

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

- Associate Professor, UTRGV (2017)
- Program Director, OCES, (2016)
- Assistant Professor, UTRGV (2015 - 2017)

Academic - Post-Secondary

- Postdoctoral Fellow, University of Texas Marine Science Institute (January 2011 - August 2011)

Licensures and Certifications

- 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

Conference Proceedings

- M. Rahnemoonfar, M. Yari, Amy Ramirez, and Richard Kline. *The First Automatic Method for Mapping the Pothole in Seagrass*. 2017 IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW). Institute of Electrical and Electronics Engineers. (July (3rd Quarter/Summer) 2017): 267-274.
- David Hicks, Carlos Cintra-Buenrostro, Richard Kline, 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, (2016): 74-79.

Linda Jordan, David Hicks, 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. (2016): 66-73.

Alexandro Trevino, Karen Martirosyan, and Richard Kline. *Thermite Reaction to Produce Artificial Reefs*. APS March Meeting Abstracts. (2016)

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. 137, no. 4 (April (2nd Quarter/Spring) 2015): 2334. scitation.aip.org/content/asa/journal/jasa/browse

Izhar Khan, J. Mohamed, Richard Kline, and Maelanie Galima. *Co-localization of GPR54 with three GnRHs and quantification of GPR54 protein in Atlantic croaker brain*. CYBIUM International Journal of Ichthyology. Saint-Malo, France: Société Française d'Ichtyologie. 32, no. 2-Supplement (2008): 25-27. sfi.mnhn.fr/cybiium/numeros/2008/322%20suppl%20ISRPF/contents322Suppl.html

Journal Articles

Catheline Froehlich, Andres Garcia, and Richard Kline. Daily Movement Patterns of Red Snapper (*Lutjanus campechanus*) on a Large Artificial Reef. *Fisheries Research*. 209, (January (1st Quarter/Winter) 2019): 49-57.

Sean Graham, Richard Kline, David Steen, and Crystal Kelehear. Description of an extant Salamander from the Gulf Coastal Plain of North America: the Reticulated Siren, *Siren reticulata*. no. *PLOS ONE*. 13, no. 12 (December 2018): 16.

Austin Greene, Abdullah Rahman, Richard Kline, and MD Saydur Rahman. Side scan sonar: a cost-efficient alternative method for measuring seagrass cover in shallow environments. *Estuarine, Coastal and Shelf Science*. 207, (July (3rd Quarter/Summer) 2018): 250-258. doi.org/10.1016/j.ecss.2018.04.017

M. Rahneemofar, Abdullah Rahman, Richard Kline, and Austin Greene. Automatic seagrass disturbance pattern identification on Sonar images. *IEEE Journal of Oceanic Engineering*. PP, no. 99 (January (1st Quarter/Winter) 2018): 1-10.

Evan Bare and Richard Kline. *Notophthalmus meridionalis* (Black-spotted Newt) Habitat Use. *Herpetological Review*. 48, no. 4 (December 2017): 827-828.

Michael Bollinger and Richard Kline. Validating Sidescan Sonar as a Fish Survey Tool Over Artificial Reefs. *Journal of Coastal Research*. 33, no. 6 (November 2017): 1397-1407. <http://www.jronline.org/doi/full/10.2112/JCOASTRES-D-16-00174.1>

Rachel Arney, 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*. 9, no. 1 (March 2017): 79-92. <http://www.tandfonline.com/doi/pdf/10.1080/19425120.2016.1265031>

Richard Kline, Holt Joan, and Khan K.. Arginine Vasotocin V1a2 Receptor and GnRH Co-Localize in preoptic neurons of the Sex Changing Grouper, *Epinephelus adscensionis*. R.M. Dores, D.M. Power (Ed.) Amsterdam: *General and Comparative Endocrinology*. 225, (2016): 33-44. www.journals.elsevier.com/general-and-comparative-endocrinology/

Richard Kline, 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*. 3, no. 5 (December 2015): 193-202. www.hrpub.org/download/20151130/AZB1-11404725.pdf

Richard Kline and Catheline Froehlich. Using Fish Population Metrics to Compare the Effects of Artificial Reef Density. Craig A. Layman (Ed.) San Francisco, CA: *PloS one*. 10, no. 9 (September 2015): 16.

Lin Huffman, Lauren O'Connell, Carly Kenkel, Richard Kline, Izhar Khan, and Hans Hofmann. Distribution of nonapeptide systems in the forebrain of an African cichlid fish, *Astatotilapia burtoni*. Amsterdam: *Journal of Chemical Neuroanatomy*. 44, no. 2 (July (3rd Quarter/Summer) 2012): 86–97. linkinghub.elsevier.com/retrieve/pii/S0891061812000312

Richard Kline, Lauren O'Connell, Hans Hofmann, 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*. 42, no. 1 (June 2011): 72–88. <http://linkinghub.elsevier.com/retrieve/pii/S0891061811000603>

Richard Kline, Izhar Khan, and G. Holt. Behavior, Color Change and Time for Sexual Inversion in the Protogynous Grouper (*Epinephelus adscensionis*). Osorio, Daniel (Ed.) *PLoS ONE*. 6, no. 5 (May 2011): e19576. <http://dx.plos.org/10.1371/journal.pone.0019576>

Richard Kline, Izhar Khan, 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*. 70, no. 2 (April (2nd Quarter/Spring) 2008): 266–272. <http://www.tandfonline.com/doi/abs/10.1577/A07-033.1>

Ethan Getz and Richard Kline. Utilizing Accelerometer Telemetry Tags to Compare Red Snapper (*Lutjanus campechanus*) Behavior on Artificial and Natural Reefs. *Journal of Experimental Marine Biology and Ecology*.

