Steven Eugene Saul, Ph.D.
Associate Professor
Arizona State University
6073 S. Backus Mall, Mail Code 2780
Mesa, AZ 85212, USA
1.786.423.7625
Email: steven.saul@asu.edu

Education:

University of Miami/RSMAS, Miami, Florida
Ph.D. Degree in Marine Biology and Fisheries (December 2012)
Dissertation Title: An individual-based model to evaluate the effect of fisher behavior on reef fish catch per unit effort.

University of Miami/RSMAS, Miami, Florida
Masters of Arts Degree in Marine Affairs and Policy (May 2006)
Internship Report Title: A holistic assessment of the biological, cultural and political state of the yellowtail snapper and Caribbean spiny lobster fisheries in the U.S. Virgin Islands.

University of Richmond, Richmond, Virginia
Bachelor of Science Degree in Environmental Studies and Music (May 2004)

Professional Experience:

Arizona State University (March 2016 – Present)
College of Integrative Sciences and Arts, Science and Mathematics Unit, Polytechnic Campus
Mesa, Arizona
Associate Professor (May 2025 to Present)
Assistant Professor (March 2016 to April 2025)
Secondary Appointment: *Affiliate Faculty,* School for Ocean Futures, College of Global Futures
Supervise and mentor an international team of students (graduate and undergraduate) and post-doctoral scholars. Instruct undergraduate and graduate courses in ecology, fishery dynamics and management, and ethical resource management. Fund and maintain a research portfolio which applies an interdisciplinary systems-based approach to understanding marine resource dynamics, the ways coastal community residents use these resources, and the feedbacks between the two. Scientific findings support the development of equitable policy solutions which sustain food security, cultural ways of life, and ecological systems.

Gulf of Mexico Fisheries Management Council, Science and Statistical Committee, Appointed Voting Member (August 2021 – Present)
Tampa, Florida
Appointed Voting Member
Peer review scientific fisheries stock assessments and related scientific analyses and develop policy recommendations from scientific research for consideration by the Gulf Council. Policy recommendations passed by the Gulf Council are adapted into law by the National Marine Fisheries Service.

Key Marine Consulting, LLC (October 2010 Present)
Phoenix, Arizona
Owner, Founding Partner, and Chief Scientist
Promoting Sustainability Through Sound Science, Education, and Creative Place Based Policy Solutions. Projects include: 1) Developing multiple species

biological and socioeconomic assessment of snapper and grouper fish stocks across the country of Indonesia for the National Research and Innovation Agency.2) Providing technical trainings in statistical and mathematical techniques for assessing fish populations; 3) Chief scientist for the POSEIDON project (Ocean Conservancy, The Nature Conservancy, Oxford University, and in-country partners) developing agent-based modeling software to manage fisheries by representing the interactions of marine ecosystem and human behavior dynamics. Implemented with Indonesian federal government for reef fish management, Interamerican Tropical Tuna Commission to manage tuna populations in the Pacific Ocean, and for management in the U.S. West Coast groundfish fishery. 4) Development and implementation of a marine fisheries educational program for Biscayne and Everglades National Parks for first time offenders of fishing regulations and the public. 5) Evaluation and modeling of ecosystem services for Cementos Argos company and Ecoral organization, Bogota, Colombia. 6) Development of agent-based model for the Gulf of California corvina fishery for Environmental Defense Fund.

NOAA Fisheries Office of Science and Technology: Contractor with ECS Federal (May 2024 – May 2025)
Silver Spring, Maryland
Stock Assessment Scientist
Develop semi-automated computational workflow software to support the efficient throughput of fish stock assessments. Assist with creating R libraries for stock assessment report development and the processing of data into formatted input files for stock assessment models. Collaborate with each of the NOAA Fisheries region scientists and fishery management councils for product development and implementation.

Environmental Defense Fund (January 2022 – December 2023)
San Francisco, California
Complex Systems Scientist
Develop and advocate science-based, economically sound, fair, and equitable environmental solutions through building ecosystem resilience, optimizing co-benefits across complex systems, identifying strategies to build resilience to climate change across the socioeconomic and food security aspects of various fisheries, and analyzing management interventions and strategies suited to fisheries in a changing climate.

Nova Southeastern University (August 2013 – February 2016)
National Coral Reef Institute, Oceanographic Campus
Ft. Lauderdale, Florida
Senior Research Scientist
Participated in month long research expeditions aboard the M/Y Golden Shadow in collaboration with the Living Oceans Foundation and local scientists and managers in each host nation. Assisted with logistical planning and execution of ship and small boat navigation and mooring operations on each expedition. Collected socioeconomic data from fishing communities in small island developing countries. Supervised and mentored a team of students (graduate and undergraduate) and post-doctoral scientists in the collection and statistical analysis of remotely sensed and field collected data from remote coral reefs in tropical small island developing nations to develop two-meter resolution maps of coral reef habitat.

National Marine Fisheries Service (January 2011 – August 2013)
Miami, Florida
Research Fisheries Biologist

Led and participated in population assessments for economically important coral reef fish populations in the Gulf of Mexico, South Atlantic and Caribbean regions using statistical modeling and data analysis techniques. Presented scientific results and management advice to regional scientific and management bodies. Conducted research to improve stock assessment methodologies and procedures. Collaborated with managers, scientists, fishermen, and other stakeholders to research and assess fish population dynamics.

Biscayne National Park (May 2007 – 2009)
Homestead, Florida
Fisheries Biological Technician
Developed and implemented marine fisheries educational program for first time offenders of fishing regulations and the South Florida fishing community. Assisted with development and maintenance of coral nursery.

Cooperative Institute for Marine and Atmospheric Studies, University of Miami (May 2004 to December 2010)
Miami, Florida
Fisheries Research Assistant
Interned with the National Marine Fisheries Service's Southeast Fisheries Science Center. Assisted with the preparation and analysis of fishery data for Gulf of Mexico and U.S. Caribbean stock assessments. Recovered paper records from the U.S. Caribbean local government and developed a relational database with these records which is currently used to assess and manage fish populations in the region.

Grants Awarded: *External While at ASU*

NOAA Fisheries via ECS Federal. December 1, 2025 to November 30, 2026. Agent-based modeling to understand how adjustments to the Individual Fishing Quota (IFQ) program in the Gulf of America could maximize American seafood production. $86,000. Role: PI.

Global Fishing Watch. January 1, 2026 to December 31, 2026. Open Ocean Research Program – Seed Grant. Cross Pollinating Global Fishing Watch and Indonesian Government Demersal Fishing Location Data to Understand Fishing Behavior and Fleet Size in Support of Catch Limit Policy Development and Other Policy Considerations. $10,000. Role: PI.

U.S. Embassy in Jakarta, U.S. Department of State. October 1, 2024 to January 31, 2026. Fisheries assessment and management capacity building through professional trainings, workshops, and the exchange of ideas. $93,928. Role: PI.

