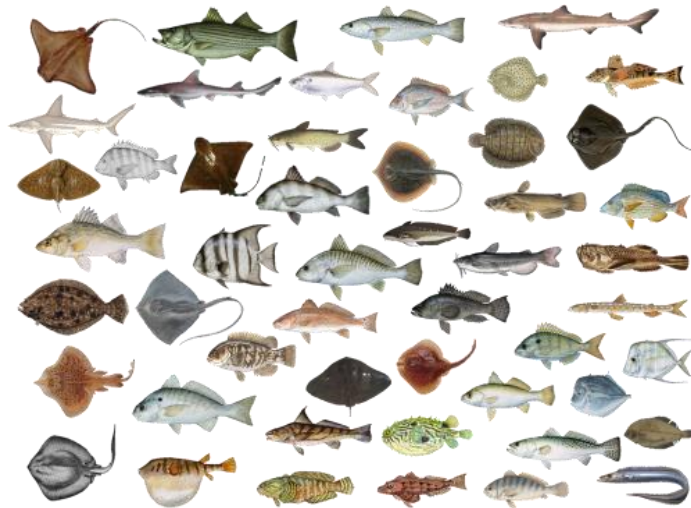


Department of Mathematics

Fall 2016 Colloquium Series



“Statistical and ecosystem modeling in support of ecosystem approaches to fisheries management”

Professor Andre Buchheister,
Humboldt State University

Thursday, September 15, 2016

Behavioral and Social Sciences Building Room 166, 4 pm

Ecological processes in coastal ecosystems require thoughtful investigation if we are to understand, conserve, and sustainably manage our valuable aquatic resources. Statistical, population, and ecosystem models are increasingly important tools for studying and simulating the dynamics in these systems. This talk highlights three applications of statistical and quantitative models used to inform a more holistic, “ecosystem-approach” to fisheries management that moves beyond a traditional “single-species” approach. We first look at generalized additive models (GAMs), then multivariate methods, and finally a full ecosystem model.

Andre Buchheister’s research interests focus on quantitative fisheries ecology, including ecosystem based fisheries management, structure and drivers of fish communities, predator-prey interactions, and population dynamics. Andre is a new assistant professor at HSU. He completed a post-doctoral position at the University of Maryland Center for Environmental Science after obtaining his M.S. and Ph.D. at the College of William and Mary in Virginia. He previously worked for the National Marine Fisheries Service in Seattle, Washington.

For a complete abstract, go to <http://www.humboldt.edu/math/news-and-events/math-colloquium>

We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS

building at 3:30 pm on Thursday.