



Emilius Aalto

Basic Life Science Research Scientist

Oceans

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Oceans

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California, Davis , Ecology (2013)
- Master of Arts, Stony Brook University , Ecology (2005)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My primary research interest is theoretical fisheries ecology, with a focus on population dynamics, spatial dynamics, and response to disease and catastrophic events. My current work involves the incorporation of the effects of ocean acidification and low-oxygen events into an abalone growth and reproduction model. Past projects include modeling indirect positive effects from fishing-induced competitive release and the effects of size-specific obligate predation on post-harvest recovery time.

Publications

PUBLICATIONS

- **Tagging of Atlantic bluefin tuna off Ireland reveals use of distinct oceanographic hotspots** *PROGRESS IN OCEANOGRAPHY*
Pagniello, C. S., Maoileidigh, N., Maxwell, H., Castleton, M. R., Aalto, E. A., Dale, J. J., Schallert, R. J., Stokesbury, M. J. W., Cosgrove, R., Dedman, S., Drumm, A., Neill, R., Block, et al
2023; 219
- **Assignment of tracks from tagged Atlantic bluefin tuna *Thunnus thynnus* to potential stocks using behavioural differences and habitat partitioning** *FRONTIERS IN MARINE SCIENCE*
Dedman, S., Aalto, E. A., Stokesbury, M. J. W., Schallert, R. J., Castleton, M. R., Block, B. A.
2023; 10
- **Evidence of bluefin tuna (*Thunnus thynnus*) spawning in the Slope Sea region of the Northwest Atlantic from electronic tags** *ICES JOURNAL OF MARINE SCIENCE*
Aalto, E. A., Dedman, S., Stokesbury, M. J. W., Schallert, R. J., Castleton, M., Block, B. A.
2023
- **Stock-of-origin catch estimation of Atlantic bluefin tuna (*Thunnus thynnus*) based on observed spatial distributions** *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*
Aalto, E. A., Ferretti, F., Lauretta, M., Walter, J. F., Stokesbury, M. J. W., Schallert, R. J., Block, B. A.
2021; 78 (8): 1193-1204

- **The IAG gene in the invasive crayfish *Procambarus clarkii* - towards sex manipulations for biocontrol and aquaculture** *MANAGEMENT OF BIOLOGICAL INVASIONS*
Savaya, A., De Leo, G., Aalto, E., Levy, T., Rosen, O., Manor, R., Aflalo, E. D., Tricarico, E., Sagi, A.
2020; 11 (2): 237–58
- **Catastrophic Mortality, Allee Effects, and Marine Protected Areas** *AMERICAN NATURALIST*
Aalto, E. A., Micheli, F., Boch, C. A., Montes, J., Woodson, C., De Leo, G. A.
2019; 193 (3): 391–408
- **Post-harvest recovery dynamics depend on predator specialization in size-selective fisheries** *MARINE ECOLOGY PROGRESS SERIES*
Aalto, E. A., Baskett, M. L.
2017; 564: 127-143
- **Quantifying 60 years of declining European eel (*Anguilla anguilla* L., 1758) fishery yields in Mediterranean coastal lagoons** *ICES JOURNAL OF MARINE SCIENCE*
Aalto, E., Capoccioni, F., Mas, J. T., Schiavina, M., Leone, C., De Leo, G., Ciccotti, E.
2016; 73 (1): 101-110
- **Separating recruitment and mortality time lags for a delay-difference production model** *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*
Aalto, E. A., Dick, E. J., MacCall, A. D.
2015; 72 (2): 161-165
- **Quantifying the balance between bycatch and predator or competitor release for nontarget species** *ECOLOGICAL APPLICATIONS*
Aalto, E. A., Baskett, M. L.
2013; 23 (5): 972-983