Gordon and Betty Moore Foundation via The Ocean Conservancy. January 1, 2021 to July 31, 2024. Project Title: The POSEIDON model for ocean fisheries. $616,187. Role: PI.

The Ocean Conservancy. January 2018 to December 2020. Pioneering a new era of fishery management: the POSEIDON model of ocean fisheries. $376,298. Role: PI.

Gulf of Mexico Research Initiative. January 2016 through December 2018. Avoiding Surprises: understanding the impact of the Deepwater Horizon oil spill on the decision making behaviors of fishers and how this affects the assessment and management of commercially important fish species in the Gulf of Mexico using an agent-based model. $967,226. Role: PI.

NOAA Fisheries, Southeast Fisheries Science Center (via Cooperative Institute of Marine and Atmospheric Science, University of Miami). August 2016 through July 2020. Fantasy and folly in fisheries-dependent length sampling: a review of Trip Interview Program (TIP) sampling protocols and its effect on stock assessment. $137,122. Role: PI.

Internal While at ASU

College of Integrative Sciences and Arts Summer Research Award. $7,500. Role: PI. (Summers 2023, and 2024).

College of Integrative Sciences and Arts Summer Research Award. $5,000. Role: PI. (Summers 2017, 2018, 2019, 2020, 2021, and 2022).

Prior to ASU

NOAA Coral Reef Conservation Grant (awarded to Key Marine Consulting, Inc.). January 2014 to June 2015. The Catch and Release Program: Achieving Fisheries Management Through Education in South Florida. $30,000. Role: PI.

NOAA Coral Reef Conservation Grant (awarded to Key Marine Consulting, Inc.). July 2012 to December 2013. The Catch and Release Program: Achieving Fisheries Management Through Education. $21,000. Role: PI.

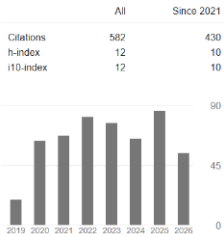
Joint NMFS/Sea Grant Population Dynamics Fellowship. June 2008 to May 2011. The Development and Use of an Agent-based Model to Evaluate the Effect of Effort Redistribution Due to Fleet Heterogeneity and Policy Implementation on Estimating a Standardized Catch per Unit Effort Index of Abundance. $115,500. Role: PI.

NOAA Coral Reef Conservation Grant (awarded to Key Marine Consulting, Inc.). October 2010 to March 2012. Biscayne National Park Fisheries Education Class. $26,000. Role: PI.

National Park Foundation Impact Grant (awarded to Biscayne National Park). February 2011. Biscayne and Everglades National Parks Fisheries Education Class. $10,000. Role: PI.

Publications Peer Reviewed:

h-index = 12



While at ASU

Collins, J.R., M.R. Cape, R.E. Boenish, C.R. Benitez-Nelson, S.C. Doney, R. Fujita, S.D. Gaines, R.L. Gruby, D. Jin, H.H. Kim, K.M. Kleisner, G. Mariani, L.A. Moore, A.J. Pershing, D.N. Radar, J. Roman, G.K. Saba, J.N. Sanchirico, **S. Saul**, M.S. Savoca, and A. Waller. 2025. The Biogeochemistry of Natural Climate Solutions Based on Fish, Fisheries, and Marine Mammals: A Review of Current Evidence, Research Needs, and Critical Assessment of Readiness. *Global Biogeochemical Cycles* 39(7): e2024GB008393. (Journal Impact Factor = 5.2). https://doi.org/10.1029/2024GB008393

Anderson, B.N., N. Hammerschlag, **S. Saul**, J. Dodd, H.D. Bowlby, Y. Kang, A.J. Gallagher, and J.A. Sulikowski. 2025. Life stage and seasonal habitat use of the porbeagle *Lamna nasus* in the Northwest Atlantic Ocean. *Frontiers in Marine Science* 22: 1553509. (**First author is co-advised student;** Journal Impact Factor = 2.8). https://doi.org/10.3389/fmars.2025.1553509

Anderson, B.N., H.D. Bowlby, **S. Saul**, Y. Kang, N. Hammerschlag, L.J. Natanson, and J.A. Sulikowski. 2024. First insights into the vertical habitat use of young porbeagles in the Northwest Atlantic with implications for bycatch reduction strategies. *Marine and Freshwater Research* 75(12): MF23182. (**First author is co-advised student**; Journal Impact Factor = 1.8). https://doi.org/10.1071/MF23182

Carrella, E., J. Powers, **S. Saul**, R. M. Bailey, N. Payette, K. A. Vert-pre, A. Ananthanarayanan, M. Drexler, C. Dorsett, and J. K. Madsen. 2024. Rejection sampling and agent-based models for data limited fisheries. *Frontiers in Marine Science* 11: 1243954. (**First author is co-advised post-doc**; Journal Impact Factor = 3.7). https://doi.org/10.3389/fmars.2024.1243954

Dimarchopoulou, D., E. Wibisono, **S. Saul,** P. Carvalho, A. Nugraha, P.J. Mous, and A.T. Humphries. 2023. Combining catch-based indicators suggests overexploitation and poor status of Indonesia's deep demersal fish stocks. *Fisheries Research* 268: 106854. (**First author is co-advised student**) Journal Impact Factor = 1.903. https://doi.org/10.1016/j.fishres.2023.106854

Madsen, J.K., Ekawaty, R., Ananthanarayanan, A., Bailey, R., Carrella, E., Dorsett, C., Drexler, M., Mous, P., Muawanah, U., and **S. Saul.** 2023. Understanding Fisher Behavior: the case of snapper fishers in Indonesia. *Marine Resource Economics* 38(1): 85-100. (**First author is co-advised postdoc**; author order alphabetical after first two; Journal Impact Factor = 1.851). https://doi.org/10.1086/722725

Lu, X., **S. Saul**, and C. Jenkins. 2022. Statistical methods for predicting spatial abundance of reef fish species. *Ecological Informatics* 69: 101624. (**First author is co-advised student**; Journal Impact Factor = 3.142). https://doi.org/10.1016/j.ecoinf.2022.101624

Woodyard, M., B.A. Polidoro, C.W. Matson, R.A. McManamay, **S. Saul**, K.E. Carpenter, T.K. Collier, R. Di Giulio, R.D. Grubs, J.P. Incardona, C. Linardich, J.A. Moore, I.C. Romero, D. Schlenk, and K. Strongin. 2022. A comprehensive petrochemical vulnerability index for marine fishes in the Gulf of Mexico. *Science of the Total Environment* 821: 152892. (**First author is co-advised student**; Journal Impact Factor = 7.963). https://doi.org/10.1016/j.scitotenv.2021.152892

