

Dr. Richard J Kline

The University of Texas Rio Grande Valley
 School of Earth, Environmental, and Marine Sciences
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Education

PhD, The University of Texas - Austin, 2010
 Major: Marine Science

MS, University of Florida, 2004
 Major: Fisheries and Aquatic Sciences

BS, The University of Texas - Austin, 2001
 Major: Biology (Ecology, Evolution and Behavior)

Employment

Academic - Administrative Assignments

Academic - Administrative Assignments, Professor, UTRGV, (2021)

Academic - Administrative Assignments, Associate Professor, UTRGV, (2017 - 2021)

Academic - Administrative Assignments, Program Director, OCES, (2016 - 2018)

Academic - Administrative Assignments, Assistant Professor, UTRGV, (2015 - 2017)

Academic - Administrative Assignments, Assistant Professor, UT-Brownsville, (2011 - 2015)

Academic - Post-Secondary

Academic - Post-Secondary, Postdoctoral Fellow, University of Texas Marine Science Institute, (2011 - 2011)

Licensures and Certifications Start

Wave Glider Management System Operator, Liquid Robotics, Inc., (June 2016)

Certified Nitrox Diver, Technical Diving International, (June 1997)

Diving Rescue Techniques, National Association of Underwater Instructors (NAUI), (March 1990)

Publications

Journal Article, Academic Journal

Zarina Sheikh and Jamie Langbein and Kevin Ryer and MD Rahman and Christopher Gabler and John Young and Richard Kline. Use and effectiveness of wildlife exits designed for ocelots and other mesocarnivores on a South Texas highway. Lausanne: *Frontiers in Ecology and Evolution*. (October (4th Quarter/Autumn)) 11,

Sakib Rishan and Richard Kline and MD Rahman. Applications of environmental DNA (eDNA) to detect subterranean and aquatic invasive species: A critical review on the challenges and limitations of eDNA metabarcoding.: *Environmental Advances*. (July (3rd Quarter/Summer)): 100370.

<https://www.sciencedirect.com/science/article/pii/S2666765723000303>

Adam Sanjar and Drew Davis and Richard Kline. Evidence of an established population of *Cherax quadricarinatus* (von Martens, 1868) in south Texas.: *BioInvasions Records*. (January (1st Quarter/Winter)) 12, : 284-291.

https://www.reabic.net/journals/Bir/2023/1/BIR_2023_Sanjar_etal.pdf

MD Rahman and Mohammad Billah and Richard Kline and MD Rahman. Effects of elevated temperature on 8-OHdG expression in the American oyster (*Crassostrea virginica*): Induction of oxidative stress biomarkers, cellular apoptosis, DNA damage and γ H2AX signaling pathways.: *Fish and Shellfish Immunology Reports*. (December) 4, : 100079.

[https://reader.elsevier.com/reader/sd/pii/S2667011922000299?](https://reader.elsevier.com/reader/sd/pii/S2667011922000299?token=CA40AF1B63A9EFAD711A0FDCA5484F9638407567210AC14D97BAF05CBA17FDE922EC783639AA860AB4BD5A11A3F4E8D5&originRegion=u:)

[token=CA40AF1B63A9EFAD711A0FDCA5484F9638407567210AC14D97BAF05CBA17FDE922EC783639AA860AB4BD5A11A3F4E8D5&originRegion=u:](https://reader.elsevier.com/reader/sd/pii/S2667011922000299?token=CA40AF1B63A9EFAD711A0FDCA5484F9638407567210AC14D97BAF05CBA17FDE922EC783639AA860AB4BD5A11A3F4E8D5&originRegion=u:)
[east-1&originCreation=20230425192554](https://reader.elsevier.com/reader/sd/pii/S2667011922000299?token=CA40AF1B63A9EFAD711A0FDCA5484F9638407567210AC14D97BAF05CBA17FDE922EC783639AA860AB4BD5A11A3F4E8D5&originRegion=u:)

Karl Berg and Rory Eggleston and Soraya Delgado and Nurialby Viloría and Richard Kline and Astolfo Mata and Hilda Guerrero and Steven Beissinger. Vocal babbling in a wild parrot show life history and endocrine affinities with human infants. London: *Proceedings of the Royal Society B*. (June) 289, : 8.

Padraic Robinson and Drew Davis and Sean Collins and Richard Kline. Defining the current distribution of the imperiled Black-spotted Newt across south Texas, USA.: *Global Ecology and Conservation*. (April (2nd Quarter/Spring))

Krista Ruppert and Drew Davis and Md Rahman and Richard Kline. Development and assessment of an environmental DNA (eDNA) assay for a cryptic Siren (Amphibia: Sirenidae):. *Environmental Advances*. (April (2nd Quarter/Spring)) 7,

<https://www.sciencedirect.com/science/article/pii/S2666765721001344>

Krista Ruppert and Drew Davis and MD Rahman and Richard Kline. Development and assessment of an environmental DNA (eDNA) assay for a cryptic Siren (Amphibia: Sirenidae):. *Environmental Advances*. (January (1st Quarter/Winter))

Amy Bogolin and Drew Davis and Richard Kline and Abdullah Rahman. A drone-based survey for large, basking freshwater turtle species.: *PLOS One*. (October (4th Quarter/Autumn))

Thomas Yamashita and Trinity Livingston and Kevin Ryer and John Young and Richard Kline. Assessing Changes in Clusters of Wildlife Road Mortalities after the Construction of Wildlife Mitigation Structures.: *Ecology and Evolution*. (September)

<https://doi.org/10.1002/ece3.8053>

- Catheline Froehlich and Andres Garcia and Carlos Cintra-Buenrostro and David Hicks and Richard Kline. Structural differences alter residency and depth activity of Red Snapper (<i>Lutjanus campechanus</i>) at two artificial reefs.: *Fisheries Research*. (June) 242, : 106043.
- Michael Dance and Jay Rooker and Richard Kline and Antoinietta Quigg and Greg Stunz and R. Wells and Kirsten Lara and Jessica Lee and Robert Suarez. Importance of low-relief nursery habitat for reef fishes.: *Ecosphere*. (June) 12,
- Padraic Robinson and Drew Davis and Richard Kline. Geographic distribution: USA, Texas, Live Oak Co.: *Notophthalmus meridionalis* (Black-spotted Newt):. *Herpetological Review*. (September) 51, : 531.
- Daniel Alder and David Hicks and Richard Kline. The effect of small low-profile artificial patch reef footprint area on reef fish and Red Snapper recruitment.: *Marine and Coastal Fisheries*.
- MD Rahman and Richard Kline and Omar Vazques and Izhar Khan and Peter Thomas. Molecular characterization and expression of arginine vasotocin V1a2 receptor in Atlantic croaker brain: potential mechanisms of its downregulation by PCB77 .: *Journal of Biochemical and Molecular Toxicology*. (March)
- Amy Bogolin and Drew Davis and Krista Ruppert and Richard Kline and Abdullah Rahman. Pseudemys Gorzugi (Rio Grande Cooter) - Geographic Distribution.: *Herpetological Review*. (December) 50, : 745.
<https://ssarherps.org/publications/herpetological-review/>
- Ethan Getz and Richard Kline. Utilizing accelerometer telemetry tags to compare red snapper (*Lutjanus campechanus* [Poey, 1860]) behavior on artificial and natural reefs.: *Journal of Experimental Marine Biology and Ecology*. (October (4th Quarter/Autumn)) 519,
- Drew Davis and Krista Ruppert and Richard Kline. Siren Intermedia (Lesser Siren) - Geographic Distribution.: *Herpetological Review*. (March) 50, : 95-96.
- Krista Ruppert and Richard Kline and MD Rahman. Past, present and future perspectives of environmental DNA (eDNA) metabarcoding: a systematic review in methods, monitoring and application of global eDNA.: *Global Ecology and Conservation*. (February) 17, : 1-29.
<https://doi.org/10.1016/j.gecco.2019.e00547>
- Catheline Froehlich and Andres Garcia and Richard Kline. Daily Movement Patterns of Red Snapper (*Lutjanus campechanus*) on a Large Artificial Reef.: *Fisheries Research*. (January (1st Quarter/Winter)) 209, : 49-57.
- M. Rahnemoonfar and Abdullah Rahman and Richard Kline and Austin Greene. Automatic seagrass disturbance pattern identification on Sonar images.: *IEEE Journal of Oceanic Engineering*. (January (1st Quarter/Winter)) 44, : 1-10.
- Sean Graham and Richard Kline and David Steen and Crystal Kelehear. Description of an extant Salamander from the Gulf Coastal Plain of North America: the Reticulated Siren, *Siren reticulata*.: *PLoS One*. (December) 13, : 16.
- Maryam Rahnemoonfar and Abdullah Rahman and Richard Kline and Austin Greene. Automatic seagrass disturbance pattern identification on sonar images.: *IEEE Journal of Oceanic Engineering*. 44, : 132--141.
- Austin Greene and Abdullah Rahman and Richard Kline and MD Rahman. Side scan sonar: A cost-efficient alternative method for measuring seagrass cover in shallow environments.: *Estuarine, Coastal and Shelf Science*. 207, : 250--258.
- Austin Greene and Abdullah Rahman and Richard Kline and MD Rahman. Side scan sonar: a cost-efficient alternative method for measuring seagrass cover in shallow environments.: *Estuarine Coastal and Shelf Science*. (July (3rd Quarter/Summer)) 207, : 250-258.
- Evan Bare and Richard Kline. Natural History Notes: *Notophthalmus meridionalis* (Black-spotted Newt) Habitat Use.: *Herpetological Review*. (December) 48, : 827-828.
- Michael Bollinger and Richard Kline. Validating Sidescan Sonar as a Fish Survey Tool Over Artificial Reefs.: *Journal of Coastal Research*. (November) 33, : 1397-1407.
<http://www.jcronline.org/doi/full/10.2112/JCOASTRES-D-16-00174.1>
- Rachel Arney and Catheline Froehlich and Richard Kline. Recruitment patterns of juvenile fish at an artificial reef in the Gulf of Mexico. Bethesda, MD: *AFS Marine and Coastal Fisheries*. (March) 9, : 79-92.
- Richard Kline and Holt Joan and Khan K.. Arginine Vasotocin V1a2 Receptor and GnRH Co-Localize in preoptic neurons of the Sex Changing Grouper, *Epinephelus adscensionis*. Amsterdam: *General and Comparative Endocrinology*. 225, : 33-44.
- Richard Kline and Daryl Parkyn and Debra Murie. Empirical Modeling of Solid-Blocking Effect in a Blazka Respirometer for Gag, a Large Demersal Reef Fish. Alhambra, CA: *Advances in Zoology and Botany*. (December) 3, : 193-202.
- Richard Kline and Catheline Froehlich. Using Fish Population Metrics to Compare the Effects of Artificial Reef Density. San Francisco, CA: *PLoS One*. (September) 10, : 16.
- Lin Huffman and Lauren O'Connell and Carly Kenkel and Richard Kline and Izhar Khan and Hans Hofmann. Distribution of nonapeptide systems in the forebrain of an African cichlid fish, *Astatotilapia burtoni*. Amsterdam: *Journal of Chemical Neuroanatomy*. (July (3rd Quarter/Summer)) 44, : 86-97.
- Richard Kline and Lauren O'Connell and Hans Hofmann and G. Holt and Izhar Khan. The distribution of an AVT V1a receptor in the brain of a sex changing fish, *Epinephelus adscensionis*.: *Journal of Chemical Neuroanatomy*. (June) 42, : 72-88.
<http://linkinghub.elsevier.com/retrieve/pii/S0891061811000603>
- Richard Kline and Izhar Khan and G. Holt. Behavior, Color Change and Time for Sexual Inversion in the Protogynous Grouper (*Epinephelus adscensionis*):. *PLoS ONE*. (May) 6, : e19576.
<http://dx.plos.org/10.1371/journal.pone.0019576>
- Richard Kline and Izhar Khan and Kiyoshi Soyano and Megumi Takushima. Role of Follicle-Stimulating Hormone and Androgens on the Sexual Inversion of Sevenband Grouper *Epinephelus septemfasciatus*.: *North American Journal of Aquaculture*. (April (2nd Quarter/Spring)) 70, : 266-272.
<http://www.tandfonline.com/doi/abs/10.1577/A07-033.1>

Conference Proceedings

Maryam Rahnemoonfar and Masoud Yari and Abdullah Rahman and Richard Kline. The first automatic method for mapping the pothole in seagrass.: 73--80.

