Kevin W. Floyd

Curriculum Vitae

November 16, 2016

Department of Biological Sciences

University of Texas at El Paso

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**EDUCATION**

2015 Ph.D., Environmental Science and Engineering, University of Texas at El Paso. Dissertation: An assessment of the role of roads in population demography and genetic structuring in two lizard species of the northern Chihuahuan Desert. Co-advisors: Dr. Elizabeth Walsh and Dr. Jorge Gardea-Torresdey

2002 M.S., Ecology, University of California, Davis.

Thesis: Spatial Demography of a Genetically-Mapped Population of a Desert Shrub (*Sarcobatus vermiculatus*). Advisor: Dr. Catherine Toft.

1998 B.S., Zoology, University of California, Davis.

**RESEARCH EXPERIENCE**

2015–2016 Postdoctoral researcher. Department of Geological Sciences, University of Texas at El Paso.

Developed labs and wrote a lab manual for the Introduction to Environmental Science labs (ESCI 1101). Funded by the TIERA: Training in Environmental Research and Academic Success grant. Dr. Elizabeth Walsh, Department of Biological Sciences.

2008–2015 Doctoral Research, University of Texas at El Paso.

Used capture-mark-recapture methods to estimate impacts of roads on population abundance, survival, and movement of individuals of two lizard species, *Uta stansburiana* and *Aspidoscelis marmorata*. Used microsatellite markers to measure impacts on the genetic diversity and differentiation of lizard populations. Measured the concentrations of road- and traffic-related toxic metals in the surface soil along transects perpendicular to each road. Dr. Elizabeth Walsh, Department of Biological Sciences, and Dr. Jorge Gardea-Torresdey, Department of Chemistry.

2009, 2007 Research Assistant, University of Texas at El Paso.

Used a Malvern particle size analyzer to look at aeolian sediment samples collected at the Jornada Basin Long Term Ecological Research site. Addressed why different vegetation communities have different levels of dust production. Dr. Thomas Gill, Department of Geological Sciences.

2008 Research Assistant, University of Texas at El Paso.

Trapped, marked, and collected blood samples from freshwater turtles in the Rio Grande and surrounding waters in El Paso and Hudspeth Counties, TX. Dr. Jerry Johnson, Department of Biological Sciences.

1999–2002 Masters Research, UC Davis.

Extracted DNA from tissue samples of *Sarcobatus vermiculatus* collected at Mono Lake, CA. Identified genetic individuals using both Random Amplified Polymorphic DNA (RAPD) and Inter-Simple Sequence Repeats (ISSR) methods of DNA fingerprinting. Examined the population demographics for evidence for competition. Dr. Catherine Toft, Department of Evolution and Ecology.

1998 Field Assistant, UC Davis.

Assisted in the collection of tissue samples of *Podecnemus unifilis*, *P. expansa*, *Geochelone carbonaria*, and *G. denticulata* in the Peruvian Amazon. Collection methods included trapping wild animals and taking samples from captive and market animals. Tag Engstrom, Department of Evolution and Ecology.

**PUBLICATIONS**

1. Floyd, K. W. and T. E. Gill. 2011. The association of land cover with aeolian sediment production at Jornada Basin, New Mexico, USA. Aeolian Research 3: 55-66. doi:10.1016/j.aeolia.2011.02.002
2. Del Toro, I., K. Floyd, J. Gardea-Torresdey, D. Borrok. 2010. Heavy Metal Distribution and Bioaccumulation in Chihuahuan Desert Rough Harvester Ant (*Pogonomyrmex rugosus*) Populations. Environmental Pollution 158: 1281-1287.

**NON-REFEREED PUBLICATIONS**

1. Floyd, K. W. and E. J. Walsh. *In press*. Introduction to Environmental Science Laboratory Manual. Kendall Hunt Publishing Company, Dubuque IA.

