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# CURRICULUM VITAE

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ERICA T. MASON  
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## EDUCATION

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- 2017-2023      Ph.D. in Marine Biology, Scripps Institution of Oceanography, UC San Diego (Advisor: Brice Semmens); *Dissertation focus: quantitative methods in fisheries ecology*
- 2004-2007      M.S. in Biology, CSU Long Beach (Advisor: Chris Lowe); *Thesis focus: rockfish barotrauma*
- 1994-2000      B.S. in Marine Biology (Zoology 2<sup>nd</sup> Major; Chemistry Minor), University Honors Program, CSU Long Beach; *Thesis focus: mercury bioaccumulation in Kelp Bass*

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## POSITIONS HELD

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- 2017-pres.      Graduate Student Researcher  
2017              Part-time Instructor  
2013-15        Senior Environmental Specialist  
2006-13        Environmental Scientist  
2006-07        USC Sea Grant Trainee  
2005            Graduate Associate  
2005            Teaching Associate  
2002-07        Marine Research Technician  
2001            Scientific Aide

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## PEER-REVIEWED PUBLICATIONS

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15. **Jarvis Mason, ET**, TV Riecke, LF Bellquist, DJ Pondella II, BX Semmens. Recruitment limitation increases susceptibility to fishing-induced collapse in a spawning aggregation fishery. *Marine Ecology Progress Series. In revision.*

14. **Jarvis Mason, ET**, L Bulkeley, WW Watson, Sawkins, AC Salazar, MT Craig, JR Hyde, AR Thompson, BX Semmens. 2022. Decoding comparable morphologies: pigmentation validated for identifying southern California *Paralabrax* larvae. *FishTaxa*, 25:9-25.

13. **Mason, ET**, AN Kellum, JA Chiu, GT Waltz, S Murray, DE Wendt, RM Starr, and BX Semmens. 2020. Long-term participation in collaborative fisheries research improves angler opinions on marine protected areas. *Peer J*, 8:e10146 DOI 10.7717/peerj.10146.

12. Walker, KM, KM Penttila, **E Jarvis-Mason**, CF Valle. 2020. Validated age and growth of Barred Sand Bass within the Southern California Bight. *California Fish and Game*, 104(4):205-215.

11. **Jarvis, ET**, HL Gliniak, and CF Valle. 2014. Effects of fishing and the environment on the long-term sustainability of the recreational saltwater bass fishery in southern California. *California Fish and Game*, 100(2):234-259.

10. **Jarvis, ET**, KA Loke-Smith, K Evans, RE Kloppe, KA Young, and CF Valle. 2014. Reproductive potential and spawning periodicity in barred sand bass (*Paralabrax nebulifer*) from the San Pedro Shelf, southern California. *California Fish and Game*, 100(2):289-309.
9. McKinzie, M, **ET Jarvis**, and CG Lowe. 2014. Fine-scale horizontal and vertical movement of barred sand bass, *Paralabrax nebulifer*, during spawning and non-spawning seasons. *Fisheries Research*, 150:66-75.
8. Lyons, K, **ET Jarvis**, S Jorgensen, K Weng, J O'Sullivan, C Winkler, and CG Lowe. 2013. The degree and result of gillnet fishery interactions with juvenile white sharks in southern California assessed by fishery-independent and -dependent methods. *Fisheries Research*, 147:370-380.
7. Lowe, CG, ME Blasius, **ET Jarvis**, TJ Mason, GD Goodmanlowe, and JB O'Sullivan. 2012. Historic fishery interactions with white sharks in the Southern California Bight. pp. 169-198 in: Domeier, M.L. (ed.), *Global perspectives on the biology and life history of the white shark*. Taylor and Francis Group, LLC., Florida.
6. **Jarvis, ET**, C Linardich, and CF Valle. 2010. Spawning-related movements of barred sand bass, *Paralabrax nebulifer*, in southern California: Interpretations from two decades of historical tag and recapture data. *Southern California Academy of Sciences Bulletin*, 109:123-143.
5. **Jarvis, ET**, HL Gliniak, O Horning, and C Linardich. 2009. The occurrence of juvenile Mexican lookdown, *Selene brevoortii* (Gill 1863), in Seal Beach, California. *California Fish and Game*, 95:188-192.
4. Lowe, CG, KM Anthony, **ET Jarvis**, LF Bellquist, and MS Love. 2009. Site fidelity of characteristic fish species at offshore petroleum platforms in the Santa Barbara Channel. *Marine and Coastal Fisheries*, 1:71-89.
3. **Jarvis, ET** and CG Lowe. 2008. The effects of barotrauma on the catch-and-release survival of southern California nearshore and shelf rockfishes (Scorpaenidae, *Sebastes* spp.). *Canadian Journal of Fisheries and Aquatic Sciences*, 65:1286–1296.
2. **Jarvis, E**, K Schiff, L Sabin, and MJ Allen. 2007. Chlorinated hydrocarbons in pelagic forage fishes and squid of the southern California Bight. *Environmental Toxicology and Chemistry*, 26:2290-2298.
1. **Jarvis, ET**, MJ Allen, and RW Smith. 2004. Southern California recreational fish catches compared to environment-species relationships and fishery-independent data, 1980-2000. *CalCOFI Reports*, 45:167-179.

