

Ty Darnell

9101 Trout Lilly Lane, Chapel Hill, NC 27516
tydarnell@gmail.com • 919.265.3212

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)

- 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
- Co-led chess club

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

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|----------|------------|------------|
| • R | • Bash | • Git |
| • SAS | • LaTeX | • GitHub |
| • Python | • Markdown | • Adobe CC |