**RESEARCH GRANTS**

2012 Grant for Conservation Biology Research, T&E, Inc. $2500

2009 Graduate School Research Funding, University of Texas at El Paso. $500

2009 Cotton Memorial Scholarship, University of Texas at El Paso. $2000

2009 Graduate School Research Funding, University of Texas at El Paso. $500

2009 Grant for Conservation Biology Research, T&E, Inc. $2500.

2008 Grants-In-Aid of Research, Sigma Xi. $1000.

2001 Jastro Shields Graduate Research Fellowship, University of California, Davis. $2000

**ORAL PRESENTATIONS** (\* denotes undergraduate researcher)

Floyd, K.W., and E. J. Walsh. 2015. The promises and perils of using molecular techniques to investigate the effects of roads on gene flow in wildlife populations. 100th Ecological Society of America Annual Meeting, Baltimore, MD. August 11, 2015.

Floyd, K.W., and C.S. Lieb. 2014. The effects of living near roads on abundance and survival in two lizard species in southern New Mexico. 99th Ecological Society of America Annual Meeting, Sacramento, CA. August 13, 2014.

Floyd, K. W., P. D. Duran\*, R. F. Marin\*, and E. J. Walsh. 2013. Comparison of road impacts on the population genetic structure of two syntopic lizards in southern New Mexico. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM. July 14, 2013.

Floyd, K. W. and C. S. Lieb. 2012. Population demography in two lizard species living near roads in the Northern Chihuahuan Desert. 97th Ecological Society of America Annual Meeting, Portland, OR. August 10, 2012.

Floyd, K. W. and C. S. Lieb. 2011. How roads affect population demography in two lizard species in the Northern Chihuahuan Desert. 96th Ecological Society of America Annual Meeting, Austin, TX. August 10, 2011.

Floyd, K. 2010. How roads affect lizards in our region. Chihuahuan Desert Conference, El Paso, TX. November 13, 2010.

Del Toro, I.\*, D. Borrok, K.W. Floyd, and J. L. Gardea-Torresdey. 2009. Heavy Metal Distribution and Bioaccumulation in Chihuahuan Desert Rough Harvester Ant (*Pogonomyrmex rugosus*) Populations. 94th Ecological Society of America Annual Meeting, Albuquerque, NM. August 4, 2009.

**POSTER PRESENTATIONS** (\* denotes undergraduate researcher)

Floyd, K. W. and C. S. Lieb. 2013. Impacts of roads on survival and abundance of two syntopic lizard species in Southern New Mexico. The Wildlife Society 20th Annual Conference, Milwaukee, WI. October 9, 2013.

Marin, R. F.\*, K. W. Floyd, and E. J. Walsh. 2012. The effects of roads on the population genetic structure of Western Whiptail lizards (*Aspidoscelis marmorata*) in Southern New Mexico. 2012 Annual Biomedical Research Conference for Minority Students, San Jose, CA. November 10, 2012.

K. W. Floyd and C. S. Lieb. 2012. Impacts of roads on population demography in two common lizard species in Southern New Mexico. The Wildlife Society 19th Annual Conference, Portland, OR. October 16, 2012.

Duran, P. D.\*, K. W. Floyd, and E. J. Walsh. 2012. Impacts of roads on the population genetic structure of the lizard *Uta stansburiana* in the Northern Chihuahuan Desert. 2012 Society for Advancement of Chicanos/Hispanics and Native Americans in Science National Conference, Seattle, WA. October 12, 2012.

Duran, P. D.\*, K. W. Floyd, and E. J. Walsh. 2012. Genetic effects of roads on northern Chihuahuan Desert populations of the lizard *Uta stansburiana*. 97th Ecological Society of America Annual Meeting, Portland, OR. August 8, 2012.

Floyd, K. W. and C.S. Lieb. 2010. Effects of roads on lizard population demography in southern New Mexico. Joint Meeting of Ichthyologists and Herpetologists, Providence, RI. July 10, 2010.

Floyd, K. W., T. E. Gill, and D. A. Gillette. 2009. Particle size distributions of aeolian sediments from five vegetation types at the Jornada Basin, New Mexico, USA. American Geophysical Union Fall Meeting, San Francisco, CA. December 15, 2009.