## TECHNICAL & ANNUAL REPORTS

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6. Hamilton, S, R Starr, D Wendt, R Ruttenberg, J Caselle, B Semmens, L Bellquist, S Morgan, T Mulligan, J Tyburczy, S Ziegler, R Brooks, G Waltz, **E Mason**, C Honeyman, S Small, J Staton. 2021. California Collaborative Fisheries Research Program (CCFRP) – Monitoring and Evaluation of California Marine Protected Areas. CCFRP Final Report. California Sea Grant Project Number R/MPA-45, California Ocean Protection Council (OPC). 154 pp.
5. Barwick, KS, G Choi, G Daly, R Gamber, M Kibby, **E Mason**, M Mengel, H Nguyen, G Robertson, E Ruckman, K Sakamoto, D Tang, L Terriquez. 2014. OCSD 2013-2014 Marine Monitoring Annual Report. Orange County Sanitation District. Fountain Valley, CA.
4. Allen, MJ, **ET Jarvis**, V Raco-Rands, G Lyon, JA Reyes, DM Petschauer. 2008. Extent of fishing and fish consumption by fishers in Ventura and Los Angeles County watersheds in 2005. Technical Report 574. Southern California Coastal Water Research Project. Costa Mesa, CA.
3. Allen, MJ, T Mikel, D Cadien, JE Kalman, **ET Jarvis**, KC Schiff, DW Diehl, SL Moore, S Walther, G Deets, C Cash, S Watts, DJ Pondella II, V Raco-Rands, C Thomas, R Gartman, L Sabin, W Power, AK Groce, JL Armstrong. 2007. Southern California Bight 2003 Regional Monitoring Program: IV. Demersal Fishes and Megabenthic Invertebrates. Technical Report 505. Southern California Coastal Water Research Project. Costa Mesa, CA.
2. Allen, MJ, RW Smith, **ET Jarvis**, V Raco-Rands, BB Bernstein, KT Herbinson. 2004. Temporal trends in southern California coastal fish populations relative to 30-year trends in oceanic conditions. in: S.B. Weisberg, D. Elmore (eds.), Southern California Coastal Water Research Project 2003-04 Biennial Report pp. 264-285. Southern California Coastal Water Research Project. Westminster, CA.
1. Allen, MJ, AK Groce, D Diener, JS Brown, SA Steinert, G Deets, JA Noblet, SL Moore, DW Diehl, **ET Jarvis**, V Raco-Rands, C Thomas, Y Ralph, R Gartman, D Cadien, SB Weisberg, T Mikel. 2002. Southern California Bight 1998 Regional Monitoring Program: V. Demersal Fishes and Megabenthic Invertebrates. Technical Report 380. Southern California Coastal Water Research Project. Westminster, CA.

