

FELIPE HURTADO-FERRO, MSc, PhDc

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EDUCATION

Ph.Dc. in Aquatic and Fishery Sciences (2010-2017) (currently on leave) University of Washington, Seattle WA, USA

M.Sc. in Environmental Sciences (2007-2009) The University of Tokyo, Tokyo, Japan

B.Sc. Biology (2001-2005) Universidad Nacional de Colombia, Bogotá, Colombia

KEY SKILLS

Statistical: Statistical inference, numerical analysis, linear and non-linear regression, statistical modeling, Bayesian modeling, and time series analysis.

Coding: Proficient with R (dplyr, data.table, tidyr, knitr, rmarkdown), Github and Excel; familiar with Python (Pandas, Numpy), SQL, Octave, Fortran, ADMB.

Communication: Expertise in visual communication (ggplot2, corrplot, lattice, Tableau). Strong verbal and written communication. A list of peer reviewed articles, technical reports and presentations is available at: <https://github.com/fhurtadof/Publications>

RELEVANT COURSEWORK

PhD level: Numerical analysis; Bayesian statistics for decision making; Time series analysis; Parameter estimation; Statistical inference; Generalized linear models; Mathematical probability (intro, 1 & 2); R (basic, advanced and super-advanced); Beautiful graphics in R.

MSc level: Environmental economics; Environmental business.

BSc level: Intro to statistics; Experimental design.

EXPERIENCE

As PhD student at the University of Washington:

Lead Analyst for the project: “Pacific sardine management strategy evaluation”. Pacific Fishery Management Council. Portland, OR, USA. 2013 (Jan) – 2014 (Mar). Tasks involved creating, parameterizing and programming of population models for Pacific sardine, analyzing data from model output, creating visualizations of these analyses, producing technical reports for policy makers to aid in decision making, and providing technical support for federal and state authorities and policy makers. This project also involved extensive input from multiple stakeholders including industry, NGOs, and local and Native governments, thus a key part of my responsibilities was to translate the needs of these stakeholders into technical inputs, and later translate back technical outputs for a non-technical audience.

Analyst for the project: “Review and update of harvest strategy settings for the Commonwealth Small Pelagic Fishery”. CSIRO. Hobart, Australia. 2014 (Jan) – 2014 (Aug). Tasks involved creating, parameterizing and programming of population models for four Australian small pelagic fish species, analyzing data from model output, creating visualizations of these analyses, and producing a technical report for policy makers to aid in decision making.

Analyst for the project: “Stock assessment update for Petrale Sole and US Sablefish resources in 2014”. Seattle, WA. 2015 (Jan) – 2015 (Jul). Tasks involved extracting and analyzing multiple sources of fisheries data, constructing statistical models for the analysis, creating visualizations for model output, producing a technical report, and presenting the results to policy makers.

As independent consultant:

Data Analyst for OCEANA. Santiago, Chile. 2014 (Jul) – 2014 (Sep). Tasks involved creating and programming of a preliminary statistical model for evaluating management strategies for Chilean hake, and providing technical support for policy staff at OCEANA.

Data Analyst for OCEANA. Monterrey, CA, USA. 2012 (Jul) – 2012 (Sep). Tasks involved translating and updating an old population model used for fisheries management of Pacific sardine from SAS to R, producing data visualizations for model output, and providing technical support to policy staff at OCEANA.