

Ty Darnell

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EDUCATION

MS Biostatistics (May 2020)

University of North Carolina at Chapel Hill (2018-2020)

Relevant Coursework: Statistical Inference, Data Science, Linear Models, Longitudinal Analysis, Categorical Analysis, Survival Analysis, Statistical Consulting, Regulatory Science, Epidemiology

Thesis: *GeneticMediation: An R Package for Causal Mediation Analysis of ROSMAP Data*

- Conducted causal mediation analysis and identified pathways of SNP, gene, and ChIP-seq peak effects on Alzheimer's Disease
- Developed and documented an R package to clean, process, and analyze the data
- Built the documentation website <https://tydarnell.github.io/GeneticMediation>

Advisor: Dr. Di Wu, Assistant Professor, Department of Biostatistics

BS Middle Grades Education: Mathematics and Social Studies

Appalachian State University, Boone, NC (2009-2013)

WORK EXPERIENCE

Mathematics Teacher, Department Chair

Horton Middle School, Chatham County Schools, Pittsboro, NC (2013-2018)

- Led mathematics department meetings and facilitated small group discussions
- Collaborated with a team of teachers to ensure student success
- Created curriculum that used real world applications of algebra
- Helped students gain basic financial literacy
- Used data to drive instruction and identify students in need of remediation and enrichment
- Created after-school tutoring program to help struggling students two days a week
- Initiated a running club to promote wellness and encourage students to build relationships with each other outside the classroom

Assistant Director of Youth Camp

UNC-CH Faculty-Staff Recreation Association Summer Camp (2007-2012)

- Directed camp activities and organized group activities for 30-40 children, ages 9-12
- Established and maintained time schedules for activities

TECHNICAL SKILLS

R, SAS, Python, Bash, LaTeX, Markdown, Git, GitHub, Adobe Creative Cloud