Maryam Rahnemoonfar and M. Yari and Amy Ramirez and Richard Kline. The First Automatic Method for Mapping the Pothole in Seagrass.: *Institute of Electrical and Electronics Engineers*. (July (3rd Quarter/Summer)): 267-274.

David Hicks and Carlos Cintra and Richard Kline and Dale Shively and Brooke Shipley-Lozano. Artificial reef fish survey methods: counts vs. log-categories yield different diversity estimates.: *Proceedings of the 68th Gulf and Caribbean Fisheries Institute*. 2016, : 74-79.

Linda Jordan and David Hicks and Richard Kline and Maria Cooksey. Mesophotic Reef Fish Communities of Two South Texas Relic Coral-Algal Banks: North Hospital and Hospital.: *Proceedings of the 68th Gulf and Caribbean Fisheries Institute*.: 66-73.

Alexandro Trevino and Karen Martirosyan and Richard Kline. Thermite Reaction to Produce Artificial Reefs.

Michael Bollinger and Richard Kline. Validating side scan sonar as a fish survey tool over artificial reefs in the Gulf of Mexico.: *Journal of the Acoustical Society of America*. (April (2nd Quarter/Spring)) 137, : 2334.
scitation.aip.org/content/asa/journal/jasa/browse

Izhar Khan and J. Mohamed and Richard Kline and Maelanie Galima. Co-localization of GPR54 with three GnRHs and quantification of GPR54 protein in Atlantic croaker brain. Saint-Malo, France: *Société Française d'Ichtyologie*. 32, : 25-27.
sfi.mnhn.fr/cybium/numeros/2008/322%20suppl%20SRPF/contents322Suppl.html

Under Submission

Journal Article, Academic Journal

Celia McLean and Astolfo Mata and Richard Kline and Karl Berg. Corticosterone-induced increases in vocal complexity: an adaptive role of the Hypothalamic-Pituitary-Adrenal axis in vocal learning?.: *Journal of Neuroendocrinology*.

Contracts, Grants and Sponsored Research

Richard Kline. Grant Low Profile Artificial Reef Research TPWD State Wildlife Grants Federal , 153846\$ (December 2023 - December 2026)

Abdullah Faizur Rahman and Richard J Kline and MD SAYDUR Rahman. Grant Remote Sensing-Based Mapping, Suitability Modeling, and Carbon Sequestration Analysis of Potential Oyster Mariculture Sites Along the Texas Coast Texas Sea Grant State , 394003\$ (January 2024 - December 2025)

Richard J Kline and MD SAYDUR Rahman. Contract Development and Application of an eDNA assay for Southern Flounder (Paralichthys lethostigma) USFWS / TPWD State Wildlife Grant Federal , 99999\$ (June 2022 - December 2025)

Richard J. Kline. Contract Ocelot and Jaguarundi Monitoring Project: Monitoring Wildlife Crossings, Cattle guards, and Fencing on State Highway (SH 100) Texas Department of Transportation State , 985033.24\$ (August 2022 - August 2024)

Richard J Kline. Grant Carbon Sequestration in the RGV Reef Friends of the RGV Reef , 160000\$ (April 2022 - August 2024)

Richard J. Kline. Contract Sidescan Sonar Surveys and Evaluation of Nearshore Reef Site Materials at the Rio Grande Valley Reef Texas Parks and Wildlife Department State , 36731\$ (August 2020 - August 2024)

Richard J. Kline. Contract Responses of the Snapper Grouper Complex to Artificial Reef Configurations US Fish and Wildlife Service via Texas Parks and Wildlife State Wildlife Grant (TPWD SWG) Federal , 99999\$ (August 2020 - December 2023)

Richard J Kline. Grant Research to Enhance Artificial Reef Function Earl C. Sams Foundation , 30000\$ (March 2022 - March 2023)

Richard J Kline. Grant Student Research on the Rio Grande Valley Reef Trull Foundation , 8200\$ (February 2022 - March 2023)

Richard J Kline and Abdullah Faizur Rahman. Contract Black Spotted Newt State-wide Habitat and Occurrence Assessment Texas Comptroller of Public Accounts State , 560078.7\$ (August 2018 - December 2022)

Richard J. Kline. Contract Monitoring of Wildlife Crossings and Fencing on FM 106 in Willacy County Texas Department of Transportation State , 784352.94\$ (August 2020 - August 2022)

Richard J. Kline. Contract Ocelot and Jaguarundi Monitoring Project: Monitoring Wildlife Crossings, Cattle guards, and Fencing on State Highway (SH 100) Texas Department of Transportation State , 786033.24\$ (August 2020 - August 2022)

Jay Rooker and Michael Dance and Richard J. Kline and Michelle Sluis and Gregory Stunz and David Wells. Contract Habitat Use and Movement of Tarpon along the Texas Coast Bonefish and Tarpon Trust Foundation , 82060\$ (July 2018 - March 2022)

Richard J Kline and MD SAYDUR Rahman. Grant Movements, Behavior, and Reproductive Condition of Two Snook Species in South Texas US Fish and Wildlife Service via Texas Parks and Wildlife Department (TPWD SWG) Federal , 100000\$ (August 2018 - August 2021)

Richard J. Kline. Grant Surveys of Artificial Reef Patches Composed of Concrete Railroad Ties Friends of the Rio Grande Valley Reef Foundation , 30000\$ (February 2020 - May 2021)

Richard J Kline. Contract Ocelot and Jaguarundi Monitoring Project: Monitoring Wildlife Crossings, Cattle guards, and Fencing on State Highway 100 (SH 100) Texas Department of Transportation State , 765036.44\$ (August 2018 - August 2020)

Abdullah F Rahman and Richard J Kline and MD SAYDUR Rahman. Contract Endangered Species Research Projects on Survey Methods for the Rio Grande Cooter Texas Comptroller of Public Accounts State , 248478.37\$ (September 2018 - December 2019)

Abdullah F Rahman and Richard Kline and MD S Rahman. Contract Development and Application of a Novel Suite of Field Survey Methods to Inform Conservation of the Rio Grande cooter Pseudemys gorzugi Texas Comptroller of Public Accounts State , 248478.37\$ (August 2018 - December 2019)

Richard J Kline. Contract Sidescan Sonar Surveys and Evaluation of Nearshore Reef Site Materials in the Gulf of Mexico off Texas Texas Parks and Wildlife Department State , 35125\$ (July 2018 - December 2019)

Karl S Berg and Steven R. Beissinger and Richard J Kline and Virginia Sanz D'Angelo and Astolfo Mata Betancourt. Grant Sibling influences on vocal babbling and vocal development National Science Foundation Federal , 571373\$ (August 2015 - October 2019)

Jay Rooker and Greg Stuntz and Richard J Kline. Grant Restoring and Enhancing Structurally Complex Nursery Habitat to Enhance Reef Fish Populations Texas One Gulf Center of Excellence State , 223752\$ (August 2016 - August 2018)

Richard J Kline. Contract Ocelot and Jaguarundi Monitoring Project: Evaluating the Effectiveness of Wildlife Crossings, Cattle guards, and Fencing on State Highway 100 (SH 100). Texas Department of Transportation State , 646529\$ (July 2016 - August 2018)

Richard J Kline and MD SAYDUR Rahman. Grant Defining the range of the South Texas Siren, development and validation of an eDNA assay for use with this species US Fish and Wildlife Service via Texas Parks and Wildlife Department (TPWD-SWG) Federal , 99983\$ (June 2016 - August 2018)

David W Hicks and Carlos E Cintra and Richard J Kline. Contract Artificial reef biological monitoring and research program FY 2016-2017; now "Artificial reef biological monitoring and research program FY 2016-2018" Texas Parks & Wildlife Department State , 633323\$ (August 2015 - August 2018)

Richard J Kline and Jennifer Stabile and Dante Fenolio and Jaime L. Pena. Grant Assessment of Relative Abundance, Emerging Pathogen Prevalence, and Genetic Determination for the Black Spotted Newt (*Notophthalmus meridionalis*) in Texas and in Tamaulipas US Fish and Wildlife Service via Texas Parks and Wildlife Department (TPWD SWG) Federal , 138518\$ (December 2014 - August 2018)

David W Hicks and Carlos E Cintra and Richard J Kline. Grant Rio Grande Valley Reefing Site Pre- and Post-Deployment Monitoring Texas Parks and Wildlife Department Artificial Reef Program State , 308841\$ (September 2015 - September 2017)

Abdullah Faizur Rahman and Richard J Kline and Brigitte Goza. Grant Clean Valley, Clean Gulf: An Innovative Marine Debris Prevention, Education and Outreach Program for the Rio Grande Valley National Oceanic and Atmospheric Administration Federal , 96625\$ (January 2015 - August 2017)

John A Breier and Richard J Kline and David W Hicks. Grant A Wave Glider for studies of biofouling and ocean productivity Department of Defense HBCU/MI Instrumentation Federal , 452029\$ (October 2015 - May 2017)

Richard J Kline and Lucia Beatriz Carreon Martinez. Grant Population genetics of the threatened South Texas Siren (large form SP1) Texas Parks and Wildlife Department State , 64121\$ (August 2013 - December 2015)

David W. Hicks and Carlos E. Cintra-Buenrostro and Richard J. Kline. Contract Artificial reef biological monitoring and research program FY 2014-2015 Texas Parks & Wildlife Department State , 449986.00\$ (August 2013 - October 2015)

Richard J. Kline. Grant ISU - UTB Collaborative Research Project: Development of a Buoy-Mounted Measurement Platform for Offshore Wind Energy Resource and Environmental Assessment Iowa State University of Science and Technology State , 21047\$ (January 2014 - July 2015)

