NICHOLAS R. GRUNLOH

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EDUCATION

Ph.D. Statistics & Applied Mathematics

Sept. 2018 - present

Sept. 2012 - Aug. 2014

STATISTICS IN SOCIOLOGY

University of California at Santa Cruz

M.S. STATISTICS & APPLIED MATHEMATICS UNIVERSITY OF CALIFORNIA AT SANTA CRUZ

Aug. 2014

B.S. MARINE BIOLOGY/MINOR STATISTICS, Cum Laude

University of California at Santa Cruz

June 2012

EXPERIENCE

Statistician Oct. 2014 - present

NOAA, National Marine Fisheries Service

- Bayesian Hierarchical GLMs for Sparse-Data Stock Assessments (assessment)
- Parallel Programming for Model Exploration and Bayesian Model Averaging (ssc, talk)
- HPC Cluster Design (grant)

Thesis Research

Sept. 2011 - Aug. 2014

UCSC, Applied Mathematics & Statistics

- Process Control and Moving Average Models for Monitoring Optimization Progress (paper)
- Stochastic Dynamic Programming for the Study of Adaptive Play Behavior (paper)

Lab Work

UCSC, Zehr Lab

• Marine Microbial DNA Extraction/Quantification and PCR

UCD, Zalom Lab
Summer '10

• Agricultural Sampling of Lygus and Thrips Populations for Safe Pesticide Development

PROGRAMMING LANGUAGES/TECHNOLOGIES

Python 5+ years	R 5+ years	C++ 3 years	OPENMP 2 year	MPI 1 year
SQL 3 years	Unix 5+ years	TensorFlow 1 year	Stan 1 year	HTML as needed

TEACHING

Instructor Fall '14 - Spring '17

PROBABILITY OF GAMES
UC SANTA CRUZ
CABRILLO COLLEGE
Mathematics

Genetics

TEACHING ASSISTANT

BIOSTATISTICS

UC Santa Cruz

Applied Mathematics & Statistics Molecular, Cell & Dev. Biology Sociology

COMPUTATIONAL METHODS MICROBIOLOGY LAB STATISTICS

 $Applied \ \textit{Mathematics} \ \textit{\& Statistics} \qquad \qquad \textit{Microbio} \ \textit{\& Envir.} \ \textit{Toxicology} \qquad \qquad \textit{Applied Mathematics} \ \textit{\& Statistics}$