

# ALLYSSA L. KILANOWSKI, Ph.D.

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## EXPERIENCE

### OFFICE OF DATA ANALYTICS IN KENTUCKY CABINET FOR HEALTH AND FAMILY SERVICES DATABASE ANALYST FEBRUARY 2024 – PRESENT

- Conduct research for Department of Medicaid Services using Medicaid claims database
- Perform duties of in-house consulting firm for Cabinet departments by translating client research requests into data analysis plan, obtaining/cleaning/managing data, performing analyses, reporting results to client via presentation or report in non-technical language
- Combine multiple datasets (public and private) to meet client needs
- Create analysis code that is reproducible and annotated, including technical documentation
- Review statistical code, technical documentation, non-technical reports, and non-technical presentations for quality, completeness, and adherence to team standards

### UNIVERSITY OF KENTUCKY

DOCTORAL CANDIDATE FELLOW JUNE 2020 – JUNE 2023

GRADUATE TEACHING ASSISTANT AUGUST 2015 – MAY 2020

- Obtained \$204,000 funding across 5 grants out of 10 applications – \$180,000 from USDA Pre-doctoral Fellowship that required a grant application including a proposed budget/justification and logic model, annual progress reports, and a final report
- Developed Gantt chart for a 3-year project, and weekly/monthly project goals
- Translated USDA fellowship proposed research study protocol and statistical analysis plan into executable analytical code
- Facilitated communication between a multi-functional team of collaborators that had language specific to their expertise
- Trained and managed a rotating team of 3-6 undergraduates and lab technicians
- Designed, tested, revised, and launched a hands-on simulation to demonstrate how selection leads to evolution for an undergraduate course in collaboration with supervisors
- Created Excel file for real-time data entry and graph production for classroom discussion

## SCIENTIFIC COMMUNICATION

- Authored 7 publications, including one in *Ecological Applications*
- Invited speaker for a symposium at the Entomological Society of America national conference
- Gave 8 talks and 9 poster presentations at international, national, and regional conferences
- Served as peer reviewer for 4 manuscripts in 3 scientific journals
- Authored 5 reports for a non-technical client
- Created 3 presentations for Commissioner of Department of Medicaid Services that were shown to the Kentucky Legislature

## LEADERSHIP

### DEVELOPING STANDARDS FOR DATA VISUALIZATIONS AND REPORTS

- Initiated and led development of ADA compliant data visualization standards, Tableau dashboard templates, and report templates
- Created an instruction manual to install custom ADA compliant color palettes in Tableau
- Developed quality control documents for reviewers to ensure all ADA standards are met before release of product to client

### MENTORING

- Guided colleague over course of 3 months through first SQL data pull request for a client
- Coached colleague on their first conference presentation, including developing story and visuals, provided advice on public speaking
- Mentored 15 undergraduate students (2016-2022) in data collection/management, data analysis in R, and written/oral scientific communication, which culminated in 9 poster and 3 oral presentations, some of which were given at regional and national conferences
- Advised graduate student peers on statistical analyses for their experimental design

## EDUCATION

University of Kentucky  
Ph.D. Biology 2023  
*Professional Certification:*  
Applied Statistics 2017

University of Arizona  
M.Sc. Natural Resources:  
Wildlife Conservation and  
Management 2015

St. Lawrence University  
B.Sc. Conservation  
Biology, Minor in  
Mathematics 2010

## KEY SKILLS

- Proficient in R, SQL, Excel, Word, PowerPoint, Adobe
- Experience with Tableau, Access, MATLAB, SAS, ArcGIS, Raven, Netlogo
- ADA compliant data visualization
- Collaboration across disciplines
- Presenting scientific results to non-technical clients
- Project management
- Grant writing

## STATISTICAL SKILLS

- Linear and logistic regression
- Model fit assessment
- ANOVA
- Post-hoc tests (e.g., Tukey's and LSD)
- Adjustments for multiple testing (e.g., Bonferroni)
- Mixed modeling
- Principal component analysis
- Bootstrapping/re-sampling
- Propensity score matching