Richard J. Kline. Grant Analysis of Ocelot Crossings on General Brant Boulevard in Cameron County, Texas Texas Parks and Wildlife Department (TPWD-SWG) State , 43131\$ (July 2013 - March 2014)

Richard J. Kline. Grant Population Genetics of the Threatened South Texas Siren (Large Form SP1) Texas Parks and Wildlife Department (TPWD-SWG) State , 64120\$ (July 2013 - December 2013)

Richard J. Kline. Grant The Port Mansfield Culvert Reef Over Time: Does Culvert Patch Size Really Matter to Our Fish? Texas Parks and Wildlife Department (TPWD) State , 28000\$ (May 2012 - December 2013)

Richard J. Kline. Grant The Port Mansfield Culvert Reef Over Time: Does Culvert Patch Size Really Matter to Our Fish? Coastal Conservation Association (CCA) Foundation , 14000\$ (May 2012 - December 2013)

Richard J. Kline and David W. Hicks and Carlos E. Cintra-Buenrostro. Contract Repurposing the UT-Brownsville Research Vessel M/V Vollert for Monitoring Artificial Reefs Texas Parks & Wildlife Department (TPWD) State , 76000\$ (August 2012 - December 2013)

Richard J. Kline. Grant Population Genetics of the South Texas Siren (Large Form SP1): Funds for the development of microsatellite markers Texas Parks and Wildlife Department (TPWD-HLLP) State , 5000\$ (July 2013 - August 2013)

Awards and Honors

Leadership

Executive Vice President's Appreciation Award for Leadership in New Program Development. Executive VP for Research and New Program Development (May 2018)

Mentoring

Supervisor of the Year Award Nominee. UTRGV Career Center (2018)

Scholarship/Research

Frances Rusteberg Faculty Fellow. University of Texas at Brownsville (February 2012)

Service, Community

ICOET 2021 Stewardship Award for Local-State-or Provincial organizations. International Conference on Ecology & Transportation (September 2021)

Teaching

Excellence in Teaching. College of Science, Mathematics, and Technology (2013)

Presentations

Kevin W. Ryer and Richard J Kline."Multiyear post-construction monitoring of two ocelot road mortality mitigation projects in southern Texas".International Conference on Ecology & Transportation (ICOET), Vermont Agency of Transportation, Burlington, Vermont. (June 8, 2023)

Jamie Langbein and Richard J Kline."Evaluating the Effectiveness of Redesigned Wildlife Exits Along a South Texas Highway".International Conference on Ecology & Transportation (ICOET), Vermont Agency of Transportation, Burlington, Vermont. (June 6, 2023)

Anna Rose Mehner and Richard J Kline."Influence of Traffic and Noise on Bobcat and Coyote Behavior and Use of Wildlife Crossing Structures in Southern Texas".International Conference on Ecology & Transportation (ICOET), Vermont Agency of Transportation, Burlington, Vermont. (June 6, 2023)

Elizabeth A. Saldo and Richard J Kline."The Effect of Road Mitigation Structures on the Texas Tortoise (*Gopherus berlandieri*)".International Conference on Ecology & Transportation (ICOET), Vermont Agency of Transportation, Burlington, Vermont. (June 6, 2023)

Madison Nadler and Richard J Kline."Capturing Herpetofauna and Small Mammals with Camera Traps and Infrared Trip Wire Systems".International Conference on Ecology & Transportation (ICOET), Vermont Agency of Transportation, Burlington, Vermont. (June 5, 2023)

Richard J Kline."Movements and Freshwater Use of Common Snook (*Centropomus undecimalis*) in South Texas".Latin America and Caribbean Fisheries Congress, American Fisheries Society, Cancun, Mexico. (May 17, 2023)

Sakib T Rishan and Richard J Kline and MD SAYDUR Rahman."Applications of environmental DNA (eDNA) to detect subterranean and aquatic invasive species: Prospects and challenges of eDNA metabarcoding.".UTRGV College of Science Annual Research Conference , UTRGV, Brownsville. (April 28, 2023)

Angelica R. Tamayo and Richard J Kline."Assessing the Effectiveness in Habitat Connectivity of Different Designs of Wildlife Underpass Crossing Structures".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Madison Nadler and Richard J Kline."Camera Traps and Infrared Trip Wires Effectively Capture Herpetofauna and Small Mammals".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Allison White and Richard J Kline."Estimation of Fish Biomass on the RGV Reef Using Split Beam Sonar".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Rupesh Maharjan and Richard J Kline."Habitat Suitability Analysis of Fishing cat (*Prionailurus viverrinus*) in Northern sector of Chitwan National Park using a geospatial approach".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Annie Zeiler and Richard J Kline."Impacts of Bathymetry and Current Velocities on Fish Assemblages of the RGV Reef".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Anna Rose Mehner and Richard J Kline."Influence of Traffic on Bobcat and Coyote Behavior at Wildlife Crossing Structures along Two Highways in South Texas".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Jolie Gonzalez and Richard J Kline."Monitoring the Effects of Wildlife Crossings on Bobcat Range in South Texas".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Jamie Langbein and Richard J Kline."Preliminary Results of the Effectiveness of Redesigned Wildlife Exits along a South Texas Highway".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Marissa Lamb and Richard J Kline."Sonar Mapping and Fish Biomass Estimates of East Bank Ridge, Gulf of Mexico".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Michelle King and Richard J Kline."The potential for Carbon Sequestration in a Nearshore Artificial Reef".UTRGV College of Sciences Annual Research Conference, UTRGV College of Sciences, (April 28, 2023)

Marissa Lamb and Richard J Kline."Mapping and fish abundance estimates of East Bank Ridge, Gulf of Mexico, using sonar imaging".2023 Annual Meeting of the Texas Chapter of the American Fisheries Society, Texas Chapter of the American Fisheries Society, Corpus Christi, TX. (February 24, 2023)

Marybeth Weihbrecht and Richard J Kline."Red Snapper size, growth, and movement in the Rio Grande Valley Artificial Reef".2023 Annual Meeting of the Texas Chapter of the American Fisheries Society, Texas Chapter of the American Fisheries Society, Corpus Christi, TX. (February 24, 2023)

Michelle King and Richard J Kline."The potential for carbon sequestration in a nearshore artificial reef".2023 Annual Meeting of the Texas Chapter of the American Fisheries Society, Texas Chapter of the American Fisheries Society, Corpus Christi, TX. (February 23, 2023)

Madison Nadler and Kevin Ryer and John Young and Richard J Kline."Effectiveness of camera traps and infrared trip wire positioning in capturing herpetofauna and small mammals".59th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Houston, TX. (February 23, 2023)

Anna Mehner and John Young and Richard J Kline."Influence of Traffic on use of Wildlife Crossing Structures by Bobcats and Coyotes in Southern Texas".59th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Houston, TX. (February 23, 2023)

Madison Nadler and Kevin Ryer and John Young and Richard J Kline."Assessing Amphibian Use of Flooded Wildlife Crossings with eDNA".59th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Houston, TX. (February 22, 2023)

Jamie Langbein and Kevin Ryer and John Young and Richard J Kline."Evaluating the Effectiveness of Redesigned Wildlife Exits Along a South Texas Highway".59th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Houston, TX. (February 22, 2023)

Jolie Gonzalez and Jamie Langbein and Caitlin Brett and Victoria Hanley and John Young and Richard J Kline."Monitoring the Effects of Wildlife Crossings on Bobcat Range in South Texas".59th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Houston, TX. (February 22, 2023)

Anna Mehner and John Young and Richard J Kline."Noisescape along Wildlife Road Mortality Mitigation Areas in Southern Texas".59th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Houston, TX. (February 22, 2023)

Richard J Kline."Pelican Mortality along State Highway 48".UTRGV Pelican Mortality SH 48, Texas Department of Transportation, Virtual. (May 26, 2022)

Keegan Angerer and Richard J Kline."A Comparison of Fish Community Assemblages at High- and Low-profile Artificial Reefs in the Western Gulf of Mexico Using ROV Surveys".2022 Annual Meeting of the Texas Chapter of the American Fisheries Society (TCAFS), Texas Chapter of the American Fisheries Society, Hunt, Texas. (May 18, 2022)