## INVITED WORKSHOP

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- 2013 Fisheries Release Mortality: Identifying, Prioritizing, and Resolving Data Gaps, NOAA Fisheries, Boston, MA

## LEADERSHIP TRAINING

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- 2014 Strategies for Communicating with Tact and Diplomacy, Cornerstone On-line Training  
2013 Leading Teams: Dealing with Conflict, Cornerstone On-line Training

## **GRADUATE STUDENT COMMITTEES**

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2020 Lyndsay R. Bauman, MAS, UC San Diego, Thesis Proposal and Defense Committee  
2018 Allison Kellum, MAS, UC San Diego, Thesis Proposal and Defense Committee  
2015 Gary N. Teesdale, MS, CSU Long Beach, Thesis Proposal and Defense Committee  
2012 Megan K. McKinzie, MS, CSU Long Beach, Thesis Proposal and Defense Committee

## **DIRECTED RESEARCH/MENTORSHIP ROLES**

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2022-23 Kelly Drummond, SIO Master of Advanced Studies (MAS) student  
2020-21 Allegra La Fer, SIO Master of Advanced Studies (MAS) student  
2019-22 Lucy Bulkeley, student lab technician, OPC-funded research, Semmens Lab  
2019-21 Connor Coscino, student field technician, CCFRP, Semmens Lab  
2019 Ryan Quaal, student lab technician, OPC-funded research, Semmens Lab  
2019 Vanessa Tang, student lab technician, OPC-funded research, Semmens Lab  
2019 Lucas Martz, student lab technician, OPC-funded research, Semmens Lab  
2019 Josie Lieber, student volunteer, CCFRP, Semmens Lab  
2019-20 Allyson Salazar Sawkins, Initiative for Maximizing Student Development (IMSD)  
Program, UC San Diego, OPC-funded research, Semmens Lab  
2018 Mary Cozy, SIO Undergraduate Research Fellow (SURF) summer intern  
2018 Joseph Molina, SIO Undergraduate Research Fellow (SURF) summer intern  
2017-20 Richard Cravey, student lab/field technician, CCFRP, Semmens Lab  
2017-18 Brittney Thi, student lab/field technician, CCFRP, Semmens Lab  
2013 Lilhac Medina, CDFW-sponsored CSU COAST summer intern  
2013 Kim Walker, CDFW-sponsored CSU COAST summer intern  
2012-13 Ricky Kloppe, CDFW scientific aide  
2012 Kelly Voss, CDFW-sponsored CSU COAST summer intern  
2011-13 Kyle Evans, CSU Long Beach summer intern, CDFW scientific aide  
2011 Austin Helget, CDFG-sponsored CSU COAST summer intern  
2010 Raymond Fellerman, CSU Long Beach fall semester intern  
2008-10 Christi Linardich, CDFG scientific aide

## **SCIENTIFIC PEER REVIEW**

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African Journal of Marine Science  
Alaska Sea Grant (research proposal)  
Bulletin of the Southern California Academy of Sciences  
Fisheries Research  
Marine Biology  
Marine and Coastal Fisheries  
North American Journal of Fisheries Management  
Transactions of the American Fisheries Society

## MEDIA COVERAGE

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*California Sea Grant*, January 2022. "Community Science for Marine Protected Areas"  
*Pacific Coast Sportfishing*, June 2021. "Tagging Program Surveys MPA's, Touts Conservation"  
*California Marine Sanctuary Foundation*, June 2021. "Good news for Calico Bass in California".  
*Phil Friedman Outdoors Radio Show*. March 2013. "The Sound Bite", saltwater edition.  
*Pacific Coast Sportfishing*, April 2012. "In search of the missing bass populations."  
Raven Radio KCAW 90.1 FM (NPR), May 2008. "New technique may save released rockfish."  
*Pacific Coast Sportfishing*, July 2007. "Deep Release Devices".  
*Pacific Coast Sportfishing*, November 2006. "Rockfish released! Here's how."  
*Sportfishing*, October 2006. "New evidence shows deepwater fish survive release."  
*The Orange County Register*, June 20, 2006. "Study looks at catch and release in rockfish."  
*Daily Breeze*, June 17, 2006. "No longer out of its depth?"  
*The Press Telegram*, June 17, 2006. "CSULB team helps rockfish."