Strongin, K.R., A. Lancaster, B. Polidoro, A. Aguilar-Perera, P. González Diaz, J. González-Méndez, L. McKinney, H. Espinosa, P. Daniel Pech, D. Cobián Rojas, **S. Saul**, and S. Perera Valderrama. 2022. A proposal framework for tri-national agreement on biological conservation in the Gulf of Mexico Large Marine Ecosystem. *Marine Policy* 139: 105041. (**First author is co-advised student**; co-authors are content contributors listed alphabetically; Journal Impact Factor = 3.228). https://doi.org/10.1016/j.marpol.2022.105041

Ainsworth, C.H, E.P. Chassignet, D. French-McCay, C.J. Beegle-Krause, I. Berenshtein, J. Englehardt, T. Fiddaman, H. Huang, M. Huettel, D. Justic, V.H. Korafalu, Y. Liu, C. Mauritzen, S. Murawski, S. Morey, T. Özgökmen, C.B. Paris, J. Ruzicka, **S. Saul**, J. Sheperd, S. Socolofsky, H. Solo Gabriele, T. Sutton, R.H. Weisberg, C. Wilson, L. Zheng, and Y. Zheng. 2021. Ten years of modeling the Deepwater Horizon oil spill. *Ecological Modelling and Software* 142: 105070 (Journal Impact Factor = 4.552). https://doi.org/10.1016/j.envsoft.2021.105070

Saul, S., E. Brooks, and D. Die. 2020. How fisher behavior affects stock assessment: insights from an agent-based modeling approach. *Canadian Journal of Fisheries and Aquatic Sciences* 77(11): 1749-1757. (Journal Impact Factor = 2.631). https://doi.org/10.1139/cjfas-2019-0025

Strongin, K., C. Linardich, B. Polidoro**, S. Saul**, G. Ralph, and K. Carpenter. 2020. Translating globally threatened species information into regional guidance for the Gulf of Mexico. *Global Ecology and Conservation* 23: e01010. (Journal Impact Factor = 2.751). **First author is co-advised student**. https://doi.org/10.1016/j.gecco.2020.e01010

Burgess, M.G., M. Drexler, R.L. Axtell, R.M. Bailey, J.R. Watson, A. Ananthanaryanan, R. Cabral, E. Carrella, M. Clemence, C. Costello, C. Dorsett, S.D. Gaines, E.S. Klein, P. Koralus, G. Leonard, S.A. Levin, L.R. Little, J. Lynham, J. Koed Madsen, A. Merkl, B. Owashi, S.L. Scott, **S. Saul**, I.E. van Putten, and S. Wilcox. 2020. Opportunities for agent-based modeling in human dimensions of fisheries. *Fish and Fisheries* 21: 570-587. **Authors in alphabetical order after first five; contributed 20% to publication effort.** (Journal Impact Factor = 6.655). https://doi.org/10.1111/faf.12447

Carrella, E., **S. Saul**, M.G. Burgess, R.B. Cabrall, M. Drexler, K. Marshall, R.M. Bailey, C. Dorsett, and J.K. Madsen. 2020. Simple adaptive rules describe fishing behavior better than perfect rationality in the U.S. West Coast groundfish fishery. *Ecological Economics* 169: 106449. **First author is co-advised post-doc; contributed equally as first author.** (Journal Impact Factor = 4.281). https://doi.org/10.1016/j.ecolecon.2019.106449

Purkis, S., A.C.R. Gleason, C.R. Purkis, A.C. Dempsey, P. Renaud, M. Faisal, **S. Saul**, and J.M. Kerr. 2019. High-resolution habitat and bathymetry maps for 65,000 km^2 of Earth's remotest coral reefs – the Living Oceans Foundation Global Reef Expedition. *Coral Reefs* 38(3): 467-488. **contributed 25% to publication effort.** (Journal Impact Factor = 3.095). https://doi.org/10.1007/s00338-019-01802-y

Saul, S. and C. Capielo. 2019. Catch and release: the effectiveness of an educational class on anglers caught with fishing citations. *Fisheries* 44(2): 59-72. (Journal Impact Factor = 3.000). https://doi.org/10.1002/fsh.10178

Bailey, R., E. Carrella, R.L. Axtell, M.G. Burgess, R.B. Cabral, M. Drexler, C. Dorsett, J.K. Madsen, A. Merkl, and **S. Saul**. 2019. A computational approach to managing coupled human-environmental systems: the POSEIDON model of ocean fisheries. *Sustainability Science*, 14: 259-275. **Author order alphabetical after first two authors; contributed 20% to publication effort; second author is co-advised post-doc**). (Journal Impact Factor = 3.855). https://doi.org/10.1007/s11625-018-0579-9

Saul, S. and D. Die. 2016. Modeling the decision-making behavior of fishers in the reef fish fishery on the West Coast of Florida. *Human Dimensions of Wildlife* 21(6): 567-586. (Journal Impact Factor = 2.771). https://doi.org/10.1080/10871209.2016.1198853

Prior to ASU

Saul, S. and S. Purkis. 2015. Semi-automated object-based classification of coral reef habitat using discrete choice models. *Remote Sensing* 7: 5894-15916. (Journal Impact Factor = 3.406). https://doi.org/10.3390/rs71215810

Saul, S., D. Die., J.F. Walter III, D.F. Naar, and B.T. Donahue. 2013. Modeling the spatial distribution of commercially important reef fish on the West Florida Shelf. *Fisheries Research* 143: 12-20. (Journal Impact Factor = 1.874). https://doi.org/10.1016/j.fishres.2013.01.002

Saul, S., D. Die, E.N. Brooks, and K. Burns. 2012. An individual-based model of ontogenetic migration in reef fish using a biased random walk. *Transactions of the American Fisheries Society* 141: 1439-1452. (Journal Impact Factor = 1.502). https://doi.org/10.1080/00028487.2012.697091

Peer Reviewed Book Chapters

Payette, N., E. Carella, K.A. Vert-Pre, B. Powers, **S. Saul,** and R. Bailey. 2023. Attracted to fish: a gravity-based model of purse-seine vessel behaviour. *In:* Squazzoni, F. (eds) Advances in Social Simulation. ESSA 2022. Springer Proceedings in Complexity. Edinburgh, United Kingdom: Springer, Cham. (Peer reviewed book). pp. 87-103. https://doi.org/10.1007/978-3-031-34920-1_8. ISBN: 978-3-031-34919-5. (**First four authors are my co-advisees**).

Saul, S. and S. J. Pittman. 2017. Human ecology at sea: modeling and mapping human-seascape interactions. *In:* Seascape Ecology: Taking Landscape Ecology Into the Sea. West Sussex, United Kingdom: Wiley and Sons. (Peer reviewed book). pp. 391-427. ISBN: 978-1-119-08443-3.

Submissions Under Review

Saul, S., E. Carrella, F. Satria, L. Sadiyah, P. Mous, A. Ananthanarayanan, R. Bailey, C. Dorsett, M. Drexler, D.S. Efendi, R. Ekawaty, A. Humphries, and E. Wibisono. *Under Peer Review.* Biological, economic and nutritional trade-offs in tropical information limited fisheries: Indonesia's demersal finfish. *Environmental and Sustainability Indicators* (Journal Impact Factor = 5.6).