- Greta Hayden-Pless and Richard J Kline."A Study Design for Evaluating the Productivity of the Rio Grande Valley Reef Artificial Reef Using Time Lapse Camera Data".2022 Annual Meeting of the Texas Chapter of the American Fisheries Society (TCAFS), Texas Chapter of the American Fisheries Society, Hunt, Texas. (May 18, 2022)
- Marissa Lamb and Richard J Kline."Mapping and Initial Characterization of East Bank Ridge, Gulf of Mexico, to determine current state, fish community, and impacts of illegal fishing practices".2022 Annual Meeting of the Texas Chapter of the American Fisheries Society (TCAFS), Texas Chapter of the American Fisheries Society, Hunt, Texas. (May 17, 2022)
- Kathrene Lo and Richard J Kline."Rio Grande Valley Reef Artificial Structures: Its Longevity and Characterization".2022 Annual Meeting of the Texas Chapter of the American Fisheries Society (TCAFS), Texas Chapter of the American Fisheries Society, Hunt, Texas. (May 17, 2022)
- Alexa Campos and Adam Sanjar and Caitlin Brett and John H. Young, Jr. and Richard J Kline."Comparison of Night and Day Road Mortality Detections in South Texas".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Anna Rose Mehner and John H. Young, Jr. and Richard J Kline."Comparison of Traffic and Noise Levels along Two Highways in Southern Texas".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Caitlin K. Brett and John H. Young, Jr. and Richard J Kline."Determining Wildlife Crossing Structure Performance Compared to Wildlife Movement through Surrounding Habitat".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Adam Sanjar and Kevin Ryer and John H. Young, Jr. and Richard J Kline."Effects of Road Mortality Mitigation Structures on Rodent Community Composition, Rodent Activity, and Predator-prey Dynamics in South Texas".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Thomas J. Yamashita and Humberto L. Perotto-Baldivieso and Zachary M. Wardle and Richard J Kline and Michael E. Tewes and John H. Young, Jr. and Jason V. Lombardi."Influence of Fine-scale Landscape and Vegetation Structure on Bobcat Use of Highway Wildlife Crossings in Cameron County, Texas".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Madison T. Nadler and Kevin Ryer and John H. Young, Jr. and Richard J Kline."Modification to Existing Wildlife Guards to Prevent Wildlife Use along a South Texas Highway".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Jamie Langbein and Kevin Ryer and John H. Young, Jr. and Richard J Kline."Monitoring the Effectiveness of Redesigned Wildlife Exits along a South Texas Highway".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- Victoria Hanley and Zarina Sheikh and John H. Young, Jr. and Richard J Kline."Utilizing Individual Identification to Evaluate Usage of Bobcats at Wildlife Exits on a South Texas Highway".58th Annual Meeting of the Texas Chapter of the Wildlife Society, Horseshoe Bay, Texas. (February 25, 2022)
- T. Miles Hopkins and Kevin Ryer and Tiffany Cogan and John H. Young, Jr. and Richard J Kline."Potential Use of Active Infrared External Tripwires (AIR) for Monitoring Wildlife Crossing Structures and Comparison to Internal Passive Infrared (PIR) Trigger Systems".International Conference on Ecology & Transportation (ICOET), Virtual. (September 29, 2021)
- Adam Sanjar and Kevin Ryer and John H. Young, Jr. and Richard J Kline."Road Mortality Mitigation Structure Impacts on Rodent Community Composition and Activity in South Texas".International Conference on Ecology & Transportation (ICOET), Virtual. (September 29, 2021)
- Zarina Sheikh and Richard J Kline and Kevin Ryer and John H. Young, Jr.. "Estimating the Percentage of Wildlife that Escape the Roadway Using Wildlife Exits Along State Highway 100 in South Texas ".International Conference on Ecology & Transportation (ICOET), Virtual. (September 28, 2021)
- T. Miles Hopkins and Kevin Ryer and John H. Young, Jr. and Richard J Kline."Estimating the Performance and Permeability of Wildlife Crossing Structures on a South Texas Highway".International Conference on Ecology & Transportation (ICOET), Virtual. (September 28, 2021)
- Caitlin K. Brett and T. Miles Hopkins and John H. Young, Jr. and Richard J Kline."Evaluating Wildlife Responses to Localized Mitigation Fencing Structures".International Conference on Ecology & Transportation (ICOET), Virtual. (September 28, 2021)
- Anna Mehner and T. Miles Hopkins and Kevin W. Ryer and John H. Young, Jr. and Richard J Kline."Traffic Influences on Wildlife Interactions at Wildlife Crossing Structures along FM 106 in Cameron County, Texas".International Conference on Ecology & Transportation (ICOET), Virtual. (September 28, 2021)
- Victoria Hanley and T. Miles Hopkins and John H. Young, Jr. and Richard J Kline."Comparison of Methods for Identifying Bobcats to Individual at Road Mitigation Structures".International Conference on Ecology & Transportation (ICOET), Virtual. (September 23, 2021)
- Thomas J. Yamashita and T. Miles Hopkins and Anna Rivera Roy and Kevin Ryer and John H. Young, Jr. and Richard J Kline."Temporal Partitioning as a Means for Wildlife to Persist around a Road in South Texas".International Conference on Ecology & Transportation (ICOET), Virtual. (September 23, 2021)
- Zarina Sheikh and Richard J. Kline and Kevin Ryer and John H. Young, Jr.. "Determining the Effectiveness of Wildlife Exits Along A South Texas Highway".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 26, 2021)
- T. Miles Hopkins and Kevin Ryer and John H. Young, Jr. and Richard J. Kline."Estimating the Performance and Permeability of a South Texas Road Ecology Project".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 26, 2021)
- Thomas John Yamashita and T. Miles Hopkins and Anna D. Rivera roy and Kevin Ryer and John H. Young, Jr. and Richard J. Kline."Temporal Partitioning as A Means for Wildlife to Persist Around A Road in South Texas".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 26, 2021)
- Padraic S. Robinson and Drew R. Davis and Richard J. Kline."Development of an Environmental DNA Assay to Detect the State Threatened Black-spotted Newt".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 25, 2021)

- Sean M. Collins and Drew R. Davis and Richard J. Kline."Application of Environmental DNA (eDNA) Metabarcoding in South Texas".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 24, 2021)
- Bradley E. Beer and Kevin Ryer and John H. Young, Jr. and Richard J. Kline."Improving Wildlife Road Mortality Video Survey Methodology".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 24, 2021)
- Caitlin K. Brett and T. Miles Hopkins and John H. Young, Jr. and Richard J. Kline."Influence of Wildlife Crossing Structure Characteristics on South Texas Wildlife".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 24, 2021)
- Anna Rose Mehner and T. Miles Hopkins and John H. Young, Jr. and Richard J. Kline."Species Richness at Wildlife Crossing Structures Compared to Right-Of-Way Cameras Along FM 106 in Cameron county, Texas".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 24, 2021)
- Adam Sanjar and Kevin Ryer and John H. Young, Jr. and Richard J. Kline."The Effect of Road Mortality Mitigation Structures on Rodent Abundance and Community Composition in South Texas".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 24, 2021)
- Victoria A. Hanley and T. Miles Hopkins and John H. Young, Jr. and Richard J. Kline."Wildlife Avoidance Behavior at Wildlife Crossing Structures in South Texas".57th Annual Meeting of the Texas Chapter of the Wildlife Society, Online. (February 24, 2021)
- Jonathan Truett Cawfield and Richard J. Kline."Accelerometer Telemetry of Two Snook Species in the Bahia Grande and Surrounding Waters of South Texas".2021 Annual Meeting of the Texas Chapter of the American Fisheries Society (TCAFS), Texas Chapter of the American Fisheries Society, Online. (February 4, 2021)
- Connor Gallagher and Richard J. Kline."Development of an Autonomous Tracking Method for Common Snook (*Centropomus undecimalis*) in the Bahia Grande".2021 Annual Meeting of the Texas Chapter of the American Fisheries Society (TCAFS), Texas Chapter of the American Fisheries Society, Online. (February 4, 2021)
- Richard J. Kline and Drew Davis."Taxonomic Status and Occurrence of the Rio Grande Siren".Wildlife Diversity Webinar Series, Texas Parks and Wildlife Department, Cyberspace (Online). (August 19, 2020)
- Zarina Sheikh and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Effectiveness of Wildlife Exits in Reducing Road Mortalities Along a South Texas Highway".56th Annual Meeting of the Texas Chapter of the Wildlife Society, Corpus Christi, Texas. (February 13, 2020)
- Richard J. Kline and Gary Glick."Rio Grande Valley Reef Restoration".Conservation Wrangler Summit, Texan by Nature, Dallas, Texas. (November2019)
- Thomas J. Yamashita and Trinity Livingston and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Relationship between Fence Gaps and Wildlife Road Mortalities on a South Texas Highway".UTRGV GIS Day, University of Texas Rio Grande Valley, Edinburg, Texas. (November2019)
- T. Miles Hopkins and Thomas J. Yamashita and Anna D. Rivera Roy and John Young, Jr. and Richard J. Kline."Estimating the Expected Crossing Frequency of Road Mitigation Structures in South Texas Based on Proximity and Vegetation".AFS & TWS 2019 Joint Annual Conference, American Fisheries Society & The Wildlife Society, Reno, Nevada. (September 30, 2019)
- Thomas J. Yamashita and Trinity Livingston and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Influence of Fences and Fence Gaps on the Distribution of Wildlife Road Mortalities on a South Texas Highway".AFS & TWS 2019 Joint Annual Conference, American Fisheries Society & The Wildlife Society, Reno, Nevada. (September 30, 2019)
- Anna D. Rivera Roy and T. Miles Hopkins and Thomas J. Yamashita and Tiffany Cogan and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Wildlife Use of Road Mitigation Structures during and Post-Construction Along a South Texas Highway".AFS & TWS 2019 Joint Annual Conference, American Fisheries Society & The Wildlife Society, Reno, Nevada. (September 30, 2019)
- T. Miles Hopkins and Thomas J. Yamashita and Anna D. Rivera Roy and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Determining the Permeability of a South Texas Highway for Wildlife Using Expected Crossing Frequencies".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 24, 2019)
- T. Miles Hopkins and Thomas J. Yamashita and Anna D. Rivera Roy and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Estimating the Expected Crossing Frequency of Road Mitigation Structures in South Texas Based on Proximity and Vegetation".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 24, 2019)
- Anna D. Rivera Roy and T. Miles Hopkins and Thomas J. Yamashita and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Influence of Structural Characteristics and Environmental Factors on the Use of Wildlife Crossing Structures".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 24, 2019)
- Thomas J. Yamashita and T. Miles Hopkins and Anna D. Rivera Roy and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Relationship between Human and Animal Activity at Camera Trap Sites near a South Texas Highway".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 24, 2019)
- Anna D. Rivera Roy and T. Miles Hopkins and Thomas J. Yamashita and Tiffany Cogan and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Wildlife Use of Road Mitigation Structures During and Post-Construction along a South Texas Highway".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 24, 2019)
- T. Miles Hopkins and Thomas J. Yamashita and Anna D. Rivera Roy and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Estimating the Expected Crossing Frequency of Road Mitigation Structures in South Texas Based on Proximity and Vegetation".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 23, 2019)
- Thomas J. Yamashita and Trinity Livingston and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Influence of Fences and Fence Gaps on the Distribution of Wildlife Road Mortalities on a South Texas Highway".International Conference on Ecology and Transportation, California Department of Transportation, Sacramento, California. (September 23, 2019)
- Rory Eggelston and Karl Berg and Richard J. Kline and Astolfo Mata--Betancourt."Effects of Corticosteroids on Vocal Babbling in an Extremely Altricial Bird".Behaviour 2019, Animal Behavior Society & International Council of Ethologists, Chicago, Illinois. (July 25,

2019)

Krista M. Ruppert and Drew R. Davis and Richard J. Kline and MD Saydur Rahman."Development, Application, and Assessment of an Environmental DNA Assay for Detection of the Rio Grande Siren".Joint Meeting of Ichthyologists and Herpetologists, American Society of Ichthyologists and Herpetologists, Snowbird, Utah. (July 25, 2019)

Amy P. Bogolin and Abdullah Faizur Rahman and Richard J. Kline and MD Saydur Rahman and Drew R. Davis."Comparing Novel and Traditional Sampling Methodologies to Assess the Population Status of the Rio Grande Cooter, *Pseudemys gorzugi*".Joint Meeting of Ichthyologists and Herpetologists, American Society of Ichthyologists and Herpetologists, Snowbird, Utah. (July 24, 2019)

Krista M. Ruppert and Drew R. Davis and Richard J. Kline and MD Saydur Rahman."Development and Application of an Environmental DNA Assay for Detection of the Rio Grande Siren".55th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Montgomery, Texas. (February 22, 2019)

Anna D. Rivera Roy and T. Miles Hopkins and Thomas J. Yamashita and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Influence of Characteristics and Environmental Factors on the Use of Wildlife Crossing Structures".55th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Montgomery, Texas. (February 22, 2019)

Thomas J. Yamashita and Trinity D. Livingston and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Assessing Changes in Wildlife Road Mortality Hot Spots After the Construction of Wildlife Mitigation Structures on a South Texas Highway".55th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Montgomery, Texas. (February 21, 2019)

T. Miles Hopkins and Thomas J. Yamashita and Anna D. Rivera Roy and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Estimating the Expected Rate of Use of Road Mitigation Structures in South Texas: A Preliminary Analysis".55th Annual Meeting of the Texas Chapter of the Wildlife Society , Texas Chapter of the Wildlife Society, Montgomery, Texas. (February 21, 2019)

