Symposium. Saukville, WI. (poster award)
- Waugh, R. A., **Dornak, L. L.** 2016. Perceptual Regions of Texas: Then and Now. Annual Meeting of the Association of American Geographers. San Francisco.
- Varrientos, G. and **Dornak, L. L.** 2015. NanoGIS: Exploring seed topography of native prairie plants. Annual Meeting of the Association of American Geographers. Chicago, IL
- Dornak, L. L.**, C. J. Conway, J. Aycrigg. 2014. Are protected areas in the U.S. enough to conserve biodiversity? International Association for Landscape Ecology, Anchorage AK.

- Dornak, L. L.,** C. J. Conway, J. Aycrigg. 2013. Do protected areas contribute to bird conservation? American Ornithologists' Union, Chicago, IL.
- Dornak, L. L.** 2012. Use of ecological niche models to determine extent of potentially suitable habitat for Henslow's Sparrows across their breeding distribution. North American Ornithological Conference, Vancouver, BC.
- Dornak, L. L.** 2010. Dynamics of Henslow's Sparrow breeding habitat across the Midwestern landscape. Association of American Geographers, Seattle, WA.
- Dornak, L. L.** 2010. Spatiotemporal variation of three grassland sparrow species across three scales: local, route, global. Association of American Geographers, Washington, D.C.
- Dornak, L. L.** 2009. Spatiotemporal variation in Henslow's Sparrow populations at three spatial scales. American Ornithologists' Union, Philadelphia, PA.
- Costa, J., **L. L. Dornak**, C. E. Almeida, A. T. Peterson. 2009. Fine scale prediction of distributions of the *Triatoma brasiliensis* complex. Simpósio Internacional Comemorativo do Centenário da Descoberta da Doença de Chagas 1909–2009, Rio de Janeiro, RJ.
- Dornak, L. L.** 2009. Comparison of three grassland species in space and time. Association of American Geographers, Las Vegas, NV.
- \*Singh, B. and **L. L. Dornak**. 2004. The significance of male parental investment in hybridization in the northern flicker. Evolution. Ft. Collins, CO.
- Brock, L. L.** 2003. A comparative study of parental care investment and female choice among pure and hybrid Northern Flicker pairs within a hybrid zone. Graduate Student Research Seminar, University of Kansas, Lawrence, KS.
- Brock, L. L.,** D. B. Burt, D. W. Coble and R. N. Conner. 2002. Effects of habitat quality on the reproductive success of the Brown-headed Nuthatch. North American Ornithological Conference. New Orleans, LA.

#### PROFESSIONAL DEVELOPMENT

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##### UNIVERSITY OF WISCONSIN-PLATTEVILLE

- Office of Professional and Institutional Development (OPID), UW System, 2019
- Faculty College, UW-System, Richland Center, 2019
- Data Users Group (DUG) steering committee, 2018–present
- Undergraduate Research Mentoring Best Practices Workshop, 2017–2019
- General Education Assessment Showcase, 2018
- Coffee and Conversation – Active Learning, 2018
- Undergraduate Mentoring Luncheons 2017–present
- Southwest Wisconsin Regional Planning Commission Annual Meeting and Dinner 2016–present
- Board Boot Camp – hosted by Platteville Senior Center, 2018
- Courseleaf Curriculum Training, Spring 2018
- Canvas Early Adopters Training, Spring 2018
- SUFAC Budget Training, Fall 2018
- Cybersecurity Training, Fall 2018
- TTC Tech Mashup, attendee, Fall 2018
- API – Summer Kick Off, 2018
- Coffee and Conversation – High Impact Practices (3) Fall
- PCARD – UW-Platteville, 2018
- PAACE Conference, UW-Platteville 2016–2017
- Student-centered Assessment Workshop, 2017
- Geospatial Alliance Conference, 2016
- Accelerated Course Workshop, UW-Platteville 2016
- Advising Workshop (BILSA), UW-Platteville, 2016
- Safe-zone Training, 2016
- Council for Undergraduate Research Grant Writing Workshop, 2015
- ESRI Instructor-led Python Training – online, 2015
- Local Food Summit, 2015

Midwest Cultural Inclusive Conference (MCIC), 2014  
Oracle Business Intelligence consumer training, 2014  
Leading a Program Abroad Workshop (Study Abroad), 2014  
Teaching and Learning with First Generation College Students Workshop, 2014  
Teaching and Professional Development Level 1 modules (D2L), 2014