Saul, S., E. Carrella, F. Satria, L. Sadiyah, P. Mous, R. Bailey, C. Dorsett, M. Drexler, D.S. Efendi, R. Ekawaty, A. Humphries, and E. Wibisono. *Under Peer Review.* Implementing an ensemble of information limited fisheries assessment tools to estimate population health, socioeconomic, and nutritional outcomes. *MethodsX* (Journal Impact Factor = 1.9).

Saul, S., G. Carroll, H. Harlisa, A. Budiayu, A.M. Waskitam, I. Marliana, A.Y. Fauzan, A. Yasser, A. Fathanah, D. Kurniawan, A. Halim, E. Litsinger, J.T. Anderson, P.Y. Boon, J.G. Eurich, K. Kleisner, A. Ahmad, M. Assagaf, A. Karman, F. de Lima, R. Rifai, and K.E. Holmes. *Under Peer Review*. How to rebuild a reef fishery? Coupling data-limited assessments with community-led management solutions in Indonesia. *Conservation Science and Practice.* (Journal Impact Factor = 2.8). (**First two authors are my co-first authors**).

Strongin, K.R. and **S. Saul**, *Under Peer Review.* Foodweb Model to Inform Ecosystem Based Management Across the Northern Gulf of America. *BMC Marine Science.* (**First author is my student**; Journal Impact Factor = 1.6).

In Progress

Saul, S. *In Progress*. Subsistence or sale: fishing decisions and food in the Kingdom of Tonga. *Sustainability.*

Chan, A.N., N.A. Steins, O. Thébaud, and **S. Saul**. *In Progress.* Challenges and opportunities with incorporating human dimensions to improve fishery catch advice. *ICES Journal of Marine Science.*

Fish Stock Assessments and Technical Reports:

Schiano, S., **S. Saul**, S. Breitbart, B. Li, K. Johnson, L. Ailloud, C. Askelrud, K. Doering, D. Hennen, E. Holmes, M. Oshima, M. Sculley, and B. Williams. Accepted. Current practices, challenges, and improvements to U.S. federal fisheries assessment workflows. NOAA Technical Memo NMFS F/SPO-XXX.

Vert-Pre, K.A., N. Payette, A. Norelli, B. Powers, M. Drexler, **S. Saul**, A. Ananthanarayanan, R. Bailey, J. Koed Madsen, E. Carrella, A. Aires-da-Silva, E. Altamirano, D. Fuller, C. E. Lennert-Cody, J. Lopez, J. Marrow, M. Maunder, C. Minte-Vera, G. Moreno, D. Ovando, M. Roman, D. Squires, K. Schaefer, N. Vogel, H. Xu. 2024. Evaluate the impact of alternative management scenarios for the eastern Pacific Ocean tropical tuna species using POSEIDON. Document FAD-08 INF-A. https://www.iattc.org/getattachment/34dc00b7-981d-4ada-844a-20f1a248b522/FAD-08-INF-A_POSEIDON-FAD-limit-scenario.pdf

Saul, S., G. Carroll, Harlisa, A. Halim, and E. Litsinger. 2023. Data-limited stock assessments to increase the sustainability and climate resilience of the snapper-grouper fishery in North Maluku, Indonesia. *Environmental Defense Fund*. Prepared for Wildlife Conservation Society and Kreditanstalt für Wiederaufbau Bankengruppe.

Vert-Pre, K.A., N. Payette, E. Carrella, B. Powers, **S. Saul,** M. Drexler, J. K. Madsen, A. Ananthanarayanan, and R. Bailey. 2023. POSEIDON, a tool for the exploration of alternative management scenarios for Eastern Pacific Ocean tropical tuna species. *Inter-American Tropical Tuna Commission (IATTC) Scientific Advisory Committee Meeting* 14: Document SAC-14 INF-G. https://iattc.org/GetAttachment/72f55682-fee9-4d6d-8e4f-a51a89af1f6a/SAC-14-INF-G_Poseidon.pdf (**First four authors are my co-advisees**)

Saul, S. and P. Mous. 2019. Technical Memo on the Status of Snapper and Grouper Stocks in WPP 713 and Rebuilding Projections. The Ocean Conservancy, Washington D.C. (*Developed at the request of the Indonesian Federal Government to inform fisheries management decisions*).

Burgess, M.G., M. Drexler, R.L. Axtell, R.M. Bailey, J.R. Watson, A. Ananthanaryanan, R. Cabral, E. Carrella, M. Clemence, C. Costello, C. Dorsett, S.D. Gaines, E.S. Klein, P. Koralus G. Leonard, S.A. Levin, L.R. Little, J. Lynham, J. Koed Madsen, A. Merkl, B. Owashi, S.L. Scott, **S. Saul**, I.E. van Putten, and S. Wilcox. 2018. Opportunities for agent-based modeling in fisheries social science. *SocArXiv*. November 15. https://osf.io/preprints/socarxiv/gzhm5/

Bruckner A.W., A.C. Dempsey, G. Coward, **S. Saul**, E.M. Rauer, and A. Heemsoth. 2016. Global Reef Expedition: Lau Province, Fiji, Final Report. Khaled bin Sultan Living Oceans Foundation, Annapolis, MD. 113p. ISBN: 978-0-9975451-0-4. https://www.livingoceansfoundation.org/publication/global-reef-expedition-final-report-lau-province-fiji/

Linton, B., **S. Saul**, C. Porch, N. Cummings, and J.C. Tetzlaff. 2013. Gulf of Mexico Red Snapper Stock Assessment Report. Southeast Data Assessment and Review, SEDAR31. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/sedar-31

Saul, S. and J. Walter. 2012. Using a censored regression modeling approach to standardize red snapper catch per unit effort using recreational fishery data affected by a bag limit. Southeast Data Assessment and Review, SEDAR 31-DW33 and NMFS Sustainable Fisheries Division Contribution Number SFD-2012-020. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States.

http://sedarweb.org/s31dw33-using-censored-regression-modeling-approach-standardize-red-snapper-catch-unit-effort-using

Bryan, M. and **S. Saul.** 2012. Recreational indices for cobia and Spanish mackerel in the Gulf of Mexico. Southeast Data Assessment and Review, SEDAR28-DW22. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s28dw22-recreational-indices-cobia-and-spanish-mackerel-gulf-mexico

Saul, S. and J. Isely. 2011. Gulf of Mexico Gray Triggerfish Update Assessment Report. Southeast Data Assessment and Review, SEDAR09-Update. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/2011-update-sedar-09-gulf-mexico-gray-triggerfish

Saul, S., S.C. Turner, D. Die, and A. Livergood. 2008. Comparison of growth between cohorts of juvenile bluefin tuna (*Thunnus thynnus*). *ICCAT Collective Volume of Scientific Papers* SCRS/2008/168. https://www.iccat.int/Documents/Meetings/Docs/SCRS/SCRS-08-168_Saul%20et%20al.pdf

Saul, S. and D. Die. 2006. Using an agent-based, object-oriented model to test the performance of catch per unit of effort as an estimator of fish abundance in small-scale, multispecies fisheries. *Proceedings of the Gulf and Caribbean Fisheries Institute* 59: 267-274.