Floyd, K. W., J. G. Parsons, J. L. Gardea-Torresdey, E. J. Walsh, and C. S. Lieb. 2009. Occurrence of road and traffic associated heavy metals in soil sediments in southern New Mexico. International Conference on Ecology and Transportation, Duluth, MN. September 16, 2009.

Floyd, K. W., and C. S. Lieb. 2009. Differential road-related impacts on the demography of two lizard populations in Southern New Mexico: Preliminary results. 94th Ecological Society of America Annual Meeting, Albuquerque, NM. August 6, 2009.

Walsh, E. J., D. Borrok, I. Del Toro\*, and K. W. Floyd. 2009. Heavy metal pollutants in the El Paso, TX region: Results from a SEEDS special project. 94th Ecological Society of America Annual Meeting, Albuquerque, NM. August 3, 2009.

Floyd, K. and V. Milne. 2009. Lack of *Batrachochytrium dendrobatidis* detected in amphibian populations around El Paso, Texas. Joint Meeting of Ichthyologists and Herpetologists, Portland, OR. July 26, 2009.

Floyd, K. W., T. E. Gill, and D. A. Gillette. 2007. The relationship of land cover to aeolian dust production at the Jornada Basin, New Mexico, USA. American Geophysical Union Fall Meeting, San Francisco, CA. December 13, 2007.

Floyd, K. and T. Gill. 2007. The relationship of vegetative cover to dust characteristics and production at the Jornada Basin LTER site. Annual **Symposium of the Jornada Basin Long Term Ecological Research Program, Las Cruces, NM. July 12, 2007.**

**TEACHING EXPERIENCE**

2016–present Lecturer. Department of Geological Sciences, University of Texas at El Paso.

*Environmental Politics*(ESCI 4315 and POLS 4325) (co-taught 1 section with Dr. Irasema Coronado).

2015–present Lecturer. Department of Biological Science, University of Texas at El Paso.

*Organismal Biology*(BIOL 1306) (taught 5 sections).

2012–2015, Teaching Assistant.Environmental Science and Engineering, University of Texas

2006–2010 at El Paso.

*Laboratory for Environmental Practice* (ESCI 2103), Instructor of record 4 times (2011–2014), TA once (2010)

*Introduction to Environmental Science* laboratory (ESCI 1101) (taught 14 sections).

2010–2012, Adjunct Faculty. Biology Department, El Paso Community College, Valle Verde

2005–2007 and Northwest Campuses.

*General Biology­ I* (for majors, BIOL 1406) (taught 9 sections)

*General Biology II* (for majors, BIOL 1407) (taught 3 sections)

*Anatomy and Physiology II* (for majors, BIOL 2402) (taught 5 sections).

2004–2005 Adjunct Faculty. Biology Department, Community College of Baltimore County, Essex.

*Introduction to Environmental Science* (ENVS 101 and 102) (taught 8 sections of the lecture and 9 laboratory sections)

*Introduction to Biology* (BIOL 110) (taught 1 laboratory section)

*Microbiology* (BIOL 230) (taught 1 laboratory section).

2005 Non-credit Faculty. Odyssey Program, School of Professional Studies in Business and Education, Johns Hopkins University.

*The Global Environment* (Co-taught 1 section with Dr. David O’Neill).

**PROFESSIONAL DEVELOPMENT**

2013 Faculty and Graduate Student Instructor Teaching Seminar. UTEP Center for Teaching and Learning

**UNIVERSITY SERVICE**

2012–present Judge, University of Texas at El Paso Campus Office of Undergraduate Research Initiatives Symposia.

**PROFESSIONAL SOCIETIES AND AFFILIATIONS**

Society for the Study of Amphibians and Reptiles

Ecological Society of America

The Wildlife Society

Society for Conservation Biology

National Science Teachers Association

American Geophysical Union

Sigma Xi