#### **INSTITUTIONAL AND PROFESSIONAL SERVICE**

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♦indicates Service Learning Projects with undergraduates

\*indicates TTC events I coordinated

##### **UNIVERSITY OF WISCONSIN-PLATTEVILLE**

###### **DEPARTMENT OF GEOGRAPHY**

Website content steward – Redesign and update, 2014–present  
Academic Advising –2014–present  
Schedule of BOE 104 – room reservations, 2016–2019  
Guest Lecture Planet Earth – Jim Valiga, Fall and Spring 2018  
Curriculum Improvement – Creation of GIS Certificate, 2017–present  
Curriculum Improvement – Revision of curriculum and GIS minor, 2015–2016  
Chair, Evaluations Committee – Revision of departmental student evaluations, 2014  
Search Committee – Assistant/Associate Professor and Chair of Geography, 2014–2015  
RSTP Committee – Rank, Salary, Tenure Policies Revision, 2014  
Lab modification proposal – awarded \$32,000 for globes and remote sensing software  
DRIVEN Advisor – 1 student, 2014  
Guest Lecture, BioTechnology, 2014, 2015

###### **COLLEGE OF LIBERAL ARTS AND EDUCATION**

Strategic Planning, 2019  
Curriculum Committee, 2016–present  
Diversity Committee Representative, 2015-present  
Dean’s Office, LAE, Mapped tornado damage on campus, 2014

##### **UNIVERSITY**

Faculty Senate, 2019–Present  
Academic Information Technology Commission - 2018–present  
Women’s Rugby – Faculty Advisor 2018–present  
Boebel Hall Planning and Design Committee – 2018–present  
Alcohol and Drug Advisory Committee, 2017–present (shelved)  
Engagement Grant Review (Office of Research and Sponsored Programs), 2018  
Research and Ethics Committee, 2015–2017  
♦Online Sesquicentennial Historic Campus mapping for Publications, student-projects, 2015  
♦Bike rack inventory and mapping for the Sustainability office, student course work, 2018  
Vice Chancellor for Administrative Services, Mapped admissions and enrollment services, 2014–present

##### **OTHER**

New Program Proposal - Data Science BS Degree Program – API, submitted Fall 2018, final submission 2019  
\*Pioneer Lab Crawl, 2019  
\*Internet of Things, workshop moderator, 2019  
Pioneer Experience Fair, co-coordinator, 2019  
\*General Education Proposal – “ePortfolios and Gen Ed Assessment,” 2019  
\*Coffee and Conversations – ePortfolio, 2019  
\*ePortfolio training sessions, 2019

\*Faculty Speed Dating – the Collaboration Edition, Faculty mixer, 2019

DEPARTMENTS OF GEOGRAPHY AND ECOLOGY AND EVOLUTIONARY BIOLOGY – UNIVERSITY OF KANSAS

Association of Women Geoscientists, Vice President, 2011–2012

GIS Day, Student Presentation Competition Chair, 2010

Great Plains-Rocky Mountain Divisions, Association of American Geographers, Coordination/Planning Committee, 2010

**JOURNAL REVIEWS**

Physical Geography: Predicting *Amygdalus Scoparia* spach habitat distribution with statistical techniques in mountainous rangelands Physical Geography

Physical Geography: Predicting *Amygdalus Scoparia* spach habitat distribution with statistical techniques in mountainous rangelands

Guest Editor, BioMed Research International, Special Issue: Vectors of Human and Zoonotic Diseases National Science Foundation. Generating effects of habitat isolation and complexity on large herbivores. BCS – Geography and Spatial Sciences Program, 2014, re-review 2015

Memórias do Instituto Oswaldo Cruz. Spatial dynamics of urban populations of *Lutzomyia longipalpis* (Diptera:Psychodidae) in Caxias, Maranhão, Brazil, 2013

Infection, Genetics and Evolution. Karyotype of *Triatoma melanocephala* Neiva and Pinto (1923). Is this species fits in the *Brasiliensis* subcomplex? 2012

Parasites & Vectors. Modelling the risk of being bitten by malaria vectors in a vector control area in south Benin, West Africa. 2012

**PUBLIC SERVICE**

♦Collaboration with the WI State Cartographer’s Office and Capital Area Regional Planning Commission (CARPC) –Bordner Mapping and Digitization with Intro GIS courses, 2017-present

♦Collaboration with Crawford Stewardship Project – Sink hole mapping with Adv and Python GIS courses, 2019