Saul, S. 2006. Length frequency analysis of the Gulf of Mexico recreational red grouper fishery. Southeast Data Assessment and Review, SEDAR12-DW12 and Sustainable Fisheries Division Contribution Number SFD-2006-35. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s12dw12-length-frequency-analysis-gulf-mexico-recreational-red-grouper-fishery

Saul, S. 2006. Quantitative historical analysis of the United States and Cuban Gulf of Mexico red grouper commercial fishery. Southeast Data Assessment and Review, SEDAR12-DW11 and Sustainable Fisheries Division Contribution Number SFD-2006-34. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s12dw11-quantitative-historical-analysis-united-states-and-cuban-gulf-mexico-red-grouper-commercial

Saul, S. and G.W. Ingram. 2005. A categorical approach to modeling catch at age for various sectors of the gray triggerfish (Balistes apriscus) fishery in the Gulf of Mexico. *Proceedings of the Gulf and Caribbean Fisheries Institute* 58: 207-216.

Nowlis, J.S. and **S. Saul.** 2005. Aggregated production model for the Gulf of Mexico gray triggerfish (*Balistes capriscus*) stock. Southeast Data Assessment and Review, SEDAR9-AW08 and Sustainable Fisheries Division Contribution Number SFD-2005-32. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9aw08-aggregated-production-model-gulf-mexico-gray-triggerfish-balistes-capriscus-stock

Saul, S. 2005. Length frequency analysis and catch at age estimations for commercially landed gray triggerfish (*Balistes capriscus*) from the Gulf of Mexico. Southeast Data Assessment and Review, SEDAR9-DW11 and Sustainable Fisheries Division Contribution Number SFD-2005-20. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9dw11-length-frequency-analysis-and-calculated-catch-age-estimations-commercially-landed-gray

Saul, S. 2005. Estimated gray triggerfish (*Balistes capriscus*) landings from the Gulf of Mexico headboat fishery. Southeast Data Assessment and Review, SEDAR9-DW12 and Sustainable Fisheries Division Contribution Number SFD-2005-21. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9dw12-estimated-gray-triggerfish-balistes-capriscus-landings-gulf-mexico-headboat-fishery

Saul, S. 2005. Estimated gray triggerfish (*Balistes capriscus*) commercial landings and price information for the Gulf of Mexico fishery. Southeast Data Assessment and Review, SEDAR9-DW13 and Sustainable Fisheries Division Contribution Number SFD-2005-22. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9dw13-estimated-gray-triggerfish-balistes-capriscus-commercial-landings-and-price-information-gulf

Saul, S. 2005. Estimated gray triggerfish (*Balistes capriscus*) recreational landings for the state of Texas. Southeast Data Assessment and Review, SEDAR9-DW14 and Sustainable Fisheries Division Contribution Number SFD-2005-23. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9dw14-estimated-gray-triggerfish-balistes-capriscus-recreational-landings-state-texas

Saul, S. and P. Phares. 2005. Estimated gray triggerfish (*Balistes capriscus*) landings from the Marine Recreational Fishery Statistics Survey (MRFSS) in the Gulf of Mexico. Southeast Data Assessment and Review SEDAR9-DW15 and Sustainable Fisheries Division Contribution Number SFD-2005-24. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9dw15-estimated-gray-triggerfish-balistes-capriscus-landings-marine-recreational-fishery-statistics

Saul, S. 2005. Length frequency analysis for the gray triggerfish (*Balistes capriscus*) recreational fishery in the Gulf of Mexico. Southeast Data Assessment and Review SEDAR9-DW16 and Sustainable Fisheries Division Contribution Number SFD-2005-25. Gulf of Mexico Fisheries Management Council: Tampa, Florida, United States. http://sedarweb.org/s9dw16-length-frequency-analysis-gray-triggerfish-balistes-capriscus-recreational-fishery-gulf

Chormanski, S.D., D. Die, and **S. Saul.** 2005. Length frequency analysis of Caribbean Spiny Lobster (*Panulirus argus*) sampled by the Puerto Rico Commercial Trip Interview Program (1980 – 2003). Southeast Data Assessment and Review SEDAR8-RW02 and Sustainable Fisheries Division Contribution Number SFD-2005-013. Caribbean Fisheries Management Council: San Juan, Puerto Rico, United States. http://sedarweb.org/sedar-8-rw-02-length-frequency-analysis-caribbean-spiny-lobster-panulirus-argus-sampled-puerto-rico

Saul, S., G. Diaz and A. Rosario. 2005. Preliminary analysis and standardized catch per unit effort indices for yellowtail snapper fishery independent data in Puerto Rico. Southeast Data Assessment and Review SEDAR8-AW02 and Sustainable Fisheries Division Contribution Number SFD-2005-012. Caribbean Fisheries Management Council: San Juan, Puerto Rico, United States. http://sedarweb.org/s8aw02-preliminary-analysis-and-standardized-catch-unit-effort-indices-yellowtail-snapper-fishery

Saul, S. and A. Rosario. 2004. Preliminary Analysis of Fishery Independent Data Collected in the U.S. Caribbean for Yellowtail Snapper (*Ocyurus chrysurus*) and Red Hind (*Epinephelus guttatus*). Southeast Data Assessment and Review SEDAR8-DW13 and Sustainable Fisheries Division Contribution Number SFD-2004-047.

Caribbean Fisheries Management Council: San Juan, Puerto Rico, United States. http://sedarweb.org/s8dw13-preliminary-analysis-fishery-independent-data-collected-us-caribbean-two-commercially

Saul, S. 2004. A review of the literature and life history study of the Caribbean spiny lobster, *Panulirus argus*. Southeast Data Assessment and Review SEDAR8-DW5 and Sustainable Fisheries Division Contribution Number SFD-2004-048. Caribbean Fisheries Management Council: San Juan, Puerto Rico, United States. http://sedarweb.org/s8dw05-review-literature-and-life-history-study-caribbean-spiny-lobster-panulirus-argus

Invited Presentations:

Saul, S. 2026. Biological, economic, and nutritional tradeoffs recovering Indonesia's snapper and grouper fishery. Jakarta Technical University of Fisheries. 19 January 2026.

Saul, S. 2026. Fisheries diplomacy: why it matters for sustainable ocean governance. Georgetown University, School of Foreign Service, Jakarta, Indonesia. 15 January 2026.