Cameron Moody and Richard J Kline and Dale Shively."Evaluation Of Nearshore Reef Site Materials In The Gulf Of Mexico Off Texas Using Swath Bathymetry And Side Scan Sonar".2019 Southern Division – American Fisheries Society, American Fisheries Society, Galveston Island, TX. (January 25, 2019)

Kirsten Lara and Richard J Kline."Monitoring Of Low-Profile Artificial Patch Reefs Using Time-Lapse Videography".2019 Southern Division – American Fisheries Society, American Fisheries Society, Galveston Island, TX. (January 25, 2019)

Michelle Sluis and Jay Rooker and Michael Dance and David Wells and Richard J Kline and Greg Stuntz."Movement Of Tarpon Along The Texas Coast".2019 Southern Division – American Fisheries Society, American Fisheries Society, Galveston Island, TX. (January 25, 2019)

Krista M. Ruppert and Evan A. Bare and Richard J. Kline and MD Saydur Rahman."Development of a New Environmental DNA Assay for Detection of the Rio Grande Siren".Society for Integrative and Comparative Biology, Society for Integrative and Comparative Biology, Tampa, Florida. (January 3, 2019)

Tiffany Cogan and T. Miles Hopkins and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Active Infrared vs. Passive Infrared Camera Trap Detectability".TxDOT Environmental Conference, Texas Department of Transportation, Dallas, Texas. (September 11, 2018)

Trinity Livingston and Thomas J. Yamashita and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."The Impacts of Wildlife Mitigation Structure Construction on Mammalian Road Mortalities".TxDOT Environmental Conference, Texas Department of Transportation, Dallas, Texas. (September 10, 2018)

Anna D. Rivera Roy and Tiffany Cogan and Kevin W. Ryer and John Young, Jr. and Richard J. Kline."Wildlife Use of Road Mitigation Structures Pre- and Post Construction along SH 100".TxDOT Environmental Conference, Texas Department of Transportation, Dallas, Texas. (September 10, 2018)

Sean Graham and Richard J Kline and David Steen and Crystal Kelehear."Description of an extant Salamander from the Gulf Coastal Plain of North America: the Reticulated Siren, *Siren reticulata*".Joint Meeting of Ichthyologists and Herpetologists , American Society of Ichthyologists and Herpetologists; Herpetologists' League; Society for the Study of Amphibians and Reptiles , Rochester, NY. (July 14, 2018)

Trinity Livingston and Kevin Ryer and Richard J Kline and John Young."An Analysis of Factors Associated with Wildlife Road Mortalities in South Texas".54th Annual Meeting of the Texas Chapter of the Wildlife Society, Texas Chapter of the Wildlife Society, Dallas, TX. (February 10, 2018)

Evan Bare and Richard J Kline."Peeping Herpetology: How to Spy on Black- spotted Newts and Other Herpetofauna".54th Annual Meeting of the Texas Chapter of the Wildlife Society, Texas Chapter of the Wildlife Society, Dallas, TX. (February 10, 2018)

Evan Bare and Richard J Kline and Andrew Gluesenkamp and Luis J. Peña."Range Distribution Modeling for the Black -Spotted Newt".54th Annual Meeting of the Texas Chapter of the Wildlife Society, Texas Chapter of the Wildlife Society, Dallas, TX. (February 10, 2018)

Krista Ruppert and Evan Bare and Richard J Kline and MD SAYDUR Rahman."Sifting Through the Soup: Developing an Environmental DNA Assay for Threatened Amphibians".54th Annual Meeting of the Texas Chapter of the Wildlife Society, Texas Chapter of the Wildlife Society, Dallas, TX. (February 10, 2018)

Anna Rivera and Tiffany Cogan and Kevin Ryer and John Young and Richard J Kline."Wildlife Use of Road Mitigation Structures Pre - and Post -construction Along a South Texas Highway".54th Annual Meeting of the Texas Chapter of the Wildlife Society, Texas Chapter of the Wildlife Society, Dallas, TX. (February 10, 2018)

Kirsten F. Lara and Richard J Kline."Artificial reef monitoring: using time - lapse videography for long - term field observations of low - profile artificial patch reefs".2018 Annual Meeting of the Texas Chapter of the American Fisheries Society, Texas Chapter of the American Fisheries Society, College Station, TX. (January 27, 2018)

Richard J Kline and Catheline Froehlich and Andres Garcia."Home range of Red Snapper *Lutjanus campechanus* over a large artificial reef".2018 Annual Meeting of the Texas Chapter of the American Fisheries Society, Texas Chapter of the American Fisheries Society, College Station, TX. (January 27, 2018)

Daniel Alder and Richard J Kline."Size matters: investigating the ecology of low - profile artificial patch reef systems".2018 Annual Meeting of the Texas Chapter of the American Fisheries Society, Texas Chapter of the American Fisheries Society, College Station, TX.

(January 27, 2018)

Richard J Kline and Daniel A. Alder and David W Hicks and Gary Glick and Dale Shively and J. B. Shipley."The Rio Grande Valley Reef: Incorporating Low-Profile Nursery Areas into Artificial Reef Design".147th Annual Meeting of the American Fisheries Society: Marine Artificial Reef Research and Development: Integrating Fisheries Management Objectives I, American Fisheries Society, Tampa, Florida. (August 22, 2017)

David W Hicks and Carlos E Cintra and Richard J Kline and Dale Shively and Brooke Shipley."A decade of monitoring fish populations at the Texas Clipper Artificial Reef: how long is enough? ".147th Annual Meeting of the American Fisheries Society (AFS), AFS, Tampa, FL. (August 18, 2017)

Evan A. Bare and Richard J. Kline."A Novel Technique for Surveying Subterranean Newts".2017 International Herpetological Symposium, Rodeo, NM. (July2017)

Evan A. Bare and Andy Gluesenkamp and Jaime Peña and Jen Stabile and Richard J. Kline."Habitat Requirements and Genetic Comparison of the Black-Spotted New in Texas and Mexico".Joint Meeting of Ichthyologists and Herpetologists, Austin, TX. (July2017)

Ethan T. Getz and Marlin J. Gregor and Dale J. Shively and Richard J Kline."Utilizing Accelerometers to Decipher Red Snapper Behaviors on Natural and Artificial Reefs".4th International Conference on Fish Telemetry, Cairns, Australia. (June 22, 2017)

Evan A. Bare and Richard J. Kline."Subterranean Microhabitat Use in Threatened Black-Spotted Nets (*Notophthalmus meridionalis*)".2017 UTRGV College of Sciences Annual Conference, Edinburg, TX. (March 31, 2017)

David W Hicks and Carlos E Cintra and Richard J Kline and Dale Shively and Brooke Shipley."Five years colonization dynamics of fish populations at the Texas Clipper Artificial Reef, northwestern Gulf of Mexico".69th Gulf and Caribbean Fisheries Institute, Grand Cayman, Cayman Islands. (November 7, 2016)

Richard J Kline and Jonathan R. Rodriquez and Benjamin Walther."Movements and Freshwater Use of Common Snook in South Texas".12th International Congress on the Biology of Fish, American Fisheries Society Physiology Section, San Marcos, Texas. (June 16, 2016)

Austin Greene and Abdullah Faizur Rahman and Richard J Kline."Combined sidescan and parametric sonar mapping of seagrass habitat and associate sediments".Texas Bays and Estuaries Meeting, National Estuarine Research Reserve, Port Aransas, Texas. (April 14, 2016)

Alex Alder and Richard J Kline."Is Low-Profile Worthwhile? Investigating the effect of low-profile artificial reef patch size on juvenile Red Snapper recruitment".Texas Bays and Estuaries Meeting, National Estuarine Research Reserve, Port Aransas, Texas. (April 14, 2016)

Richard J Kline and Ethan Getz."Utilizing accelerometer telemetry tags to compare red snapper activity budgets over natural and artificial reefs".Texas Bays and Estuaries Meeting, National Estuarine Research Reserve, Port Aransas, Texas. (April 14, 2016)

David W Hicks and Carlos E Cintra and Richard J Kline and Dale Shively and Brooke Shipley-Lozano."Artificial reef fish survey methods: counts vs. log-categories yield different diversity estimates".68th Gulf and Caribbean Fisheries Institute, Gulf and Caribbean Fisheries Institute, Panama City, Panama. (November 9, 2015)

Richard J Kline and Taylor C. LaFortune."Mitochondrial Genomics of the South Texas Siren".International Herpetological Symposium, San Antonio Zoo, San Antonio, TX. (May 29, 2015)

Michael A. Bollinger and Richard J Kline."Validating side scan sonar as a fish survey tool over artificial reefs".2nd Annual Science and Research Consortium, Texas Parks and Wildlife Artificial Reef Program, Harte Research Institute, Corpus Christi, TX. (February 5, 2015)

Richard J Kline and Taylor LaFortune."Species Identification, Seasonal Activity, and Habitat Preference of the South Texas Siren".Texas Herpetological Society Fall Symposium, Texas Herpetological Society, Texas State University, San Marcos, TX. (November 8, 2014)

Jonathan R. Rodriquez and Richard J Kline."Acoustic telemetry of common snook (*Centropomus undecimalis*) in South Texas".Gulf Estuarine Research Society Meeting, Gulf Estuarine Research Society, UT Marine Science Institute, Port Aransas, TX. (October 30, 2014)

Richard J Kline and Michael A. Bollinger."Validating side scan sonar as a fish survey tool".Gulf Estuarine Research Society Meeting, Gulf Estuarine Research Society, UT Marine Science Institute, Port Aransas, TX. (October 30, 2014)

Richard J. Kline and Catheline M. Froehlich."Current composition of sportfish populations at an artificial reef off the coast of Texas".Texas Bays and Estuaries Meeting , National Estuarine Research Reserve, Port Aransas, TX. (April 24, 2014)

Rachel N. Arney and Richard J Kline."Recruitment of juvenile fish at an artificial reef in the Gulf of Mexico".Texas Bays and Estuaries Meeting , National Estuarine Research Reserve, Port Aransas, TX. (April 24, 2014)

Richard J Kline and Sarah E. Nordlof."Wildlife Species Association at Future Wildlife Crossing Locations in South Texas".117th Annual Meeting of the Texas Academy of Science, Texas Academy of Science, Galveston, TX. (March 8, 2014)

Richard J Kline and Catheline M Froehlich."Culvert Reef Structure Densities May Affect Fish Community Diversity in Western Gulf of Mexico".117th Annual Meeting of the Texas Academy of Science, Texas Academy of Science, Galveston, TX. (March 7, 2014)

Richard J Kline and Rachel Arney."Quantifying Recruitment of Juvenile Fish at an Artificial Reef in the Gulf of Mexico".117th Annual Meeting of the Texas Academy of Science, Texas Academy of Science, Galveston, TX. (March 7, 2014)

Richard J Kline and Rachel N. Arney and Catheline M. Froehlich and Michael A. Bollinger."Monitoring fish populations on a shallow, turbid reef".1st Annual Science and Research Consortium, TPWD Artificial Reef Program, Corpus Christi, TX. (January 16, 2014)