## AWARDS, HONORS, & SCHOLARSHIPS

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2023 Sally Richardson Best Student Paper Award, Larval Fish Conference, Lisbon, Portugal, presented by the AFS Early Life History Section  
2016 Honorable Mention, NSF Graduate Research Fellowship Program  
2013 Marine Region Award for Special Contribution, CA Department of Fish and Wildlife  
2011 Marine Region Award for Special Contribution, CA Department of Fish and Game  
2008 Best Student Paper Award, 15<sup>th</sup> Western Groundfish Conference, Santa Cruz, CA  
2007 Graduate Dean's List of University Scholars and Artists, CSU Long Beach  
2007 Outstanding Thesis Award, College of Natural Sciences and Mathematics, CSU Long Beach  
2007 College of Natural Sciences and Mathematics Boeing Scholarship, CSU Long Beach  
2005 USC Sea Grant Traineeship  
2005 Southern California Academy of Sciences Graduate Research Grant  
2005 Richard B. Loomis Research Award, CSU Long Beach  
2004 SCTC Marine Biology Scholarship Foundation Graduate Award  
2000 National Dean's List, CSU Long Beach  
2000 Runner-up, CSU 14<sup>th</sup> Annual Statewide Student Research Competition, Biological and Agricultural Sciences Undergraduate Category, Cal Poly Pomona  
1998 SCTC Marine Biology Scholarship Foundation Undergraduate Award

## RELEVANT COURSEWORK/TRAINING

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Spring 2022	<b>Bycatch: Problems and Solutions</b> (SIOB 296, instructors: M. Hall and B.X. Semmens) Final project: presented “In pursuit of collaborative BRD research with California’s Ridgeback Prawn trawl fleet”.
Spring 2021	2-day Workshop, <b>Bayesian/Nimble capture/recapture modeling</b> (Univ. de Montpellier, instructors: O. Gimenez, S. Cubaynes, C. Nater, M. Quérroué, P. de Valpine)
Fall 2020	Data Analysis and <b>Modeling Techniques</b> (SIOB 296, instructor: B.X. Semmens) <ul style="list-style-type: none"> <li>- <b>Bayesian methods</b>, text: Statistical Rethinking</li> <li>- <b>Homeworks and final project implemented in RMarkdown</b></li> <li>- Final project: <b>Implemented a mixed effect generalized additive model in a Bayesian framework in R</b> to explore the <b>effect of US federal Experimental Fishing Permit (EFP) program characteristics on project success</b> (projects resulting in a management outcome).</li> </ul>
Fall 2019	Data Analysis and <b>Modeling Techniques</b> (SIOB 296, instructor: B.X. Semmens) <ul style="list-style-type: none"> <li>- <b>Bayesian population assessment</b>, text: Bayesian Population Assessment</li> <li>- <b>Homeworks and final project implemented in RMarkdown</b></li> <li>- Final project: <b>Built a multistate tag recapture model in a Bayesian framework using JAGS in R; simulated data to test model.</b></li> </ul>
Fall 2019	5-day Workshop, <b>Decision Analysis</b> (FISH 558, Univ. of Washington, instructor: A. Punte)
Spring 2019	3-day Workshop, PSAW II, NOAA SWFSC <ul style="list-style-type: none"> <li>- <b>Developing Forecasting Models for Fisheries Time Series with R</b>, Trainer: E. Holmes</li> <li>- <b>Mapping and (some) advanced spatial tools in R</b>, Trainer: K. Stierhoff</li> </ul>
Spring 2019	<b>Age-structured Stock Assessment</b> (FISH 555, Univ. of Washington, instructor: R. Hilborn) <ul style="list-style-type: none"> <li>- Attended 5-day workshop and participated remotely in 10 weeks of lectures</li> <li>- Final project: <b>Conducted a preliminary stock assessment for Barred Sand Bass using Stock Synthesis.</b></li> </ul>
Winter 2018	<b>Advanced programming in R</b> (SIOB 296, instructor: E. Archer) <ul style="list-style-type: none"> <li>- Tidyverse, GitHub, Git repositories, R package development, R Markdown</li> <li>- Final project: <b>Developed R package</b>, Visualization of West Coast Groundfish Catches. The package provides three functions for visualizing recreational catch trends by species and year.</li> </ul>
Fall 2018	<b>Numerical Computing</b> for the Natural Resources (FISH 559, Univ. of Washington, instructor: A. Punte) <ul style="list-style-type: none"> <li>- Attended 5-day workshop and participated remotely in 10 weeks of lectures</li> <li>- Final project: <b>Fit five different growth curves to contemporary saltwater bass length-at-age data for two species using Template Model Builder (TMB)</b> and I compared contemporary results to historical growth curves.</li> </ul>