Saul, S. 2025. Fisheries Diplomacy: Capacity Building While Exploring Biological, Economic and Nutritional Trade-offs for Indonesia's Demersal Finfish Fisheries. Udayana University, Denpasar, Bali, Indonesia, 15 December 2025.

Saul, S. 2025. Recovering Indonesia's snapper and grouper fishery: biological, economic, and nutritional tradeoffs. NOAA Fisheries National Stock Assessment Science Seminar Series, 10 September 2025.

Saul, S., L. Brooks, and D. Die. 2024. How fisher behavior affects stock assessment: insights from an agent-based modeling approach. Annual Science Conference 2024, International Council for the Exploration of the Seas. Invited to Special Session: Incorporating human dimensions to improve fishing opportunities advice. 9 – 12 September 2024, Gateshead, United Kingdom.

Saul, S. 2024. How fisher behavior affects stock assessment: insights from an agent-based modeling approach. NOAA Fisheries National Stock Assessment Science Seminar Series, 4 September 2024.

Saul, S. 2023. Incorporating Socioeconomic Data into Stock Assessments and its Effect on Status Criteria Determination. Gulf of Mexico Fisheries Management Council Science and Statistical Committee Meeting, Tampa, Florida, U.S. 7 – 9 March, 2023.

Saul, S. and K. Vert-Pre. 2019. Are Agent-Based Approaches the Future of Fishery Management? The Poseidon Model & ABMs as Assessment Tools. Center for the Advancement of Population Assessment Methodology, Next Generation Stock Assessment Model Workshop. University of Wellington, Wellington, New Zealand, 4-8 November 2019.

Saul, S. 2018. Agent-based approaches to modeling fisheries management. Centre of Excellence Fisheries Modelling Workshop. Jointly sponsored by The Ocean Conservancy, The Nature Conservancy, and The Indonesian Ministry of Fisheries, Bali, Indonesia, July 30-31.

Technical Training Workshops:

Saul, S. 2026. Fisheries Stock Assessment Modeling: Best Practices in Model Fitting and Statistical Diagnostics Using the Stock Synthesis Version 3 Fisheries Modeling Platform. Audience: Scientists with National Innovation Agency, Ministry of Fisheries, Government of the Republic of Indonesia. Cibinong, Bogor Regency, Indonesia, January 20-22.

Saul, S. 2025. Fisheries Stock Assessment Modeling: Scientific Support for Tactical Management Advice. Audience: Scientists with National Innovation Agency, Ministry of Fisheries, Government of the Republic of Indonesia. Bogor, Indonesia, May 20-22.

Saul, S. 2025. Fisheries Stock Assessment Modeling: Scientific Support for Tactical Management Advice. Audience: Scientists with National Innovation Agency, Ministry of Fisheries, Government of the Republic of Indonesia. Bogor, Indonesia, December 9-11.

Saul, S. 2024. Fisheries Decision Theory. Audience: Scientists with National Innovation Agency, Ministry of Fisheries, Government of the Republic of Indonesia. Jakarta, Indonesia, May 24.

Saul, S. 2024. Spatial Considerations and Fisher Behavior When Calculating Catch per Unit Effort. Audience: Scientists with National Innovation Agency, Ministry of Fisheries, Government of the Republic of Indonesia. Jakarta, Indonesia, May 24.

Saul, S. 2023. Fisheries Stock Assessment Modeling: Scientific Support for Tactical Management Advice. Audience: (1) Scientists with Provincial North Maluku Government, Republic of Indonesia; (2) Scientists and fishery managers with Environmental Defense Fund; (3) Scientists and fishery managers with Wildlife Conservation Society. Delivered via Zoom, May18.

Presentations:
*(oral unless otherwise stated as a poster; † indicates my student or postdoc is presenter; * indicates while at ASU)*

Saul, S., E. Carrella, F. Satria, L. Sadiyah, P. Mous, A. Ananthanarayanan, R. Bailey, C. Dorsett, M. Drexler, D.S. Efendi, R. Ekawaty, A. Humphries, and E. Wibisono. 2025. Recovering Indonesia's snapper and grouper fishery: biological, economic, and nutritional tradeoffs. Annual Meeting of the Asian Society of Ichthyologists and the Indo-Pacific Fish Conference. National Taiwan University, Taipei, Taiwan, June 9-13.

Saul, S., E. Carrella, F. Satria, L. Sadiyah, P. Mous, A. Ananthanarayanan, R. Bailey, C. Dorsett, M. Drexler, D.S. Efendi, R. Ekawaty, A. Humphries, and E. Wibisono. 2024. Biological, economic, and nutritional trade-offs managing Indonesia's snapper and grouper fishery. Marine Socio-Ecological Systems Conference, Yokohama, Japan, June 3-7.

***Saul, S.** 2021. Evaluating the status of Indonesian deepwater snapper and grouper fishery stocks using a model ensemble approach. World Fisheries Congress. Adelaide, Australia, September 20-24.

***Saul, S.** 2019. Progress towards an agent-based model that explores the effects of the Deepwater Horizon Oil Spill on fish and fishers in the Gulf of Mexico. Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 4-8.

*Lu, X. and **S. Saul.** 2019. A Bayesian hierarchical model for spatial analysis of reef habitat data of the Gulf of Mexico. Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 4-8.

***Saul, S.** 2018. Sustaining ocean life: understanding the behavior of fishers for resource management. Science and Mathematics Colloquium Series at the Polytechnic Campus, August 29, 2018.

***Saul, S.** 2018. Quantifying and Comparing Fisher Decision-making Strategies Before and After the Deepwater Horizon Oil Spill. International Institute for Fisheries Economics and Trade, Biannual Meeting. Seattle, Washington, July 17-20.

***Saul, S.** 2018. Questionnaires, discrete choice models, and agent-based models of fisher behavior: what can we learn from each? International Institute for Fisheries Economics and Trade, Biannual Meeting. Seattle, Washington, July 17-20.

†*Powers, B. and **S. Saul. 2018. Simulating fish migration trails in the Gulf of Mexico using a biased random path in continuous space. Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 5-8.

†*Lu, X., and **S. Saul. 2018. Statistical methods for spatial analysis of reef fish abundance of the Gulf of Mexico. Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 5-8.

†*Ruiz, J., and **S. Saul. 2018. Spatial distribution of coral reef species based off of habitat characteristics. Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 5-8.

***Saul, S.** 2018. Quantifying and Comparing Fisher Decision-making Strategies Before and After the Deepwater Horizon Oil Spill. Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 5-8.

***Saul, S.** 2017. An agent-based model of fisher behavior and fish population dynamics in the Gulf of Mexico - how does fisher behavior affect stock assessment? Advances in Marine Ecosystem Modelling Research, Plymouth, United Kingdom. July 2 – 6, 2017.

***Saul, S.** 2016. An agent-based model of fisher behavior and fish population dynamics in the Gulf of Mexico: how does fisher behavior affect stock assessment? International Congress on Agent Computing, George Mason University, Fairfax, Virginia, November 29-30.

