Patrick Stuchlik, PhD

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Epidemiologist seeking a new data science position to leverage deep statistical and public health background knowledge with a desire to apply cutting-edge analytics technology and uncover new insights.

TECHNICAL SKILLS

Programming and Statistical Packages: Python (scikit-learn machine learning algorithms, pyspark/spark, numpy, scipy, pandas, matplotlib, bokeh, nlp/spacy, tensorflow), R, SAS, SQL, Git
Visualization: Tableau, Excel, R, Python, SAS
Statistical Knowledge: supervised and unsupervised machine learning, categorical data analysis and logistic regression, time series, survival analysis, generalized linear models and probability

EXPERIENCE

The Data Incubator Fellowship – San Francisco April 2019 – June 2019

- Completed data science fellowship with weekly mini projects covering distributed computing, unstructured data sources, natural language processing, machine learning pipelines, SQL, and visualization
- Developed cross-validated SVM machine learning model, integrating varied public data sets according to evidence-based best practices, predicting life expectancy by census tract in my hometown of St. Louis, MO, and communicated results in weekly video presentations and an interactive choropleth for final project

Postdoctoral Research Fellow, UC – San Francisco August 2018 – February 2019

- Investigated the longitudinal association of cardiovascular disease risk factors, especially atrial fibrillation, and subsequent cognitive decline in Veterans Health Administration electronic medical records (EMR)
- Mentored a team of four to the production of analyses and abstract submission for novel project on time-weighted averages of cardiovascular predictors of dementia in observational study participants
- Prepared literature reviews and data visualizations for two research teams in Excel and PowerPoint

Research and Teaching Assistant, Tulane University June 2014 – August 2018

- Cleaned and analyzed 1 GB of cohort data in SAS to create a novel latent class estimate of the lifetime association of childhood and early adulthood cardiometabolic risk profile for mid-life cognitive function
- Developed and analyzed over 200 MB of publicly available NHANES survey data in SAS to measure secular trends in the association of diabetes and glucose regulation with cognitive function
- Designed and programmed a Monte Carlo simulation in SAS to empirically test error rates of untested statistical methods; presented at ASA's Joint Statistical Meeting

EDUCATION

Tulane University – PhD, Epidemiology August 2018

- Dissertation Title: *Childhood and Young Adulthood Predictors of Cognitive Function in Middle Age*
- Awarded department's Dorothy R. LeBlanc Memorial Scholarship for achievement in research

University of New Orleans – MS, Mathematics and Statistics May 2014
Grinnell College – BA, Russian Language and Literature May 2011

PRESENTATIONS

"Life Course Glycemic Control and Cognitive Function in Middle Age" February 2018

- Global Conference on Health, Panama City, Panama

VOLUNTEERING

VIA LINK December 2012 – August 2015

- Built user-friendly database for nonprofit to analyze call data from their United Way-supported 211 telephone helpline, and developed guide for non-technical staff to utilize the database
- Excel database generated reports for board meetings on 100+ MB files containing 50,000 calls per quarter with data in over 100 categories (still used as of 2018)