

JOHN (ALEX) ALEXANDER ERWIN, J.D., PH.D.

11200 S.W. 8th St., RDB 2035, Miami, FL 33199 | (863) 327-6951 | jerwin@fiu.edu

ACADEMIC APPOINTMENTS

Florida International University College of Law, Miami, FL

Assistant Professor [2022 -]

- Teaching:
 - LAW 5700 – Torts [F22; F23]
 - LAW 6470 – Natural Resources Law [Sp23; Sp24]
 - LAW 6471 – Environmental Law [F23]
- Committee Assignments:
 - Academic Culture [2022-2024]
 - Curriculum [2022-2024]
 - Diversity and Inclusion [2022-2023]

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

Visiting Assistant Professor in Environmental Law [2021-2022]

- 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 and Essays - [SSRN](#)

John A. Erwin, *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act*, 108 CORNELL L.R. 1117 (2023). - [SSRN](#)

- Winner of SEALS 2023 Call for Papers Award
- Chosen for presentation at the 2023 Harvard | Stanford | Yale Junior Faculty Forum

John A. Erwin, *So You Want to Be an Environmental Law Professor ...: An Empirical Analysis of the Environmental Law Hiring Market from 2011 – 2022*, 49 ECOLOGY L. CURRENTS 37 (2022), - [LINK](#)

John A. Erwin & Robert Glennon, *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). - [SSRN](#)

John A. Erwin, *Hybridizing Law: A Policy for Hybridization Under the Endangered Species Act*, 47 ENVTL. L. REP. NEWS & ANALYSIS 10615 (2017). - [SSRN](#)

- Designated an Honorable Mention and republished 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 (Abstract)*, 48 ENVTL. L. REP. NEWS & ANALYSIS 10740 (2018).

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

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*. MOLECULAR ECOLOGY (2023), <https://doi.org/10.1111/mec.17237>.

Payne, N., **Erwin, J.A.**, Morrison, J., Dwyer, J., Culver, M., *Genomic insights into isolation of the threatened Florida crested caracara (Caracara planicus)*. 115 JOURNAL OF HEREDITY 45 (2024), <https://doi.org/10.1093/jhered/esad057>.

Teal, C.N., Coykendal, D.K., Campbell, M.R., Delomas, T.A., Eardley, D.L., **Erwin, J.A.**, Schill, D.J., Bauder, J.M., Bonar, S.A., Culver, M., *The development of genetic sex identification markers and evidence of a male heterogametic sex determination system in red shiner (Cyprinella lutrensis)* 85 NORTH AMERICAN JOURNAL OF AQUACULTURE 74 (2023), <https://doi.org/10.1002/naaq.10274>.

Erwin, J.A., Fitak, R.R., Culver, M. 2021. *PumaPlex100: An Expanded Tool for Puma SNP Genotyping with Low-yield DNA*. 13 CONSERVATION GENETICS RESOURCES 341 (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), 7 TICKS AND TICK-BORNE DISEASES 470* (2016), <http://dx.doi.org/10.1016/j.ttbdis.2016.01.015>.

Books

BIODIVERSITY LAWS, POLICIES, AND SCIENCE IN EUROPE, THE UNITED STATES AND CHINA (Eds. Giovanni Antonelli, Tianbao Qin, and **John A. Erwin**) (Forthcoming 2024).

Book Chapters

John A. Erwin, *Predator Law in the United States*, in BIODIVERSITY LAWS, POLICIES, AND SCIENCE IN EUROPE, THE UNITED STATES AND CHINA (Eds. Giovanni Antonelli, Tianbao Qin, Maria Vittoria Ferroni, and **John A. Erwin**) (Forthcoming 2024). - [SSRN](#)

John A. Erwin, *Changing Genes for a Changing Climate: Genetic Intervention as a Tool for Biodiversity Conservation in the Era of Climate Change*, in RESEARCH HANDBOOK ON CLIMATE CHANGE AND BIODIVERSITY LAW (Eds. Richard Caddell and Phillipa McCormack) (Forthcoming 2024). - [SSRN](#)

Works-in-Progress

John A. Erwin, *Litigating Predator Management* (forthcoming UTAH L.R. 2025)

John A. Erwin, *Interspecific Genetic Variation and the ESA* (work in progress)

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).

Blogs and Popular Press

Sackett v. EPA – AKA See Rapanos (plurality opinion), PrawfsBlawg (May 30, 2023), <https://prawfsblawg.blogs.com/prawfsblawg/2023/05/sackett-v-epa-aka-see-rapanos-plurality-opinion.html>

An Empirical Analysis of the Environmental Law Hiring Market – Erwin Guest Post, PrawfsBlawg (Sept. 16, 2022), <https://prawfsblawg.blogs.com/prawfsblawg/2022/09/an-empirical-analysis-of-the-environmental-law-hiring-market-erwin-guest-post.html>

GRANTS, FELLOWSHIPS, AND AWARDS

- FIU SBA Megan A. Fairlie Professor of the Year Award [2024]
- Young Scholar of the Year at the Wallace Stegner Center at the S.J. Quinney College of Law at the University of Utah [2023]
- SEALS Call for Paper Award for *Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act* [2023]
- University of Arizona Grad Slam Finalist [2019]
- Presidential Award for the University of Arizona 27th Student Showcase [2019]
- Honorable Mention in the 2018 *Environmental Law and Policy Annual Review* (ELPAR) as one of the top environmental policy-relevant articles from 2016-2017 for *Hybridizing Law: A Policy for Hybridization Under the Endangered Species Act* [2018]
- Genetics Representative for the GIDP Research Showcase [2018]
- 2nd Place -2017 Endangered Species Law Student Writing Competition for *Canis rufus is Dead! Long Live the Red Wolf!* [2017]
- Sol Resnick Water Resources Fellow [2017]
- Agnese Nelms Haury Social Justice Law Fellow [2017]
- Graduate and Professional Student Council Travel Grant [2017]
- Carson Scholarship, Institute of the Environment Fellow [2016]
- Graduate and Professional Student Council Research Grant 2014]