Andres Garcia and Richard J. Kline and David Hicks and Carlos Cintra-Buenrostro."A comparison of site fidelity and habitat use of red snapper to evaluate performance of two artificial reefs in south Texas".1st Annual Science and Research Consortium, TPWD Artificial Reef Program, Texas Parks and Wildlife Department, Harte Research Institute, Corpus Christi, TX. (January 16, 2014)

David W. Hicks and Carlos E. Cintra-Buenrostro and Richard J. Kline."Spatial and temporal dynamics of south Texas artificial reef fish communities: a review of results and survey methods".1st Annual Science and Research Consortium, TPWD Artificial Reef Program, Texas Parks and Wildlife Department, Harte Research Institute, Corpus Christi, TX. (January 16, 2014)

Taylor LaFortune and Richard J. Kline and Lucia Beatriz Carreon-Martinez."Habitat suitability, distribution, and population genetics of the south Texas siren".UTB-USFWS: Integrating Research with Land Management at Laguna Atascosa National Wildlife Refuge, University of Texas at Brownsville, Brownsville, TX. (November 15, 2013)

- Sarah Nordlof and Richard J. Kline."Selection and use of travel corridors by ocelots (*Leopardus pardalis*) and bobcats (*Lynx rufus*).UTB-USFWS: Integrating Research with Land Management at Laguna Atascosa National Wildlife Refuge, University of Texas at Brownsville, Brownsville, TX. (November 15, 2013)
- Andres Garcia and Richard J. Kline and David Hicks and Carlos Cintra-Buenrostro and Dale Shively."A comparison of site fidelity and habitat use of red snapper on two south Texas artificial reefs utilizing acoustic telemetry".66th Annual Conference Gulf and Caribbean Fisheries Institute, Gulf and Caribbean Fisheries Institute, Corpus Christi, TX. (November 4, 2013)
- Rachel Arney and Richard J. Kline."Assessing the recruitment of juvenile fish through the use of standard monitoring units (SMURFs) at the South Padre Island culvert reef".66th Annual Conference of the Gulf and Caribbean Fisheries Institute, Gulf and Caribbean Fisheries Institute, Corpus Christi, TX. (November 4, 2013)
- Catheline Froehlich and Richard J. Kline."Fish diversity differs among varying patchiness of culvert reefs in the South Padre Island Reef, Texas".66th Annual Conference of the Gulf and Caribbean Fisheries Institute, Gulf and Caribbean Fisheries Institute, Corpus Christi, TX. (November 4, 2013)
- Andres Garcia and Richard J. Kline and David W. Hicks and Carlos E. Cintra-Buenrostro and Dale Shively."The use of underwater surgical techniques to reduce mortality in fish studies utilizing acoustic tagging". 116th Annual Meeting of the Texas Academy of Science, TX Academy of Science/Schreiner University in Kerrville, Schreiner University in Kerrville, Kerrville, TX. (February 28, 2013)
- Andres Garcia and Richard J. Kline and David Hicks and Carlos Cintra-Buenrostro and Dale Shively."A comparison of site fidelity and habitat use of red snapper on two artificial reef types utilizing acoustic telemetry in South Texas".38th Annual Meeting of the Texas Chapter: American Fisheries Society, American Fisheries Society, Conroe, TX. (January 17, 2013)
- Richard J. Kline and Allyse M. Ferrara and G. Joan Holt and Genaro Lopez."In search of the uncommon, spawning, Common Snook in South Texas".1st Conference in Sub-Tropical Biology, University of Texas Pan American, Edinburg, TX. (January 13, 2012)
- David W. Hicks and Carlos E. Cintra-Buenrostro and Richard J. Kline and Dale Shively."Moving towards the standardization of artificial reef monitoring efforts".1st Conference in Subtropical Biology, University of Texas Pan American, Edinburg, TX. (January 13, 2012)
- Richard J. Kline and Alyse M. Ferrara and G. Joan Holt and Izhar A. Khan and Genaro Lopez."Age, Size at Sex and Evidence for Sex Reversal in Common Snook (*Centropomus undecimalis*) in South Texas".Texas Bays and Estuaries Meeting , National Estuarine Research Reserve, Port Aransas, TX. (April 27, 2011)
- Molly Cummings and T. Maginnis and A. Gilerson and A. Tonizzo and S. Ahmed and G. Joan Holt and Richard J. Kline and P. Brady."Polarized camouflage in marine fish-Who does it?".Ocean Optics XX, The Oceanography Society, Anchorage, Alaska. (September 25, 2010)
- Richard J. Kline and G. Joan Holt and Izhar A. Khan."Is GnRH function mediated through an AVT receptor in a sex changing fish?".9th International Congress of Neuroethology, International Society for Neuroethology, Salamanca, Spain. (August 2, 2010)
- Izhar A. Khan and Richard J. Kline and G. Joan Holt and R. R. Vega."Development of a non-invasive gender identification protocol for the spotted seatrout, *Cynoscion nebulosus*".2010 Annual Meeting of the Texas Chapter: American Fisheries Society, American Fisheries Society, Athens, TX. (January 23, 2010)
- Richard J. Kline and G. Joan Holt."The difficulties with defining the spawning season for snook in Texas".Segundo Simposio Internacional Sobre Biología y Cultivo de Robalos, Universidad Juárez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico. (July 14, 2009)
- Richard J. Kline and G. Joan Holt and Izhar A. Khan."Neuroendocrine control of sex change in the rock hind, *Epinephelus adscensionis*".2009 Annual Society of Integrative and Comparative Biology Meeting, Society of Integrative and Comparative Biology, Boston, MA. (January 3, 2009)
- Izhar A. Khan and Richard J. Kline and Maelanie M. Galima and J. S. Mohamed."Kisspeptin stimulates GnRH synthesis and release in Atlantic croaker".2008 Annual Society of Integrative and Comparative Biology Meeting, Society of Integrative and Comparative Biology, San Antonio, TX. (January 4, 2008)
- Izhar A. Khan and Junaith Mohamed and Maelanie M. Galima and Richard J. Kline."Neuroendocrine regulation of multiple gonadotropin-releasing hormones in a fish model: Kisspeptin-GPR54 pathway".40th Annual Meeting of the Society for the Study of Reproduction, Society for the Study of Reproduction, San Antonio, TX. (July 27, 2007)
- Izhar A. Khan and J. S. Mohamed and A. Banerjee and Maelanie M. Galima and Richard J. Kline."Localization of GPR54 expression on GnRH neuronal elements and their regulation by gonadal steroids in Atlantic croaker".8th International Symposium on Reproductive Physiology of Fish, Société Française d'Ichtyologie, Saint-Malo, France. (June 3, 2007)
- Richard J. Kline and K. Soyano and M. Tokushim and Izhar A. Khan."Effect of FSH and androgens on the sexual inversion of sevenband grouper, *Epinephelus septemfasciatus*".The International Triennial Meeting of World Aquaculture Society, National Shell Fisheries Association and Fish Culture Section of the American Fisheries Society, American Fisheries Society, San Antonio, TX. (February 27, 2007)
- Richard J. Kline and D. M. Parkyn and D. J. Murie."Metabolic rate in relation to swimming speed, body size and temperature in the gag grouper (*Mycteroperca microlepis*)".6th International Congress on the Biology of Fish, Physiology Section of the American Fisheries Society, Manaus, Brazil. (August 24, 2004)

Teaching

Teaching Experience

- BIOL 1106, Biology for Sci Majors I Lab, 32 Course(s)
- BIOL 1106, Biology for Science Majors Laboratory I, 8 Course(s)
- BIOL 1106, General Biology Laboratory I, 16 Course(s)
- BIOL 1107, Biology for Sci Majors II Lab, 17 Course(s)
- BIOL 1107, Biology for Science Majors II Lab, 11 Course(s)
- BIOL 1108, Biology Non-Sci Major Lab I, 1 Course(s)

BIOL 1108, Biology Non-Sci Majors Lab I, 7 Course(s)
BIOL 1108, Biology Non-Science Majors Lab I, 6 Course(s)
BIOL 1109, Biology Non-Science Majors Lab II, 1 Course(s)
BIOL 1306, Biology for Science Majors I, 8 Course(s)
BIOL 1306, General Biology I, 5 Course(s)
BIOL 3112, Cell and Molecular Biology Laboratory, 3 Course(s)
BIOL 4104, Ichthyology Laboratory, 2 Course(s)
BIOL 4132, Animal Behavior Laboratory, 1 Course(s)
BIOL 4199, Independent Research, 1 Course(s)
BIOL 4199, Research Problems in Biology, 2 Course(s)
BIOL 4304, Ichthyology, 2 Course(s)
BIOL 4331, Biological Lab Instruction, 2 Course(s)
BIOL 4331, Biological Laboratory Instruction, 2 Course(s)
BIOL 4332, Animal Behavior, 1 Course(s)
BIOL 4390, Biology Internship, 2 Course(s)
BIOL 4399, Independent Research, 2 Course(s)
BIOL 4399, Research Problems in Biology, 6 Course(s)
BIOL 4404, Ichthyology, 7 Course(s)
BIOL 4404, Ichthyology Lab, 1 Course(s)
BIOL 5136, Current Issues in Biology, 1 Course(s)
BIOL 5170, Topic: Supervised Teaching, 2 Course(s)
BIOL 5170, Topics in Biology, 3 Course(s)
BIOL 5370, Topic in Biology - Grad Intern, 1 Course(s)
BIOL 5370, Topics in Biology, 4 Course(s)
BIOL 5404, Advanced Ichthyology, 6 Course(s)
BIOL 5432, Animal Behavior, 2 Course(s)
BIOL 6101, Scientific Thinking, 3 Course(s)
BIOL 6102, Graduate Seminar II, 5 Course(s)
BIOL 6185, Graduate Research, 11 Course(s)
BIOL 6285, Graduate Research, 10 Course(s)
BIOL 6365, Biol Research Problems, 1 Course(s)
BIOL 6365, Graduate Biological Research Problems, 2 Course(s)
BIOL 6385, Graduate Research, 11 Course(s)
BIOL 6390, Biology Internship, 11 Course(s)
BIOL 6485, Graduate Research, 2 Course(s)
BIOL 6585, Graduate Research, 2 Course(s)
BIOL 6685, Graduate Research, 5 Course(s)
BIOL 7100, Thesis Proposal, 6 Course(s)
BIOL 7150, Thesis Extension, 2 Course(s)
BIOL 7300, Thesis, 5 Course(s)
BIOL 7300, Thesis I, 9 Course(s)
BIOL 7301, Thesis, 6 Course(s)
BIOL 7301, Thesis II, 12 Course(s)
BMED 3223, Independent Research III, 1 Course(s)
EEMS 6100, Systems Science and Appl, 1 Course(s)
EEMS 6185, Graduate Research, 6 Course(s)
EEMS 6199, Systems Science Issues, 1 Course(s)
EEMS 6285, Graduate Research, 8 Course(s)
EEMS 6385, Graduate Research, 11 Course(s)
EEMS 6390, Graduate Internship, 4 Course(s)
EEMS 6485, Graduate Research, 1 Course(s)
EEMS 6585, Graduate Research, 4 Course(s)
EEMS 6685, Graduate Research, 5 Course(s)

