A. John Woodill

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Summary

Trained economist with experience in transforming, visualizing, and modeling data to communicate economic research results. Adaptive learner with strong analytic and technical abilities able to communicate results effectively. Willing to take on new situations and tasks independently or as a team member.

Technical Skills

- Economic research background
- Statistical/mathematical methods
  - Non/Semi/Parametric Analysis, Machine/Deep Learning, Bayesian, Dynamic Programming and Stochastic methods

- Code: R (6 yrs), Python (6 yrs), SQL (1 yr), SAS, Stata, Matlab
- Docker, Shiny
- Parallel/Cloud computing: AWS; Google (6 yrs)
- Collaboration using git, Dropbox, Google Docs

Experience

University of Hawaii at Manoa Honolulu, HI
Independent Research Project Summer 2016

- Interpolate fine-scale weather data for 460,000 grid stations throughout the US from 1900-2013 to estimate heat accumulation parameters – degree days and time in each degree.
- Using a relative-anomaly spline interpolation technique, daily individual grids were estimated using parallel processing on an 8-core (32 thread) processor with 252GB of RAM – final data set size 184GB.

University of Hawaii at Manoa Honolulu, HI
Research Assistant Jan 2014 – Current

- Research, design, and implement statistical/mathematical models to estimate the impact of an invasive species to Hawaiian coffee, the coffee berry borer.
- Collaborate closely with economic research team and coffee farmers to estimate the economic damage to production using a time-inhomogenous Markov chain process from data collected in the field.
- Developed a Shiny web interface for researchers and farmers to test a dynamic programming decision model under various environmental conditions and farm-level knowledge.

SDSU Social Science Research Laboratory San Diego, CA
Research Assistant 2012

- Collect, aggregate, transform, and interpret survey data from university to provide feedback and results on various projects for the administration.
- Collaborate with local business partners to present and provide product reports from customer data collected through surveys.
- Work with research team to collaborate on new project ideas and outreach to community to collect interesting data for analysis, such as YMCA Summer Camps, Dean reviews, and demographic surveys.

Education

University of Hawaii at Manoa Honolulu, HI
Ph.D. Economics 2013 – Current

University of Hawaii at Manoa Honolulu, HI
M.A. Economics 2013 – 2015

San Diego State University San Diego, CA
B.A. Economics – Quantitative Analysis 2010 – 2013
Summa Cum Laude