

ALEXANDER C. MURPH

Permanent Address: 216 Ridge Trail ◦ Chapel Hill, NC 27516
acmurph@live.unc.edu ◦ (412) · 996 · 1945

EDUCATION

University of NC at Chapel Hill

August 2018 - Present

Second year

Chapel Hill, NC

Statistics & Operations Research (STOR) Ph.D. candidate; Faculty Advisor: Jan Hannig

Bucknell University

August 2014 - May 2018

Class of 2018

Lewisburg, PA

B.S. in Mathematics, B.A. in Computer Science, Minor in Women's & Gender Studies, *magna cum laude*

PUBLICATIONS

A. Murph, A. Flynt, and B. K. King. *Comparing Finite Sequences of Discrete States with Non-Uniform Time Intervals*. Currently under review at *ACM Transactions on Algorithms*

E. Faden, A. Mitchell, A. Murph, and N. Ryan. *Mr. Hulot's Invisible Gorilla: Jacques Tati and Inattentional Blindness*. Currently under review at *Projections*.

EXPERIENCE

UNC Graduate School

August 2019 - Present

Research Assistant

Chapel Hill, NC

- Developing novel fiducial approaches to classical inferential problems, and illustrating the usefulness in context to current methods.
- Exploring recent work on admissibility of models used to enhance, and even replace, ubiquitous sparsity assumptions. Actively researching how to use EAS methodology for model selection with Gaussian Graphical Models.

UNC STOR Department

August 2018 - Present

Instructional Assistant

Chapel Hill, NC

- Holds office hours and tutorial sessions to address student questions.
- Grades homework and writes detailed solutions; proctors exams and addresses all student concerns.
- Current experience is with Introductory Statistics (undergraduate), Time Series & Forecasting (graduate), and Machine Learning (graduate) courses.

Bucknell Geisinger Research Initiative

June 2016 - May 2018

BGRI Research Apprentice

Lewisburg, PA

- Creatively used Math & Computer Science expertise to develop predictive models with real world data.
- Showed initiative and resourcefulness in conducting individual research to solve problems obstructing progression of projects.
- Responsibly handled sensitive patient data; showed respect for the privacy of study participants.

EXTRACURRICULAR WORK

AYA Cancer Committee for the UNC Cancer Center

August 2019 - Present

Lead Organizer

Chapel Hill, NC

- Organizes a group of fellow Adolescent and Young Adult (AYA) cancer patients in the Triangle area to advise recent efforts for specialized AYA care in the UNC Cancer Center.

Bucknell Diversity Outreach Team

November 2015 - May 2018

Member

Lewisburg, PA

- Actively participated in efforts at Bucknell to make community more diverse.

TECHNICAL SKILLS AND ACHIEVEMENTS

Computer Skills - Advanced

Python, R, Java, C, \LaTeX , Microsoft Office

Achievements/Awards

Eagle Scout, Phi Beta Kappa, Pi Mu Epsilon Mathematics Award

GitHub Portfolio

@sirmurphalot