ALEKS TARANOV

Data Scientist

📱 (415) 910 7159

🌐 twitter.com/alekslovesdata

✉ ataranov@usfca.edu
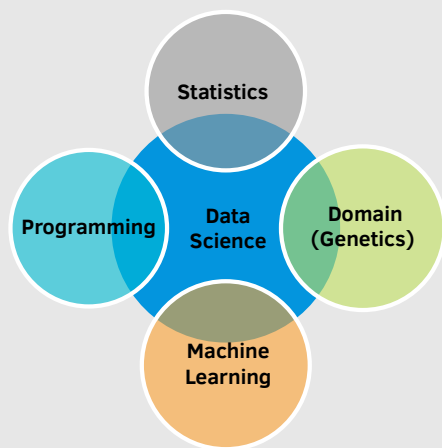
in /in/alekslovesdata

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Technical Skills

Overview

Programming

$Low \longrightarrow High$

R • C++ • Python

Octave • MATLAB • LaTeX

Alteryx • KNIME • SQL

Education

MSc., Statistical Genetics
Department: IAD
University of California, Davis
2017 - 2019 | Davis, CA

BA, Environmental Studies
Department: Anthropology
Princeton University
2011 - 2015 | Princeton, NJ

EXPERIENCE

Mar 2019 - current — **Adjunct Professor of Data Science** — University of San Francisco
- Teaches course on data visualization in python to 80 masters students in the MSDS data science program
- Developed curriculum focusing on interactive visualization using python packages such as plotly, bokeh, and altair.

Sep 2018 - Dec 2018 — **Biostatistician** — Bayer Cropscience
- Developed machine vision approach to do image processing and classification on outputs of caterpillar images from microplate photometers
- Trained data science team on how to make an R package in order to build a new protocol for sharing R functions
- Wrote internal R package shared on BRAN for accessing and processing field trial data from external database SCOUT
- Explored statistical methods for MIC analysis and LD50 so that bench scientists could analyze their dose curve response data

Sep 2018 - Mar 2019 — **Graduate Researcher** — Runcie Lab, UC Davis
- Wrote masters thesis reviewing machine learning applications for plant breeding under the supervision of Dr. Runcie.
- Ran R scripts on a computer cluster with SLURM in order to test the effectiveness of a new machine learning approach against standard BLUP approaches
- Analyzed output from these scripts and compared to outputs from genomic selection scripts written by CIMMYT researchers

Feb 2018 - Jul 2018 — **Research Intern: Software Engineer** — CIMMYT
- In a team of 2, raised $6,263 in funding from The Tech for Social Good Competition and RIFA to develop an R package at CIMMYT
- Worked in the Biometrics and Statistics Unit to convert the R code in the ISQG package to C++ for increased efficiency
- Helped plant breeders across divisions improve their profiency in R

Sep 2017 - Jun 2018 — **Graduate Researcher** — Dr. Fushing, UC Davis
- Created R package that uses a clustering algorithm to create possibly gapped histograms
- Also worked on developing an ANOHT or Analysis of Histogram Analysis as a potential alternative to ANOVA analysis
- Part of larger project to develop new machine learning methodologies as alternatives to standard statistical methods, for histograms, time series analysis, etc.

TEACHING

Jun 2018 - Present — **Certified Instructor** — Data Carpentry, Software Carpentry
- Taught workshops on dplyr and tidyr at the 2-day Data Carpentry Workshop at UC Davis in June 2018
- 2-day Data Carpentry training at Genentech Aug 27-28, 2018
- Taught 2-day Data Carpentry training at UC Davis Jan 3-4, 2019

Sep 2018 - Present — **Teaching Assistant** — UC Davis
- Graduate level statistics course PLS 205 Experimental Design
- Graduate level seminar IAD290 on project management
- Undergraduate course PLS100 CL Environmental Interactions