***Saul, S.** 2016. An agent-based model of fisher behavior and fish population dynamics in the Gulf of Mexico: how does fisher behavior affect stock assessment? Social Simulation of Fisheries and Coastal Management, Manchester, United Kingdom, June 6-7.

***Saul, S.** 2016. The interaction of fisher behavior and fish population dynamics in the Gulf of Mexico: what can an agent-based model inform us about this relationship and its effect on stock assessment? World Fisheries Congress 2016, Busan, South Korea, May 23-27.

***Saul, S.** 2016. Reimagining fisheries management: an agent-based approach. World Fisheries Congress 2016, Busan, South Korea, May 23-27.

***Saul, S.** 2016. The interaction of fisher behavior and fish population dynamics in the Gulf of Mexico: what can an agent-based model inform us about this relationship and its effect on stock assessment? 5th National Forum on Socioeconomic Research in Coastal Systems, Center for Natural Resource Economic Policy (CNREP), New Orleans, Louisiana, 20-22 March, 2016.

***Saul, S.** 2016. Avoiding surprises: understanding the impact of the Deepwater Horizon oil spill on the decision-making behaviors of fishers and how this affects the assessment and management of commercially important fish species in the Gulf of Mexico using an agent-based model. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Tampa, Florida, February 1-4. (Poster Presentation)

Saul, S. 2014. Avoiding surprises: how simulation models can be used to better balance the benefits of ecosystem services with the risks associated with their use. 8th Cement Sustainability Initiative Forum: Conserving Natures Foundations – Biodiversity and Ecosystems, Cartagena, Colombia, September 15-17.

Saul, S. and A. Heemsoth. 2014. Evaluating education seminars and fishing habits in Tonga: a pilot study. Presentation made to the Government of the Kingdom of Tonga, Nuku'alofa, Tonga, June 24.

Saul, S and S. Purkis. 2014. Using spatial models to evaluate management scenarios and the Living Oceans Foundation mapping project. United Nations Scientific Workshop on Coral Reef Resilience in Planning and Decision-support Frameworks, Phuket, Thailand, April 29-May 1.

Saul, S and S. Purkis. 2014. Remotely sensed resilience indicators or proxies: habitat/rugosity, SST anomalies, human proximity and impact. United Nations Scientific Workshop on Coral Reef Resilience in Planning and Decision-support Frameworks, Phuket, Thailand, April 29-May 1.

Saul, S and D. Die. 2012. Modeling fishing decisions with spatially explicit agent-based models. The International Institute of Fisheries Economics and Trade Biennial Conference, Dar es Salaam, Tanzania, July 24-28.

Saul, S. 2011. An individual-based model to evaluate the effect of fisher behavior on reef fish catch per unit effort. American Fisheries Society Annual Meeting, Seattle, Washington. September 1-8.

Saul, S. 2010. Modeling the spatial distribution and ontogenetic migration of commercially important reef fish on the west Florida shelf using an individual-based model. Guest Speaker at National Marine Fisheries Service Southeast Fisheries Science Center, Panama City, Florida. December 8.

Saul, S. 2010. Individual-based model to evaluate the effect of fisher behavior on estimating a standardized catch per unit effort index of abundance. Guest Speaker at Arizona State University, Tempe, AZ. December 14.

Saul, S. 2010. Modeling the Spatial Distribution of Commercially Important Reef Fish on the West Florida Shelf. American Fisheries Society Annual Meeting, Pittsburg, Pennsylvania. September 9-16.

Saul, S. 2010. An individual-based homing model of ontogenetic migration in a coral reef fish using a biased random walk. American Fisheries Society Annual Meeting, Pittsburg, Pennsylvania. September 9-16.

Saul, S. 2010. Modeling the Spatial Distribution of Commercially Important Reef Fish on the West Florida Shelf. Joint NOAA National Stock Assessment Workshop/National Habitat Assessment Workshop. St. Petersburg, FL. May 17-20 (Poster Presentation).

Saul, S. 2010. An individual-based homing model of ontogenetic migration in a coral reef fish using a biased random walk. Annual NMFS/Seagrant Fellows Workshop. NOAA Fisheries. Seattle, WA. April 14-16.

Saul, S. 2009. Modeling Spatial Autocorrelation of Commercially Important Reef Fish on the West Florida Shelf. Annual NMFS/Seagrant Fellows Workshop. NOAA Fisheries. Woods Hole, MA. April 13-15.

Saul, S. 2008. What catch locations tell you about fish densities: Estimating spatial distribution and abundance from catch per unit of effort. Guest Speaker at National Marine Fisheries Service, Northeast Fisheries Science Center, Woods Hole, Massachusetts. August 13.

Saul, S. and D. Die. 2006. Using an agent-based, object-oriented model to test the performance of catch per unit of effort as an estimator of fish abundance in small-scale, multispecies fisheries. Gulf and Caribbean Fisheries Institute Annual Meeting 59, Belize City, Belize. November 6 –10.

Saul, S. and G. W. Ingram. 2005. A categorical approach to modeling catch at age for various sectors of the gray triggerfish (*Balistes capriscus*) fishery in the Gulf of Mexico. Gulf and Caribbean Fisheries Institute Annual Meeting 58, San Andres, Colombia. November 7 –11.

Awards:

Collegewide Researcher of the Year Award, College of Integrative Arts and Sciences, Arizona State University, Academic Year 2019-2020.

Teaching:

Ecology (ABS 370), Fall 2016, Spring and Fall 2017, Spring and Fall 2018, Spring and Fall 2019, Spring and Fall 2020, Spring and Fall 2021, Spring and Fall 2022, Spring and Fall 2023, Fall 2024, Fall 2025, Fall 2026. Approximate enrollment between 50 and 120 Students.

Special Topics (ABS 494/ABS 598/MAT 494/SEA 494/SEA 598): Fish Population Dynamics, Fall 2017, Fall 2020, Spring 2024, Spring 2025, Spring 2026. Approximate enrollment: 12-15 Students. New course I created at Arizona State University.

Special Topics (ABS 394/SEA 394): Human Rights and Environmental Management, Spring 2021 and Fall 2021, Spring and Fall 2022, Spring and Fall 2023, Spring and Fall 2024, Spring and Fall 2025, Spring and Fall 2026. Approximate enrollment: 50 Students. New course I created at Arizona State University.