Other

Krista Ruppert, 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*. 17, no. e00547 (February 2019): 1-29. <https://doi.org/10.1016/j.gecco.2019.e00547>

Evan Bare and Richard Kline. Wild Thing: Orange Bellies - Shrinking habitat threatens the fierce black-spotted newt. Austin, TX: *Texas Parks and Wildlife*. (August 2016): 1. tpwmagazine.com

Richard Kline. CCA-sponsored Nearshore Reefs: UT-Brownsville researchers report culverts deployed in 2011 now harbor large populations of red snapper. Houston, TX: *CCA Currents Magazine*. (July (3rd Quarter/Summer) 2014): 2-3. www.ccatexas.org/wp-content/uploads/2012/03/CUR-JUNE-JULY-2014-UPDATED.pdf

Richard Kline, Mitch Sternberg, and Sarah Nordlof. Preliminary Assessment of Wildlife Monitoring on the General Brant Roadway Expansion Near Laguna Atascosa Wildlife Refuge, Cameron County, Texas. Austin, TX: *Texas Department of Transportation*. (April (2nd Quarter/Spring) 2014)

Richard Kline and Lucia Carreon-Martinez. Population genetics of the South Texas Siren. Final Report. (December 2013)

T. Pandian and Richard Kline. Tuxedo Pattern figure. Endocrine sex differentiation in fish. Boca Raton: *CRC Press*. (2013)

Under Submission

Journal Articles

Ethan Getz and Richard Kline. Utilizing Accelerometer Telemetry Tags to Compare Red Snapper (*Lutjanus campechanus*) Behavior on Artificial and Natural Reefs. *Journal of Experimental Marine Biology and Ecology*.

AWARDS AND HONORS

Excellence in Teaching, College of Science, Mathematics, and Technology

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

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

Frances Rusteberg Faculty Fellow, University of Texas at Brownsville (February 8, 2012)

PRESENTATIONS

Cameron Moody, Richard 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 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, Jay Rooker, Michael Dance, David Wells, Richard 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)

Sean Graham, Richard Kline, 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, Kevin Ryer, Richard 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 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, Richard Kline, Andrew Gluesenkamp, and Luis 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, Evan Bare, Richard 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, Tiffany Cogan, Kevin Ryer, John Young, and Richard 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 Lara and Richard Kline. "Artificial reef monitoring: using time-lapse videography for long-term field observations of low-profile artificial patch reefs," 2018 Texas Chapter AFS Annual Meeting, Texas Chapter of the American Fisheries Society, College Station, TX. (January 27, 2018)

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

Daniel Alder and Richard Kline. "Size matters: investigating the ecology of low-profile artificial patch reef systems," 2018 Texas Chapter AFS Annual Meeting, Texas Chapter of the American Fisheries Society, College Station, TX. (January 27, 2018)

Richard Kline, Daniel Alder, David Hicks, Gary Glick, Dale Shively, and J. 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 Hicks, Carlos Cintra-Buenrostro, Richard Kline, 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)

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

David Hicks, Carlos Cintra-Buenrostro, Richard Kline, 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 Kline, Jonathan Rodriguez, 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, Abdullah Rahman, and Richard Kline. "Combined sidescan and parametric sonar mapping of seagrass habitat and associated sediments," Texas Bays and Estuaries Meeting, National Estuarine Research Reserve, Port Aransas, Texas. (April 14, 2016)

Alex Alder and Richard 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 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 Hicks, Carlos Cintra-Buenrostro, Richard Kline, 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 Kline and Taylor LaFortune. "Mitochondrial Genomics of the South Texas Siren," International Herpetological Symposium, San Antonio Zoo, San Antonio, TX. (May 29, 2015)

Michael Bollinger and Richard 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 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 Rodriguez and Richard 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 Kline and Michael 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 Kline and Catheline 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 Arney and Richard 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 Kline and Sarah 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 Kline and Catheline 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 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 Kline, Rachel Arney, Catheline Froehlich, and Michael 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, Richard Kline, 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 Hicks, Carlos Cintra-Buenrostro, and Richard 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, Richard Kline, and Lucia 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 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, Richard Kline, David Hicks, 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 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 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, Richard Kline, David Hicks, Carlos 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, Richard Kline, David Hicks, 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 Kline, Allyse Ferrara, G. 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 Hicks, Carlos Cintra-Buenrostro, Richard 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 Kline, Alysse Ferrara, G. Holt, Izhar 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, T. Maginnis, A. Gilerson, A. Tonizzo, S. Ahmed, G. Holt, Richard Kline, and P. Brady. "Polarized camouflage in marine fish-Who does it?," Ocean Optics XX, The Oceanography Society, Anchorage, Alaska. (September 25, 2010)