EEMS 7100, Continuing Thesis, 12 Course(s)

EEMS 7300, Thesis I, 13 Course(s)

EEMS 7301, Thesis II, 13 Course(s)

ENVR 4303, Envr Sci Res Proj, 1 Course(s)

GRAD 6000, Directed Research, 2 Course(s)

MARS 4390, Marine Biology Internship, 1 Course(s)

UNIV 6100, Comp Exam Ext, 4 Course(s)

UNIV 6200, Comp Exam Ext, 1 Course(s)

Non-Credit Instruction

- Other, Rio Grande Valley Chapter Texas Master Naturalist Program, 35. (May 12, 2015)
- Other, Rio Grande Valley Chapter Texas Master Naturalist Program, 30. (February 28, 2015)
- Guest Lecture, Rio Grande Valley Chapter Texas Master Naturalist Program, 40. (March 19, 2014)
- Guest Lecture, Rio Grande Valley Chapter Texas Master Naturalist Program, 35. (January 16, 2013)

Directed Student Learning

Master's Thesis Committee Chair, Allison White. Measurements of Fish Biomass in the RGV Reef, School of Earth, Environmental, and Marine Sciences. (January 1, 2023)

Master's Thesis Committee Chair, Annie Zeiler. Side-scan Sonar Mapping of the RGV Reef, School of Earth, Environmental, and Marine Sciences. (January 1, 2023)

Master's Thesis Committee Chair, Rupesh Maharjan. Ocelot Use of Road Mitigation Structures on South Texas Roadways, School of Earth, Environmental, and Marine Sciences. (January 1, 2023)

Master's Thesis Committee Chair, Michelle King. Carbon Sequestration in the Rio Grande Valley Reef, School of Earth, Environmental, and Marine Sciences. (September 1, 2022)

Master's Thesis Committee Chair, Jamie Langbein. Monitoring the Effectiveness of Mitigation Structures and Bobcat Use Along a South Texas Highway, Department of Biology. (September 1, 2021)

Master's Thesis Committee Chair, Madison Nadler. Structure Modifications and Alternative Monitoring Design of Wildlife Road Mitigation Structures, Department of Biology. (September 1, 2021)

Master's Thesis Committee Chair, Marissa Lamb. Mapping and Characterization of East Bank Ridge, Gulf of Mexico, to Determine Current State, Fish Communities, and Possible Sources of Degradation, School of Earth, Environmental, and Marine Sciences. (September 1, 2021)

Master's Thesis Committee Chair, Anna Mehner. Understanding the Influence of Traffic and Noise on the Wildlife Community surrounding FM 106 and SH 100 in South Texas, School of Earth, Environmental, and Marine Sciences. (January 2021)

Master's Thesis Committee Member, Sandra Leal. Population structure of Red Drum (*Sciaenops ocellatus*) in two systems in the northwestern Gulf of Mexico, School of Earth, Environmental, and Marine Sciences. (September 2019)

Master's Thesis Committee Member, Nathaniel Garza. Habitat Preference of Pinfish (*Lagodon rhomboides*) amongst the seagrass species: *Thalassia testudinum*, *Halodule wrightii*, and *Syringodium filiforme*, Department of Biology. (May 2019)

Master's Thesis Committee Chair, Marybeth Weihbrecht. Red Snapper Abundance, Growth, and Movement at Different Structural Configurations in the Rio Grande Valley Artificial Reef, School of Earth, Environmental, and Marine Sciences. (January 2021 - May 2023)

Master's Thesis Committee Chair, Adam Sanjar. Road Mitigation Structure and Road Effect Zone Impacts on Rodent Community Composition, Activity, and Predator-Prey Dynamics in South Texas, Department of Biology. (January 2020 - May 2023)

Master's Thesis Committee Chair, Caitlin Brett. South Texas Wildlife Activity Across a Fragmented Landscape and Road Mitigation Corridor, School of Earth, Environmental, and Marine Sciences. (September 2020 - December 2022)

Master's Thesis Committee Chair, Victoria Hanley. Bobcat Identification, Abundance, and Behavior at Road Mitigation Structures in south Texas, Department of Biology. (September 2020 - December 2022)

Master's Thesis Committee Chair, Bradley Beer. Wildlife Road Mortality Patterns in South Texas and Survey Methodology Improvement, Department of Biology. (January 2020 - December 2022)

Master's Thesis Committee Chair, Keegan Angerer. Analysing Fish Community Assemblages on Differing Arrays on High and Low Profile Artificial Reef Modules Using a Remotely Operated Vehicle, School of Earth, Environmental, and Marine Sciences. (January 2021 - August 2022)

Master's Thesis Committee Chair, Sean Collins. Application of Environmental DNA (eDNA) Metabarcoding in South Texas, School of Earth, Environmental, and Marine Sciences. (September 2020 - August 2022)

Master's Thesis Committee Member, Elizabeth Mogus Garcia. Red drum (*Sciaenops ocellatus*) trophic web reconstruction using stable isotopes in two systems in the northwestern Gulf of Mexico, School of Earth, Environmental, and Marine Sciences. (September 2019 - August 2022)

Master's Thesis Committee Chair, Kathrene Lo. The Lifespan of Artificial Structure Heights and Presence in the Rio Grande Valley Reef, School of Earth, Environmental, and Marine Sciences. (September 2020 - June 2022)

Master's Thesis Committee Chair, Connor Gallagher. Behavioral telemetry of the Common Snook in the Bahia Grande, School of Earth, Environmental, and Marine Sciences. (September 2018 - June 2022)

Master's Thesis Committee Chair, Kirsten Lara. Characterizing low profile reef as snapper (*Lutjanus campechanus*) habitat, School of Earth, Environmental, and Marine Sciences. (September 1, 2016 - June 2022)

Master's Thesis Committee Chair,Greta Hayden-Pless. eDNA surveys of Shark Species in the Lower Laguna Madre, School of Earth, Environmental, and Marine Sciences. (September 1, 2021 - May 2022)

Undergraduate Directed Individual/Independent Study,Alexa Campos. Comparison of Night and Day Road Mortality Detections in South Texas, Department of Biology. (August 2021 - December 2021)

Master's Thesis Committee Chair,Jonathan Cawfield. Niche Overlap Between Two Species of Snook in the Lower Laguna Madre, School of Earth, Environmental, and Marine Sciences. (September 2018 - December 2021)

Master's Thesis Committee Chair,Padraic Robinson. Status, Distribution, and Conservation of the Black-spotted Newt (*Notophthalmus meridionalis*) in South Texas, School of Earth, Environmental, and Marine Sciences. (September 2019 - May 2021)

Master's Thesis Committee Chair,Zarina Sheikh. Effectiveness of Wildlife Exits in Reducing Road Mortalities along a South Texas Highway, Department of Biology. (September 2019 - May 2021)

Master's Thesis Committee Member,Omar Vasquez Perez. Effects of Heat Stress on Transcription Factors, Oxidative Stress and Cellular Apoptosis in the Common Goldfish, *Carassius auratus*, School of Earth, Environmental, and Marine Sciences. (September 2019 - September 2020)

Master's Thesis Committee Chair,Taylor Hopkins. Measuring the Road Effect Zone and Its Influence on Wildlife Mortalities, Department of Biology. (January 2018 - August 2020)

Master's Thesis Committee Chair,Krista Ruppert. Use of eDNA to characterize Texas siren distribution, School of Earth, Environmental, and Marine Sciences. (September 1, 2017 - August 2020)

Master's Thesis Committee Member,Amy Bogolin. Comparing novel and traditional sampling methodologies to analyze the population status of the Rio Grande Cooter (*Pseudemys gorzugi*), School of Earth, Environmental, and Marine Sciences. (September 2018 - May 2020)

Master's Thesis Committee Chair,Thomas Yamashita. Environmental factors of wildlife road mortalities along SH-100, School of Earth, Environmental, and Marine Sciences. (January 2018 - May 2020)

Master's Thesis Committee Chair,Ana Rivera Roy. Comparison of Cattle Guard Design to mitigate Ocelelot Road Mortalities, School of Earth, Environmental, and Marine Sciences. (September 1, 2017 - May 2020)

Master's Thesis Committee Member,Stefany Salinas. Effects of Artificial Substrates on the Recruitment of Juvenile Fishes in the Western Gulf of Mexico, School of Earth, Environmental, and Marine Sciences. (September 2017 - May 2020)

Master's Thesis Committee Member,Rory Eggleston. Effects of corticosteroids on vocal babbling in an extremely altricial bird, Department of Biology. (January 2018 - December 2019)

Master's Thesis Committee Chair,Cameron Moody. Use of Bathyswath sonar for characterization of juvenile red snapper habitat, School of Earth, Environmental, and Marine Sciences. (September 1, 2017 - December 2019)

Master's Thesis Committee Chair,Trinity Livingston. Evaluating the Effectiveness of Wildlife Crossing Structures on Road Wildlife Mortality Patterns, School of Earth, Environmental, and Marine Sciences. (September 1, 2016 - August 2019)

Master's Thesis Committee Member,Jackson Johnstone. Effects of High Temperature on Gonadal Functions and Cellular Apoptosis in Atlantic Sea Urchin, (April 2018 - May 2019)

Master's Thesis Committee Member,Anthony Lima. Measuring Connective Capacity Throughout the Gulf of Mexico Fishery Management Network, School of Earth, Environmental, and Marine Sciences. (May 2018 - December 2018)

Master's Thesis Committee Member,Samantha Sylvestri. A Phylogenetic Analysis of *Leptogorgia virgulata* and *Leptogorgia hebes* in the Northwestern Gulf Of Mexico, Department of Biology. (September 2016 - December 2018)

Undergraduate Supervised Research,Jennifer Baez. Wildlife Vehicle Road Mortality Monitoring, Department of Biology. (November 10, 2017 - November 2018)

Master's Thesis Committee Member,Magali Ayala. *Trichomonas Vaginalis* Cytoadherence is Modulated by Oxidative Stress, Department of Biology. (September 2016 - August 2018)

Undergraduate Supervised Research,Ivonne Cano. Wildlife monitoring on State Highway 100, School of Earth, Environmental, and Marine Sciences. (September 01, 2017 - June 30, 2018)

Master's Thesis Committee Chair,Daniel Alder. Another Brick in the Mud: Investigating the Impact of Small Low-Profile Artificial Patch Reefs on Juvenile Fish Recruitment and Implications for Adaptive Fisheries Management, School of Earth, Environmental, and Marine Sciences. (September 2015 - May 2018)

Master's Thesis Committee Chair,Evan Bare. Population structure of the Black-spotted newt, Department of Biology. (September 1, 2015 - May 15, 2018)

Master's Thesis Committee Chair,Tiffany Cogan. Monitoring Wildlife Crossing Structures and Wildlife Guards During Construction on a Four-lane Divided Highway in South Texas, Biological Sciences (UTB). (July 1, 2015 - May 15, 2018)