Mentees Under Advisement:

Assistant Research Faculty

Dr. Katyana Vert-Pre Kirk. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (2020 – 2024)

Postdoctoral Scholars

Dr. Katyana Vert-Pre Kirk. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (2018 – 2020)

Dr. Brian Powers. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (2016 – 2019)

Dr. Ernesto Carrella. Oxford University, Oxford Martin School, Oxford, England, United Kingdom. Role: Co-Advisor. (2016 – 2022)

Dr. Jens Madsen. Oxford University, Oxford Martin School, Oxford, England, United Kingdom. Role: Co-Advisor. (2017 – 2020)

Dr. Nicolas Payette. Oxford University, Oxford Martin School, Oxford, England, United Kingdom. Role: Co-Advisor. (2017 – 2022)

Ph.D. Students
Duranta Kembaren. IPB University Department of Fisheries, Bogor, Indonesia. Role: Co-advisor. (2025 – present)

Nicole Kaiser. School of Ocean Futures, Arizona State University. Role: Co-advisor. (2025 – present)

Kayla Burgher. School of Life Sciences, Arizona State University. Role: Committee Member (2022 – present)

Rani Ekawaty. University of Tazmania, Australia. Role: Co-Advisor (2021 – 2023; 2025 – present).

Julia Phelps. School of Human Evolution & Social Change, Arizona State University. Role: Co-Advisor. (2021 – 2023)

Brooke Anderson. School of Life Sciences, Arizona State University. Role: Co-Advisor. (2021 – 2024, Graduated May 2024).

Diding Efendi. University of Bogor, Republic of Indonesia. Role: Co-Advisor (2019 – 2021, Graduated 2021).

Kyle Strongin. School of Sustainability, Tempe Campus, Arizona State University. Role: Co-Advisor. (2017 – 2021, Graduated Spring 2021)

Xuetao Lu. School of Mathematical and Statistical Sciences, Tempe Campus, Arizona State University. Role: Co-Advisor. (2017 – 2020, Graduated Fall 2020)

Elle Wibisono. Coastal Institute, University of Rhode Island. Role: External committee advisor/fisheries stock assessment mentorship (2019 – 2020, Graduated Fall 2020)

Master's Students
Marissa Escalante Cano. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (2025 – 2026)

Emily Keister. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (2019 – 2022, Graduated Spring 2022)

Megan Woodyard. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (Graduated 2019)

Jessica Ruiz. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Primary Advisor. (Graduated 2019)

Sidney Riddle. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Committee Member. (Graduated 2018)

Jessica Dwyer. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Committee Member. (Graduated 2021)

Cameron Boehme. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Committee Member. (Graduated 2019)

Undergraduate Students

Latifa Omar. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Advisor (2024). Graduated, B.S. in 2024

Mia Ennis. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Advisor (2020-2022). Graduated, B.S. in 2022.

Quiarrah Mapp. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Advisor (2020-2022). Graduated, B.S. in 2022.

Chyna Rendon. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Committee Member (2020-2021). Graduated, B.S. in 2021.

Nadia Taylor. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Advisor (2019-2020). Graduated, B.S. in 2020.

Alicia Hinterlong. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Advisor (2016-2018). Graduated, B.S. in 2018.

Carol Meza. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Honors Thesis Research Advisor (2016-2018). Graduated, B.S. in Fall 2020.

Dallin Montierth. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Research Advisor (2016-2018). Graduated, B.S. in 2018.

Christian Mader. College of Integrative Sciences and Arts, School of Applied Sciences and Arts, Arizona State University. Role: Undergraduate Research Advisor (2016-2018). Graduated, B.S. in 2018.

Service to Profession:

Appointed Voting Member, Gulf of Mexico Fisheries Management Council, Science and Statistical Committee, Tampa, Florida (2022 to Present). Role: Peer review scientific fisheries stock assessments and draft policy recommendations based on scientific research to consider implementing into law by the Gulf Council and NOAA Fisheries.

Organized special session on modelling coupled human-natural systems: Marine Socio-Ecological Systems Conference: navigating global change in the marine environment. Yokohama, Japan, 25-29 May 2024.

Guest Editor, *Fishes* special issue on coral reef fish (2023 to 2025).

Review Editor, *Frontiers in Marine Science* (2023 to Present)

Topic Editor, Journal Editorial Team, *Sustainability* (2020 to present).

Ad-hoc peer reviews: *ICES Journal of Marine Science, Journal of Environmental and Resource Economics*, the books *Seascape Ecology* and *Past, Present, and Future: Mediterranean Cold-water Corals.*

Organized special session on agent-based modeling: International Institute for Fisheries Economics and Trade Conference, Seattle Washington, July 2018.

Service to University:

Voting Committee Member – College Promotion and Tenure Committee. College of Integrative Science and Arts, Arizona State University. (September 2025 to Present)

Co-lead – Junior Faculty Mentoring Program. School of Applied Sciences and Arts, College of Integrative Science and Arts, Arizona State University. (September 2025 to Present).

Junior Faculty Mentor for Dr. Subhankar Mandal and Dr. Kelsey Lyberger. School of Applied Sciences and Arts, College of Integrative Science and Arts, Arizona State University. (September 2025 to Present).

Assist with direction and development of the new School for Ocean Futures by contributing my subject matter expertise in fisheries science during school development planning workshops and faculty meetings to help shape the course offerings and research themes (2022 to Present)

Chair – Hiring Committee for Assistant Professor Position (Academic Year 2023-2024)

Chair – Hiring Committee for Assistant Professor Position, academic year 2021-2022 (Pre-Veterinary Position)

Member – Hiring Committee for Assistant Professor Position (Spring 2019, Spring 2020, and Spring 2023

Weekly Departmental Research Colloquium Series Coordinator (2017 to 2023)

Faculty Meeting Rapporteur (Academic year 2016-2017)

Collaboration with ASU STEM Preparatory Junior High School After School Lego and Robotics Team to develop fisheries project for Statewide competition (Fall Semester 2016)

Computer Programming and Software:

R, Java, SAS, MATLAB; Stock Synthesis 3 Fisheries Modeling Platform, Information Limited Fisheries Stock Assessment Models, and other fisheries stock assessment software; ArcGIS, QGIS, eCognition, ENVI.

Language Skills:

Spanish Fluency, oral, reading, and writing; Bahasa Indonesian, beginner, oral, reading and writing.

Professional Societies:

American Fisheries Society, International Institute of Fisheries Economics and Trade

Certifications: PADI Rescue Diver, AAUS Dive Certified, Former NOAA Scientific Diver, Former NPS Scientific Blue Card Diver; FAA Private Pilots License

Student Awards: Xuetao Lu, Ph.D. Student in School of Mathematical and Statistical Sciences, 2018 Dennis Young Graduate and Early Scholar Statistics Award.

Jessica Ruiz, Master's Student, Tony Gonzales Travel Scholarship to attend the AGIC Geospatial Education and Training.

Xuetao Lu, Ph.D. Student in School of Mathematical and Statistical Sciences, Travel Scholarship to attend the 2018 Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 5-8.

Jessica Ruiz, Master's Student, Travel Scholarship to attend the 2018 Gulf of Mexico Oil Spill and Ecosystem Science Conference. New Orleans, Louisiana, February 5-8.

Jessica Ruiz, Master's Student, 2018 Academic Year Outstanding Undergraduate Research Award, Science and Mathematics Unit, Polytechnic Campus, ASU.