♦Mapping of campus infrastructure, Intro GIS course, 2019

♦PACCE/ SREF Community Service Projects – Field Geography Course, Stanislaus National Forest and Rocky Mountain National Park, 2018

♦PACCE/ SREF Community Service Projects – Field Geography Course, Rocky Mountain National Park, Glacier National Park, 2017

AR Sandbox Demo – Chemistry Summer Research Program, 2018-2019

♦PACCE project with Platteville Senior Center: Mapping of Historic Platteville, 2016–2018

Mapping of sewer and water infrastructure, Village of Dickeyville, 2016–2017

Unpaid manuscript editing, 2014–2018

Unpaid consulting for R and GIS, 2015–present

Regional GIS Forum, 2015

GIS Workshop for Local Educators, 2015

\*Goth Conservancy Sustainability Plan, Co-advisor of 1 student (with Rich Waugh), 2014–2015

♦PACCE/SREF Mapping local CO-OP local food supply, 2014

**OTHER**

Student Activities Committee, American Ornithologists’ Union, Website Subcommittee Chair, 2010–2011

Student Activities Committee, American Ornithologists’ Union, Quiz Bowl Subcommittee, 2010–2011.

Graduate Student Organization, Student Representative, 2003–2004

Environmental Studies Director Search Committee, Student Representative, 2004

**GRANTS, CONTRACTS, AND AWARDS**

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- Faculty Professional Development (internal) Faculty Professional Development (internal) 2017–2018
- Dean’s Fund (internal) 2017, 2018

- Scholarly Activity Improvement Fund (SAIF) proposal, Influence of climate change on Lyme disease hosts reservoirs and tick vector – predictions of expansion in 2050 and 2070 (not funded)
- Student Research and Engagement Fund (SREF) - Vegetation remediation and trail maintenance the Stanislaus National Forest and Rocky Mountain National Park, 2018
- Pioneer Academic Center for Community Engagement (PACCE) – Infrastructure maintenance and wildlife monitoring projects in national parks (written by L. Dornak, submitted by R. Waugh) 2017
- Team-based Assessment Fund, (with Drs. Larson and Underwood) 2017
- GLIMPSE.—“Geographic Landscape Inquiry through Multi-Proxy Studies in Ecology”, 2016 (not funded)
- Innovations in Teaching and Learning Award, *Augmented reality sandbox for 3D conceptualization of geographic concepts* – UW-Platteville, 2017
- Excellence in Teamwork Award (with Larson, E, and Underwood, C) – UW-Platteville
- Pioneer Undergraduate Research Fellowship, PURF (student: Arther, G) – Lyme Research
- NSF: “Preliminary Proposal: RUI: Invasion and disturbance in a fire-dependent ecosystem”, 2016 (not invited)
- Dean’s Fund – Python Training Seminar, 2015, \$963
- Scholarly Activity Improvement Fund – GIS Workshop, 2015, \$4,000
- UW-Platteville Grant Proposal Writing Fund – NSF/RUI, 2015, \$4,000
- Faculty Development Grant – AAG, Chicago, 2015, \$1204
- Ray Y Gildae Jr. Award, Royal Geographical Society, 2015, not funded
- Dr. Scholl Foundation, 2015, not funded
- Prairie Biotic Research – Small Grants Program, 2015, not funded
- University of Wisconsin-Platteville Pioneer Academic Center for Community Engagement (PACCE), 2014, \$4360
- NSF Doctoral Dissertation Research Improvement Grant, SBE Geography and Spatial Sciences (SBE #1131644), 2011, \$12,000
- KU Graduate Studies Doctoral Student Research Fund, 2011, \$500
- Tinker Grant (*Triatoma* sp. research), Latin American Studies, University of Kansas, 2010, \$700
- Chevron Scholarship (*Triatoma* sp. research), Osage Chapter, Association of Women Geoscientists, 2010
- KSR Small Grants Program, University of Kansas, 2008, \$300
- KSR Small Grants Program, University of Kansas, 2004, \$300
- Stephen F. Austin State University Alumni Scholarship, 2001, \$200

#### MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

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- Association of American Geographers, 2009–2012, 2015–present
- American Ornithological Society, 2016
- US-International Association for Landscape Ecology, 2014
- Association of Women Geoscientists, 2010–2012
- American Ornithologists’ Union, 2009–2014
- Association of American Geographers, 2009–2011
- Society of Wetland Scientists Ecological Society of America, 2001