Master's Thesis Committee Member,Adam Lee. Age, Growth, and Reproductive Status of the Grey Triggerfish on Three Artificial Reefs, School of Earth, Environmental, and Marine Sciences. (September 01, 2015 - April 14, 2018)

Master's Thesis Committee Member,Hilary Frandsen. Population Genetics of the Kemp's Ridley Sea Turtle, Department of Biology. (September 1, 2015 - December 25, 2017)

Master's Thesis Committee Chair,Ethan Getz. Red snapper telemetry, Biological Sciences (UTB). (January 1, 2015 - December 19, 2017)

Undergraduate Supervised Research,Daniel Cavazos. School of Earth, Environmental, and Marine Sciences. (September 1, 2016 - December 15, 2017)

Master's Thesis Committee Member,Alexandro Trevino. Thermal Consolidation of Dredge Sand for Artificial Reef Formations, Department of Physics and Astronomy. (September 01, 2015 - July 31, 2017)

Master's Thesis Committee Member,Stephanie DuBois. Increasing Marine Debris Awareness through Public Education and Analyzing Fish for Microplastic and Pollutant Contamination, Department of Biology. (September 1, 2015 - July 31, 2017)

Master's Thesis Committee Member,Austin Greene. Applications of Side Scan and Parametric Echosounders for Mapping Shallow Seagrass Habitats and Their Associated Organic Carbon, Department of Biology. (September 1, 2015 - May 15, 2017)

Master's Thesis Committee Member,Robert Figueroa-Downing. Investigating the Application of Multibeam Sonar and Remotely Operated Vehicles in Fish Monitoring on Artificial Reefs, Biological Sciences (UTB). (January 1, 2015 - May 15, 2017)

Master's Thesis Committee Member,Maria Cooksey. Characterizing benthic invertebrate communities at five South Texas Banks, Biological Sciences (UTB). (January 1, 2014 - August 31, 2016)

Undergraduate Supervised Research,Crystal Ramirez. Siren DNA , (January 1, 2016 - August 15, 2016)

Undergraduate Supervised Research,Andy Ly. Black-spotted newt, Biological Sciences (UTB). (September 1, 2015 - May 15, 2016)

Master's Thesis Committee Chair,Parker Watson. Biological Sciences (UTB). (September 1, 2015 - December 31, 2015)

Master's Thesis Committee Chair,Michael Bollinger. Estimation of reef fish biomass using high frequency side-scan sonar, Biological Sciences (UTB). (September 1, 2013 - December 31, 2015)

Master's Thesis Committee Member,Ricky Alexander. Examining Red Snapper Reproduction at Four Artificial Reefs in the Northwestern Gulf of Mexico, Biological Sciences (UTB). (September 1, 2013 - December 15, 2015)

Master's Thesis Committee Chair,Taylor LaFortune. Habitat Characterization and Population Genetics of the South Texas Siren, Biological Sciences (UTB). (September 1, 2013 - July 31, 2015)

Master's Thesis Committee Member,Hector Aguillar. Biological Sciences (UTB). (September 1, 2013 - July 15, 2015)

Master's Thesis Committee Chair,Sarah Nordlof. Camera Monitoring of Ocelot Crossings in Cameron County, TX, Biological Sciences (UTB). (January 1, 2013 - July 1, 2015)

Undergraduate Supervised Research,Shangir Siddique. Molecular techniques with mitochondrial DNA, Biological Sciences (UTB). (May 1, 2015 - June 1, 2015)

Undergraduate Supervised Research,Lourdes Rios. Analyzing wildlife camera trap data and quantified rodent populations, (September 1, 2014 - December 31, 2014)

Graduate Supervised Research,Connie Mata. DNA marker testing, Biological Sciences (UTB). (September 1, 2014 - December 15, 2014)

Undergraduate Supervised Research,Victor Gaytan. Artificial reef monitoring using side scan sonar, Biological Sciences (UTB). (September 1, 2014 - December 15, 2014)

Master's Thesis Committee Member,Leah McIntosh. Resaca Ecosystem Development: Colonization and Succession of the Macroinvertebrate Community, Biological Sciences (UTB). (September 1, 2013 - December 15, 2014)

Master's Thesis Committee Chair,Catheline Froehlich. The Effect of Culvert Reef Patchiness on Fish Communities in the South Padre Island Reef, Off Port Mansfield, Texas, Biological Sciences (UTB). (September 1, 2012 - December 15, 2014)

Master's Thesis Committee Chair,Rachel Arney. The Use of Standard Monitoring Units to Assess Recruitment of Fishes (SMURF) at the South Padre Island Artificial Reef - PS-1047, Biological Sciences (UTB). (September 1, 2012 - December 15, 2014)

Undergraduate Supervised Research,Crystal Lopez. Developing primers to analyze siren genetics, Biological Sciences (UTB). (June 1, 2014 - July 31, 2014)

Internship Advisor,Connie Mata. Biological Sciences (UTB). (June 1, 2014 - July 15, 2014)

Undergraduate Supervised Research,Hilario Obregon. Habitat use and identification of bobcats , Biological Sciences (UTB). (June 1, 2014 - July 1, 2014)

Undergraduate Supervised Research,Aleksander Pineda. DNA extraction and microsatellite markers, Biological Sciences (UTB). (January 1, 2014 - May 15, 2014)

Undergraduate Supervised Research,Pablo Sanchez. Using wildlife camera trap data to quantify rodent populations in the Tamaulipan thornscrub, Biological Sciences (UTB). (January 1, 2014 - May 15, 2014)

Undergraduate Supervised Research,Roman Zapien. Testing of mitochondrial DNA markes, Biological Sciences (UTB). (January 1, 2014 - May 15, 2014)

Undergraduate Supervised Research,Jessica Saenz. Molecular techniques in Marine Science, Biological Sciences (UTB). (September 1, 2012 - December 31, 2013)

Master's Thesis Committee Chair,Andres Garcia. Site Fidelity of Red Snapper on Artificial Reefs in the Gulf of Mexico, Biological Sciences (UTB). (September 2011 - December 2013)

Master's Thesis Committee Chair,Peter Torres. Molecular Techniques in Marine Science, Biological Sciences (UTB). (September 1, 2013 - December 15, 2013)

Master's Thesis Committee Member,Amie Cabo-Clark. Mode of Inheritance and Genetic Variation Evaluated Through Comarative Genomics of Plastome Sequences of an Invasive Hybrid Plant Species and Its Parents, Biological Sciences (UTB). (September 1, 2011 - July 15, 2013)

Undergraduate Supervised Research,Krystal Castrejon. Molecular techniques in Marine and Aquatic Science, Biological Sciences (UTB). (January 1, 2013 - May 15, 2013)

Undergraduate Supervised Research,Jonathan Ross Rodriquez. Habitat use of black drum in the Bahia Grande, a restored bay, using hydro-acoustics and manual tracking techniques, Biological Sciences (UTB). (September 1, 2012 - May 15, 2013)

Master's Thesis Committee Member,Jonathan Lê. The Effect of Disturbance an Artificial Reef Fouling Community, Biological Sciences (UTB). (September 1, 2011 - May 15, 2013)

Undergraduate Supervised Research,Lourdes Troncoso. Fruit fly sectioning for analysis of reproductive state, Biological Sciences (UTB). (June 1, 2012 - July 1, 2012)

Undergraduate Supervised Research,Keirsten Velsaquez. Development molecular markers for species identification of Centropomus fish species, Biological Sciences (UTB). (January 1, 2012 - May 15, 2012)

Supervised Teaching Activity,Wesley Roberts. Molecular techniques in Marine Science, Biological Sciences (UTB). (September 1, 2011 - December 15, 2011)

Service

Department Service

Committee Member, OCES Graduate Program Admissions Committee (January 15, 2017)

Committee Member, PhD Planning Ocean & Coastal Science Committee (September 1, 2016)

Committee Chair, SEEMS Tenure and Promotion Committee (September 1, 2020 - August 31, 2021)

Committee Member, SEEMS Tenure and Promotion Committee (September 2017 - August 2020)

Committee Member, Port Isabel Campus Planning Committee (September 1, 2016 - August 31, 2020)

Committee Chair, Marine Science Faculty Search Committee (January 2020 - July 2020)

Committee Member, Dive Safety Committee (September 1, 2015 - August 31, 2018)

Committee Member, SEEMS Annual Review Committee (September 2017 - May 2018)

Committee Member, AES Graduate Program Admissions Committee (January 2017 - May 2018)

Committee Member, SEEMS Socioecological Faculty Search Committee (October 2017 - March 2018)

College Service

Committee Member, COS Space Committee (November 2018 - August 2019)

University Service

Other, Texas Regional Alliance for Campus Sustainability (February 1, 2016)

Task Force Member, UTRGV HOP Reviewer (September 1, 2014 - May 31, 2015)

Professional Service

Reviewer, Journal Article, Molecular Biology Reports. (March 2020)

Reviewer, Journal Article, Ethology. (November 2019)

Grant Proposal Reviewer, External, New York Sea Grant. (July 10, 2018 - August 20, 2018)

Judge, Texas Wildlife Association. Dallas, TX (February 10, 2018)

Judge, Texas Chapter of the American Fisheries Society. College Station, Texas (January 26, 2018)

Reviewer, Journal Article, Coral Reefs. (May 2017 - June 2017)

Reviewer, Grant Proposal, NOAA-MARFIN. (April 2017 - May 2017)

Judge, Texas Wildlife Association. (November 2016 - November 2016)

Reviewer, Journal Article, Journal of Experimental Biology. (January 2014 - December 2014)

Committee Member, Texas Academy of Sciences Student Awards Committee. (January 2013 - December 2013)

Committee Member, Texas Chapter, American Fisheries Society Student Award Committee. (January 2013 - December 2013)

Reviewer, Journal Article, Journal of the World Aquaculture Society. (January 2012 - December 2012)

Reviewer, Journal Article, Marine Pollution Bulletin. (January 2012 - December 2012)

Public Service

Guest Speaker, World Outdoor Wildlife Expo. South Padre Island, Texas (January 2016)

Board Member, Valley Sportsmen. (February 2015)

Other, Friends of the RGV Reef. Texas (2015)

Guest Speaker, Rio Grande Valley Chapter Texas Master Naturalist. San Benito, TX (October 11, 2011)

Member, Red Tide Rangers, LRGV. South Padre Island, Texas (September 2011)

Guest Speaker, Texas Coastal Naturalists. South Padre Island, Texas (September 2011)

Guest Speaker, Rio Grande Valley Chapter Texas Master Naturalists. San Benito, Texas (March 7, 2018 - March 7, 2018)

Guest Speaker, North Brownsville Rotary Club. Brownsville, TX (January 23, 2016)

Board Member, Texas International Fishing Tournament (TIFT). Port Isabel, Texas (January 2015 - December 2015)

Other, Texas International Fishing Tournament (TIFT). Port Isabel, Texas (September 2011 - August 2015)

Committee Chair, Cameron County Coastal Issues Committee. (January 2012 - December 2014)