SELECTED CONFERENCES AND WORKSHOPS

Litigating Predator Management

- Willamette University College of Law Faculty Workshop [April 2024]
- Mike Pappas' Online Environmental Workshop [March 2024]
- Wallace Stegner Center Young Scholar Lecture at the S.J. Quinney College of Law at the University of Utah (available here: <https://www.youtube.com/watch?v=az-p9hZ2Yr8>) [November 2023]
- SEALS New Scholars Workshop – Environmental Law and Housing Justice Panel [July 2023]
- Works-in-Progress Session at the Natural Resources Law Teachers Institute [June 2022]

Interspecific Variation and the ESA

- SEALS Your Next article (New Scholars Workshop) [July 2023]
- 2nd Starved Rock Environmental Law Workshop at Loyola Chicago Law School [October 2022]

Building Better Species: Assisted Evolution, Genetic Engineering, and the Endangered Species Act

- SEALS Call for Papers Award Presentation [July 2023]
- Harvard | Stanford | Yale Junior Faculty Forum [June 2023]
- University of Miami Law Legal Theory Workshop [April 2023]
- Northwestern, Penn, and Stanford 5th Junior Faculty Forum for Law and STEM [October 2022]

- University of Baltimore School of Law Faculty Research and Development Series [March 2022]
- Twelfth Annual Colloquium on Environmental Scholarship at Vermont Law School [September 2021]
- 2021 Future Environmental Law Professors Workshop at Pace University [September 2021]
- Works-in-Progress Session at the Natural Resources Law Teachers Institute [June 2021]
- 8th Sabin Colloquium on Innovative Environmental Law Scholarship at Columbia University [May 2021]

Innovation for the Next 50 Years: ESA at 50

- Florida International University 2nd Annual Environment Forum [March 2023]

Wildlife and Infrastructure Conflict

- University of Florida Public Interest Environmental Law Conference [February 2023]

Integrating Science and Law Through the Lens of Conservation Genetics

- University of Central Florida Biology Department Seminar [November 2022]

Feeding the World: How Changes in Biotech Regulation Can Jump-Start the Second Green Revolution and Diversify the Agricultural Industry

- 2020 Future Environmental Law Professors Workshop at Pace University [September 2020]

Shepherding Students from the Lab to Publication: Teaching Students Conservation Genetics in the Laboratory Setting with Actual Case Studies

- 2020 Joint Meeting – AZ and NM American Fisheries and Wildlife Society [February 2020]

Using Genomics to Delineate Subspecies and Inform Translocations of Black-Tailed Prairie Dogs

- University of Arizona Grad Slam Finals [April 2019]
- University of Arizona 27th Student Showcase [February 2019]
- University of Arizona Graduate Interdisciplinary Program Showcase [December 2018]
- University of Arizona Science Café Series at Borderlands Brewery [November 2017]
- The Wildlife Society's 24th Annual Meeting, Albuquerque, NM [September 2017]

PumaPlex100: An Expanded Tool for Puma SNP Genotyping with Low-yield DNA

- 2016 Joint Meeting – AZ and NM American Fisheries and Wildlife Society [February 2016]
- Graduate and Professional Student Council (GPSC) Grant Winner's Expo [October 2015]
- 11th Mountain Lion Workshop, [May 2014]

The Effects of Harvest on the Sexual Structure and Genetic Diversity of a Puma Population

- 2016 NSF EID Interdisciplinary Retreat [August 2016]

UCLA LaKretz Conservation Genomics Workshop, [March 2015]

- Accepted and attended on invitation

PROFESSIONAL SERVICE

Future Environmental Law Professors Workshop at the Haub School of Law at Pace University [2022-2023]

- Invited to participate on the panel and serve as an interviewer for mock interviews and job talks for prospective environmental law professors currently on the market.

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 GDP executive committee that is responsible for running the department, departmental seminars, and student recruiting.

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.

STUDENT ADVISING

LL.M. Theses

- Craig Simmonds – The Sacrifice Zones of the Southeast: Siting Prisons on Remediated Mountaintop Removal Sites in Appalachia (2022)
- Erica Peralta – Save the Plants to Save the Planet: How Genetic Engineering Provided the Science but Current Regulations Inhibit the Process (2022)

MEDIA

- Angela Nicoletti, *What the recent Supreme Court ruling could mean for U.S. wetlands*, FIU News (June 14, 2023), <https://news.fiu.edu/2023/supreme-court-ruling-sackett-v-epa-what-it-means-for-wetlands>
- Kylie Mohr, *Is the Recovering America's Wildlife Act ready for climate action?*, HIGH COUNTRY NEWS (Aug. 31, 2022), <https://www.hcn.org/articles/north-wildlife-is-the-recovering-americas-wildlife-act-ready-for-climate-action>
- Alejandra Cardenas Cuestas, *Endangered or Not? JD/PhD Student Gains Recognition for Work Hybridizing Law and Biology*, JAMES E. ROGERS COLLEGE OF LAW NEWS (Feb. 14, 2018), <https://law.arizona.edu/news/2018/02/endangered-or-not-jdphd-student-gains-recognition-work-hybridizing-law-and-biology>

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.

BAR ADMISSIONS

Arizona

New York

PEER REVIEWER AND JOURNAL EDITOR

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

People and Nature – Associate Editor and Reviewer

PLOS One - Reviewer