

ACADEMIC APPOINTMENTS

Elisabeth Haub School of Law at Pace University, White Plains, NY

Visiting Assistant Professor in Environmental Law [2021-Present]

- Teaching:
 - LAW 856 - Environmental Law Survey [Sp21; Sp22]
 - LAW 775 - Conservation Law [F21]
 - LAW 802 – Science for Environmental Lawyers [F21]

University of Arizona, James E. Rogers College of Law, Tucson, AZ

Teaching Fellow and Professor of Practice [2018-2020]

- Teaching:
 - HNRS 395H - From the Laboratory to Capitol Hill: Science and Policy [F19]
 - LAW 402A/502A - Common Law I [Sp19; F19; Sp20; F20]
 - LAW 402B/502B - Common Law II [F18; Sp19; F19; Sp20; F20]
 - LAW 454/554 Environmental Law and Policy, [F18; Sp19; Su19; F19; Sp20; Su20; F20]
 - GENE 570L – Conservation Genetics Laboratory [F16; F18]

EDUCATION

University of Arizona, James E. Rogers College of Law, Tucson, AZ

Juris Doctor – magna cum laude, May 2018 (GPA: 3.871/4.0, Top 10% (#12/123))

- Certificate: Environmental Law, Science, and Policy
- Journal: *Arizona Journal of Environmental Law and Policy* – Articles Editor
- Awards: Order of the Coif; Sol Resnick Water Resources Fellow; Agnese Nelms Haury Social Justice Law Fellow; Carson Scholars Institute of the Environment Fellow; CALI Awards for highest course grade in: Civil Procedure (Fall 2015), Property (Spring 2016), Animal Law (Fall 2016), and Professional Responsibility (Spring 2018); Distinguished Scholar Scholarship (full tuition); Dean’s List (each semester)
- Clinic: International Environmental Law Clinic – Yaqui Human Rights Project
- Research Fellow: Sol Resnick Fellow for Professor Robert Glennon
- Activities: Environmental Law Society, Christian Legal Society, Volunteer Lawyer Program

University of Arizona, Graduate Interdisciplinary Department in Genetics, Tucson, AZ

Doctorate of Philosophy in Genetics, December 2020 (GPA: 4.0/4.0)

- Dissertation: *The Use of Conservation Genomics to Inform Law and Policy*
- Minor: Ecology and Evolutionary Biology
- Awards: GIDP Graduate College Fellowship, Graduate College Dean’s Tuition Award (2013 – 2014), GIDP Tuition Scholarship
- Committee: Dr. Melanie Culver (advisor), Dr. John Koprowski, Dr. Michael Barker, and Dr. Ken Logan

Washington and Lee University, Lexington, VA

Bachelor of Science, double major in Biology and Biochemistry, June 2013

- Honors: Dean’s List, Albemarle Corporation Honor Scholarship
- Activities: W&L Rugby, Phi Gamma Delta, Outing Club

SELECTED PUBLICATIONS

Law Review Articles - [SSRN](#)

- John A. Erwin, *Feeding the World: How Changes in Biotech Regulation Can Jump Start the Second Green Revolution and Diversify the Agricultural Industry* 44 WM. & MARY ENVTL. L. & POL'Y REV. 327 (2020) (with Robert Glennon). - [SSRN](#)
- John A. Erwin, *Hybridizing Law: A Policy for Hybridization Under the Endangered Species Act (Abstract)*, 48 ENVTL. L. REP. NEWS & ANALYSIS 10740 (2018). (This is a republished, condensed version of the original article; it was designated an Honorable Mention in the 2018 *Environmental Law and Policy Annual Review* (ELPAR) as one of the top environmental policy-relevant articles from 2016-2017).
- John A. Erwin, *Hybridizing Law: A Policy for Hybridization Under the Endangered Species Act*, 47 ENVTL. L. REP. NEWS & ANALYSIS 10615 (2017). - [SSRN](#)

Peer-Reviewed Scientific Publications – [Research Gate](#)

- Erwin, J.A., Fitak, R.R., Culver, M. 2021. *PumaPlex100: An Expanded Tool for Puma SNP Genotyping with Low-yield DNA*. CONSERVATION GENETICS RESOURCES (2021), <https://doi.org/10.1007/s12686-021-01206-7>.
- Erwin, J.A., Vargas, K., Blais, B.R., Bennett, K., Muldoon, J., Findysz, S., Christie, C., Heffelfinger, J.R., Culver, M. *Genetic Assessment of a Bighorn Sheep Population Expansion in the Silver Bell Mountains, Arizona*. PEERJ 6:e5978 (2018), <https://doi.org/10.7717/peerj.5978>.
- Erwin, J.A., Fitak, R.R., Dwyer, J.F., Morrison, J.L., Culver, M., *Molecular Detection of Bacteria in the Families Rickettsiaceae and Anaplasmataceae in Northern Crested Caracaras (Caracara cheriway), TICKS AND TICK-BORNE DISEASES* (2016), <http://dx.doi.org/10.1016/j.ttbdis.2016.01.015>.

