

Associate Professor Russell B. Millar

Books:

Millar, R. B. 2011. Maximum likelihood estimation and inference: with examples in R, SAS and ADMB. Wiley, London. 357 p.

Publications in peer-reviewed journals:

1. Brooks, M. E., Melli, V., Savina, E., Santos, J., **Millar, R. B.**, O'Neill, F. G., Veiga-Malta, T., Krag, L. A., and Feekings, J. P. Submitted. Introducing selfisher: open source software for statistical analyses of fishing gear selectivity. Submitted to *ICES Journal of Marine Science*.
2. **Millar, R. B.** Submitted. Under revision. A simple canonical method for fitting nonlinear environmental gradients to community data. Under revision with *Ecology*.
3. **Millar, R. B.**, and Manoharan, S. In press. Repeat individualized assessment using isomorphic questions: A novel approach to increase peer discussion and learning. *International Journal of Educational Technology in Higher Education*
4. Pouladi, M., Paighambari, S. Y., **Millar, R. B.**, and Babanezhad, M. 2021. Estimation of gillnet mesh size for Narrow-barred Spanish mackerel (*Scomberomorus commerson* Lacépède, 1800) using girth measurements, Northwest Persian Gulf. *Iranian Journal of Fisheries Sciences*. 179–194. doi: 10.22092/ijfs.2021.351065.0
5. Pouladi, M., Paighambari, S. Y., Broadhurst, M. K., **Millar, R. B.**, and Eighani, M. 2021. Effects of season and mesh size on the selection of narrow-barred Spanish mackerel, *Scomberomorus commerson* in the Persian Gulf artisanal gillnet fishery. *Journal of the Marine Biological Association of the United Kingdom*. 1–5. doi.org/10.1017/S002531542000123X
6. Pouladi, M., Paighambari, S. Y., **Millar, R. B.**, and Babanezhad, M. 2020. Length-weight relationships and condition factor of five marine fish species from Bushehr Province, Persian Gulf, Iran. *Thalassas: An International Journal of Marine Sciences*. 36: 457–461. doi.org/10.1007/s41208-020-00208-w
7. Pouladi, M., Paighambari, S. Y., **Millar, R. B.**, and Babanezhad, M. 2020. Gillnet catch composition and biodiversity in Bushehr County, Persian Gulf, Iran. *Journal of Wildlife and Biodiversity*. 4: 58–69. doi: 10.22120/jwb.2020.121476.1117
8. McHugh, M. J., Broadhurst, M. K., Sterling, D. J., and **Millar, R. B.** 2020. Relative benthic disturbances of conventional and novel otter boards and ground gears. *Fisheries Science*. 86:245–254. doi.org/10.1007/s12562-019-01392-2
9. Broadhurst, M. K., and **Millar, R. B.** 2020. Effects of twine material on the marine debris and relative ghost fishing of portunid hoop (tangle) nets. *Aquaculture and Fisheries*. 5: 99–104 doi: 10.1016/j.aaf.2019.07.003
10. **Millar, R. B.**, Barros, L., Fonseca, P., Santos, P. T., and Campos, A. 2019. Further improvements in sorting grids for the crustacean trawl fishery off the Southern coast of Portugal. *Fisheries Research*. doi.org/10.1016/j.fishres.2019.105329
11. Broadhurst, M. K., and **Millar, R. B.** 2019. Mono- vs multifilament baited conical hoop (tangle) nets: Effects on portunid catches and marine debris. *Fisheries Research*. 220: doi.org/10.1016/j.fishres.2019.105356.

12. Broadhurst, M. K., Smith, T. M., **Millar, R. B.**, Hughes, B., Raoult, V., and Gaston, T. F. 2019. Cumulative selectivity benefits of increasing mesh size and using escape gaps in Australian *Portunus armatus* traps. *Fisheries Management and Ecology*. 26: 319-326. <https://doi.org/10.1111/fme.12351>.
13. Broadhurst, M. K., Domit, C., Trevizani, T. H., Raoult, V., and **Millar, R. B.** 2019. Mother-embryo isotope fractionation in the pygmy devilray *Mobula kuhlii* cf. *eregoodotenkee*. *Journal of Fish Biology*. DOI: 10.1111/jfb.14010
14. **Millar, R. B.** and Nottingham, C. D. 2019. Improved approximations for estimation of size-transition probabilities within size-structured models. *Canadian J. Fisheries and Aquatic Sciences*. 76: 1305–1313.
15. Broadhurst, M. K. and **Millar, R. B.** 2018. Relative ghost fishing of portunid traps with and without escape gaps. *Fisheries Research*. 208: 202–209.
16. Broadhurst, M. K. and **Millar, R. B.** 2018. Configuring escape gaps in recreational rectangular traps to improve size selection for eastern rock lobster, *Sagmariasus verreauxi*. *Fisheries Research*. 207: 182–186.
17. Broadhurst, M. K., **Millar, R. B.**, and Dingle, A. 2018. Minimising Nordmøre-grid bar spaces in an Australian penaeid fishery. *Marine Fisheries Review*. 80: 29–33.
18. Broadhurst, M. K., and **Millar, R. B.** 2018. Short-term mortality of trapped and discarded *Portunus armatus* following ice-slurry immersion. *Fisheries Management and Ecology*. <https://doi.org/10.1111/fme.12297>.
19. Broadhurst, M. K., **Millar, R. B.**, and Hughes, B. 2018. Utility of multiple escape gaps in Australian *Scylla serrata* traps. *Fisheries Research*. 204: 88–94.
20. Broadhurst, M. K., Sterling, D. J., and **Millar, R. B.** 2018. T45 side panels improve penaeid-trawl selection. *Fisheries Research*. 204: 8–15.
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24. Broadhurst, M. K., Butcher, P. B., and **Millar, R. B.** 2017. Escape gaps in recreational panulirid traps: Reducing catches of undersize *Sagmariasus verreauxi* while increasing fishing power for legal sizes. *Fisheries Research*. 189: 55–61.
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26. Broadhurst, M. K., Balash, C., Sterling, D. J., **Millar, R. B.**, and S. Matsubara. 2017. Effects of knot orientation on the height and drag of a penaeid trawl. *Fisheries Research*. 186: 48–54. doi: 10.1016/j.fishres.2016.08.003
27. Coleman, M. A., Ingleton, T. **Millar, R. B.**, Davies P., Jordan, A., and Kelaher, B. P. 2016. Habitat variables are poor surrogates for functional traits of fish assemblages. *Environmental Conservation*. 43: 368–375.
28. Broadhurst, M. K., **Millar, R. B.** Spach, H. L., and Colombo, N. C. 2016. Damage and mortality of juvenile seabob shrimp (*Xiphopenaeus kroyeri*) discarded in a tropical artisanal trawl fishery. *ICES Journal of Marine Science*. doi:10.1093/icesjms/fsw064

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33. Broadhurst, M. K., Sterling, D. J., and **Millar, R. B.** 2015. Modifying otter boards to reduce bottom contact: effects on catches and efficiencies of triple-rigged penaeid trawls. *Fisheries Management and Ecology*. 22: 407–418.
34. Uhlmann, S. S., Broadhurst, M. K., and **Millar, R. B.** 2015. Effects of modified handling on the physiological stress of trawled-and-discarded yellowfin bream (*Acanthopagrus australis*). *PLOS ONE*. 10(6):e0131109. doi:10.1371/journal.pone.0131109.
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