Luke Durell, M.S.

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Education

Baylor University, *Waco, TX*
Ph.D., Statistics   (expected) **2022**
    Awards: Presidential Fellowship (top 1-2% of applicants), TeaCHE program
M.S., Statistics: GPA 3.96   **2019**

Wittenberg University, *Springfield, OH*
B.A, Mathematics; B.A. Financial Economics: GPA 3.70   **2018**
    Awards: *cum laude*, University Honors Student, Phi Beta Kappa

Technical Skills

Languages & Applications
  ** *designates proficiency*

R** | SAS** | Stan | Python | JMP | JAGS | LaTeX** | MS Office** | Git

Relevant Coursework

Regression Analysis	Computational Stat. I/II	Linear Models	Statistical Methods
Spatial Analysis	Large Sample Theory	Time Series	Theory of Stat. I/II/III
Multivariate Analysis	Bayesian Stat. I/II	Categorical Analysis	High Dim. Analysis

Professional Experience

Graduate Research Assistant   **2019 - Present**
Baylor University, Waco, TX & Remote
- Collaborated with a wide range of professionals to identify research goals and challenges
- Reviewed statistical literature, developed project-specific models, and interpreted results
- Communicated findings to various stakeholders in presentations, publications, and weekly reports
- Designed and Implemented a yearly R "bootcamp" for undergraduate researchers
- Managed projects between city & university stakeholders and undergraduate research teams
  → (In total, 3 teams and 29 students)

Instructor, Elementary Statistics   **2019**
Baylor University, Waco, TX
- Independently instructed 19 undergraduate students in Elementary Statistics
- Developed tests, examples, and materials to supplement established curriculum

Graduate Teaching Assistant   **2018 - 2019**
Baylor University, Waco, TX
- Proctored, graded & organized hundreds of exams, & otherwise assisted multiple professors
- Personally tutored over one hundred undergraduate students in statistical concepts

Bioinformatics Analyst   **2017 - 2018**
Henry M. Jackson Foundation, Wright Patterson Air Force Base, Dayton, OH
- Analysed over 650,000 viral nucleotide structures from over 5,000 viruses
- Found significant genomic sequences of biological relevance
- Provided statistical support to multiple research efforts in the 711th Human Performance Wing

Exploratory Meds/Advanced Analytics Intern   **2016**
Eli Lilly & Company, Indianapolis, IN
- Prepared applications for use in large clinical trials; debugged prototypes by delivery deadlines
- Organized hundreds of nonstandard clinical trial data sets for migration weeks before deadline

Publications & Presentations

Durell, L., Scott, J. T., Nychka, D., Hering, A.S. "Functional Forecasting of Dissolved Oxygen Lake Profiles,"
    (In Preparation)

Hering, A. S., **Durell, L.**, and Morgan, G. (2021) "Illustrating Randomness in Statistics Courses with Spatial Experiments,"
    The American Statistician, Accepted. `https://doi.org/10.1080/00031305.2020.1871070`

Durell, L. and Hering, A. S. (2021) "`mowateR`: Data Sets from the Modernizing Water and Wastewater Treatment through
    Data Science Education and Research Team," R package version 1.0.0. `github.com/lukedurell/mowateR_pkg`

Baylor Graduate Student Twitter Conference: *Functional Forecasting of Dissolved Oxygen Lake Profiles*, Presented Remotely,
    (Feb 2021)

TIES 2020 Virtual Conference: *Functional Forecasting of Dissolved Oxygen Lake Profiles*, Presented Remotely, (Nov 2020)