APRIL J. HARRY

STATISTICAL DATA SCIENTIST

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SKILLS

LANGUAGES: R (advanced), C, Python, SQL

TOOLS: SAS, SPSS, Flask, AWS, Google APIs

DATA ANALYSIS: Statistics, Spatial data, Machine Learning

EXPERIENCE

2018 — INSIGHT DATA SCIENCE FELLOW
- Implemented sponView, a Python-based Support Vector Machine classification algorithm for identifying sponsored content in YouTube videos based on captions.
- Pulled >1,000 video captions from YouTube's API, stored them in a SQL database
- Deployed algorithm through a Google Chrome extension and web app powered by Flask, hosted on Amazon Web Services.

2016–2018 — RESEARCH TECHNICIAN, NORTHEASTERN UNIVERSITY
- Refined R implementation of model estimation algorithm, improving efficiency >10-fold and expanding applicability to more general experimental designs.
- Developed an R package (msiCompare).
- Submitted 1st-authored manuscript to a peer-reviewed journal.

2015-2016 — GRADUATE RESEARCH ASSISTANT, PURDUE UNIVERSITY
- Developed a Bayesian statistical modeling and testing framework for molecular imaging data, in order to identify differences in the composition of biological tissues.
- Prototyped a Markov Chain Monte Carlo estimation algorithm for the model in R.
- Simulated >50,000 images for model evaluation, concluding that the contributed model showed improved sensitivity and specificity over existing methods.
- Co-maintained the R package Cardinal, winner of the 2015 John C. Chambers statistical software award from the American Statistical Association.
- Presented 2 conference talks and contributed to 2 peer reviewed publications.

2015 — GRADUATE TEACHING ASSISTANT, PURDUE UNIVERSITY
- Instructed ~60 students on data analysis in the SPSS statistical computing software.

2013 — SUMMER INTERN, IBM RESEARCH ALMADEN
- Evaluated the performance of a statistical method for predicting the sources of food-borne illness epidemics, based on spatially-registered shopping data.
- Contributed to 1 peer-reviewed publication.

EDUCATION

2012-2017 — PHD IN STATISTICS, Purdue University, West Lafayette, IN

2010-2012 — MS IN APPLIED STATISTICS, Purdue University, West Lafayette, IN

2006-2010 — BS IN MATHEMATICS, Xavier University of Louisiana, New Orleans, LA