Richard Kline, G. Holt, and Izhar 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 Khan, Richard Kline, G. Holt, and 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 Kline and G. 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 Kline, G. Holt, and Izhar 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 Khan, Richard Kline, Maelanie Galima, and J. 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 Khan, Junaith Mohamed, Maelanie Galima, and Richard 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 Khan, J. Mohamed, A. Banerjee, Maelanie Galima, and Richard 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'Ichthyology, Saint-Malo, France. (June 3, 2007)

Richard Kline, K. Soyano, M. Tokushim, and Izhar 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 Kline, D. Parkyn, and D. 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

Courses Taught

Advanced Ichthyology

Animal Behavior

Animal Behavior Laboratory

Biol Research Problems

Biological Lab Instruction

Biological Laboratory Instruction

Biology Internship

Biology Non-Sci Major Lab I

Biology Non-Sci Majors Lab I

Biology Non-Science Majors Lab I

Biology Non-Science Majors Lab II

Biology for Sci Majors I Lab
Biology for Sci Majors II Lab
Biology for Science Majors I
Biology for Science Majors II Lab
Biology for Science Majors Laboratory I
Cell and Molecular Biology Laboratory
Comp Exam Ext
Continuing Thesis
Current Issues in Biology
Envr Sci Res Proj
General Biology I
General Biology Laboratory I
Graduate Biological Research Problems
Graduate Internship
Graduate Research
Graduate Seminar II
Ichthyology
Ichthyology Laboratory
Independent Research III
Marine Biology Internship
Research Problems in Biology
Scientific Thinking
Thesis
Thesis I
Thesis II
Thesis Proposal
Topic in Biology - Grad Intern
Topic: Supervised Teaching
Topics in Biology

Non-Credit Instruction

• Guest Lecture & Field Trip, Rio Grande Valley Chapter Texas Master Naturalist Program, 35.
(May 12, 2015)

- Guest Lecture & Field Trip, 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. Connor Gallagher, "Behavioral telemetry of the Common Snook in the Bahia Grande" (September 2018)

Master's Thesis Committee Chair. Jonathan Cawfield, "Niche Overlap Between Two Species of Snook in the Lower Laguna Madre" (September 2018)

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

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

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)

Master's Thesis Committee Member. Herman Ramsden, "A comparison of sediment accumulation in LRGV rescas " , School of Earth, Environmental, and Marine Sciences. (January 2018)

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

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

Master's Thesis Committee Chair. Alejandra Olvera, "Captive Husbandry and optimal feed composition for the Pangolin, family: Manidae" , Department of Biology. (September 2017)

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

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 2017)

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

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)

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

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 2016)

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)

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 1, 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 1, 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 1, 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 Chair. Harley Pastore, "Siren eDNA" , School of Earth, Environmental, and Marine Sciences. (September 1, 2016 - March 15, 2017)

Master's Thesis Committee Member. Maria Cooksey, "Benthic" , 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-spotten 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, "Analyzed 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, "Developed 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. Alecksander 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)

Master's Thesis Committee Chair. Maria Cooksey, "Telemetry using accelerometers in Red Snapper, Lutjanus campechanus" , Biological Sciences (UTB). (September 1, 2013 - December 31, 2013)

Undergraduate Supervised Research. Jessica Saenz, "Molecular techniques in Marine Science" , Biological Sciences (UTB). (September 1, 2012 - December 31, 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 Le, "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, SEEMS Annual Review Committee. (September 2017)

Committee Member, SEEMS Tenure and Promotion Committee. (September 2017)

Committee Member, OCES Graduate Program Admissions Committee. (January 2017)
Committee Member, Marine Science PhD program Committee. (September 2016)
Committee Member, Port Isabel Campus Planning Committee. (September 2016)
Committee Member, Dive Safety Committee. (September 2015)
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)

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

Grant Proposal Reviewer, External , New York Sea Grant (August 2018 - August 2018)
Judge , Texas Wildlife Association , Dallas , (February 10, 2018)
Judge , Texas Chapter of the American Fisheries Society , College Station , (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

- Board Member , Valley Sportsmen . (February 2015)
- Guest Speaker , Rio Grande Valley Chapter Texas Master Naturalist , San Benito , (October 2011)
- Member , Red Tide Rangers, LRGV , South Padre Island , (September 2011)
- Guest Speaker , Texas Coastal Naturalists , South Padre Island , (September 2011)

- Guest Speaker , Rio Grande Valley Chapter Texas Master Naturalists , San Benito , (March 7, 2018)
- Guest Speaker , World Outdoor Wildlife Expo , South Padre Island , (January 27, 2016)
- Board Member , Texas International Fishing Tournament (TIFT) , Port Isabel , (January 2015 - December 2015)
- Other , Texas International Fishing Tournament (TIFT) , Port Isabel , (September 2011 - August 2015)
- Committee Chair , Cameron County Coastal Issues Committee . (January 2012 - December 2014)