Works-in-Progress

- John A. Erwin, *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act*. (Job Talk Paper; In prep.).
- John A. Erwin, *Genetic Interventions for Climate Change Adaptation*, in RESEARCH HANDBOOK ON CLIMATE CHANGE AND BIODIVERSITY LAW (Richard Caddell and Phillipa McCormack,) (In prep.)
- Erwin, J.A., Logan, K.A., Trumbo, D., Funk, W.C., Culver, M., *The Effects of Harvest on the Sexual Structure and Genetic Diversity of a Puma Population* (In review).
- Erwin, J.A., Fitak, R.R., Culver, M., *Using Genomics to Delineate Subspecies and Inform Translocations of Black-Tailed Prairie Dogs* (In prep.).
- Vargas, K., Erwin, J.A., Culver, M., *Argali Sheep Population Subdivision and Barriers to Dispersal in the Khangai and Altai regions of Mongolia* (In prep.).
- Erwin, J.A., Vargas, K., Stoltze, L., Fitak, R.R., Culver, M., *The Molecular Detection of Rocky Mountain Spotted Fever, Rickettsia rickettsia, and Other Rickettsial Bacteria in Dermacentor parumapertus* (In prep.).

Reports and Other Publications

- Erwin, J.A., *PumaPlex: A Tool for the Genetic Analysis of Pumas*, Wild Felid Monitor (2016), Vol. 9, Issue 1.
- Erwin, J.A., Fitak, R.R., Myers, T., Culver, M., *Genetic Analysis of Anodonta californiensis from the Rio Bavispe: A Recommendation for Reintroduction into the San Bernardino River Subbasin*. Arizona Game and Fish Report (2016) (peer reviewed).

Erwin, J.A., Culver, M., *Historical Connectivity of Black-tailed Prairie Dog Populations in the Southwest*. Arizona Game and Fish Report (2016) (peer reviewed).

OTHER WORK EXPERIENCE

EarthJustice, Anchorage, AK

Summer Law Clerk – Alaska Regional Office [June 2017 – August 2017]

Provided research on a wide variety of environmental and administrative legal issues, drafted comments and complaints, and specifically worked to utilize scientific data and the law to further advocate for our clients.

Albemarle Corporation, Baton Rouge, LA,

Intern – Microbiology Research [May 2012 – August 2012]

Grew biofilms of multiple bacteria for biocide testing in the Food Safety Lab.

Intern - Chemical Process Engineering, [May 2011 – August 2011]

Designed and managed process for silicon encapsulation of an organophosphate pesticide.

Undergraduate Research, Lexington, VA

Undergraduate researcher - Bioengineering [2011 – 2013]

Designed and constructed a sensor array for measuring electric fields in an aquatic environment based on the ampullae of Lorenzini found in sharks under the direction of Dr. Jon Erickson.

Undergraduate researcher – Salamander Ecology, [2010]

Investigated ecological and morphological differences between *Plethodon sherando* and *Plethodon cinerus* under the direction of Dr. David Marsh.

GRANTS, FELLOWSHIPS, AND AWARDS

- Graduate and Professional Student Council Research Grant, \$2,000 [2014]
- Carson Scholarship, Institute of the Environment Fellow, \$5,000 [2016]
- Agnese Nelms Haury Social Justice Law Fellow, \$3,750 [2017]
- Sol Resnick Water Resources Fellow, \$2,400 [2017]
- 2nd Place -2017 Endangered Species Law Student Writing Competition for *Canis rufus is Dead! Long Live the Red Wolf!*, \$750 [2017]
- Graduate and Professional Student Council Travel Grant, \$750 [2017]
- Genetics Representative for the GIDP Research Showcase, \$100 [2018]
- Presidential Award for the 27th Student Showcase, \$1000 [2019]
- Grad Slam Finalist, \$100 [2019]

SELECTED CONFERENCES AND WORKSHOPS

Twelfth Annual Colloquium on Environmental Scholarship at Vermont Law School [September 2021]

Paper Workshop – *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act*

2021 Future Environmental Law Professors Workshop at Pace University [September 2021]

Paper Workshop – *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act*

Natural Resources Teachers Works-in-Progress Session at the Rocky Mountain Mineral Law Institute [June 2021]

- Paper Workshop – *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act*
- 8th Sabin Colloquium on Innovative Environmental Law Scholarship** [May 2021]
Paper Workshop – *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act*
- 2020 Future Environmental Law Professors Workshop at Pace University** [September 2020]
Presentation – *Feeding the World: How Changes in Biotech Regulation Can Jump-Start the Second Green Revolution and Diversify the Agricultural Industry*
- 2020 Joint Meeting – AZ and NM American Fisheries and Wildlife Society** [February 2020]
Presentation – *Shepherding Students from the Lab to Publication: Teaching Students Conservation Genetics in the Laboratory Setting with Actual Case Studies*
- Grad Slam** [April 2019]
Presentation - *Using Genomics to Inform the Reintroduction of Black-Tailed Prairie Dogs Back Into Southern Arizona* - Finalist: \$100
- 27th Student Showcase** [February 2019]
Poster: *Using Genomics to Inform the Reintroduction of Black-Tailed Prairie Dogs Back Into Southern Arizona* - Winner of the grand prize Presidential Award: \$1000
- 2018 GDP Showcase** [December 2018]
Poster – *Using Genomics to Inform the Reintroduction of Black-Tailed Prairie Dogs Back Into Southern Arizona*
- University of Arizona Science Café Series at Borderlands Brewery** [November 2017]
Presentation – *Blood, Tissue, Hides, and Bones: Using Conservation Genomics to Inform the Reintroduction of Black-tailed Prairie Dogs*
- The Wildlife Society’s 24th Annual Meeting, Albuquerque, NM** [September 2017]
Presentation – *Range-wide Conservation Genomics of Black-tailed Prairie Dogs*
- 2016 NSF EID Interdisciplinary Retreat**, [August 2016]
Presentation - *The Effects of Sport Hunting on the Population and Social Structures of Mountain Lions: a Genomic Perspective*
- 2016 Joint Meeting – AZ and NM American Fisheries and Wildlife Society**, [February 2016]
Presentation – *PumaPlex100: An Improved Tool for the Genetic Analysis of Pumas*
- Graduate and Professional Student Council (GPSC) Grant Winner’s Expo**, [October 2015]
Poster - *PumaPlex100: An Improved Tool for the Genetic Analysis of Pumas*
- UCLA LaKretz Conservation Genomics Workshop**, [March 2015]
Accepted and attended on invitation
- 11th Mountain Lion Workshop**, [May 2014]
Presentation: *Improved Genotyping Success in Mountain Lion Scats Using Single Nucleotide Polymorphisms (SNPs)*

OUTREACH

Volunteer Lawyer Program

Volunteer, VLP Service Center [2016]

Assisted volunteer lawyers at the Service Center on family court issues.

Mentor for high school interns

Amy Pierce, Tucson High Magnet School [2015]

Amy worked on developing a SNP chip for pumas as her SARSEF science fair project.

Meagan Bethel, Tucson High Magnet School [2015]

Meagan worked on puma diet analysis as her SARSEF science fair project.

Luke Kim, *BASIS North Tucson* [2018]

Luke worked on a project titled Molecular Detection of *Rickettsiaceae* Bacteria in Antelope and Black-tailed Jackrabbits (*Lepus alleni* and *Lepus californicus*) for the Keys Internship.

PROFESSIONAL SERVICE

Big Ideas, Interdisciplinary Thinking Faculty Learning Community [2019]

- Member of a FLC for rethinking general education courses with emphasis on developing interdisciplinary courses based around “big ideas”.

Genetics GIDP Executive Committee [2018-2020]

- Student representative on the Genetics GIDP executive committee that is responsible for running the department, departmental seminars, and student recruiting.

BAR ADMISSIONS

Arizona

PROFESSIONAL ASSOCIATIONS

Wild Felid Association

The Wildlife Society

Ecological Society of America

PEER REVIEWER AND JOURNAL EDITOR

Climate Risk Management section of *Frontiers in Climate* – Review Editor

PLOS One - Reviewer

PROFESSIONAL REFERENCES

1. Dean Marc L. Miller
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University of Arizona James E. Rogers
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2. Prof. Robert Glennon
Regents Professor Emeritus and Morris K.
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3. Dr. Melanie Culver
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(Doctoral Advisor)
4. Prof. Katrina Fischer Kuh
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7. Prof. Keith Swisher
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