

## **Ty Darnell**

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919.265.3212

### **EDUCATION**

#### **University of North Carolina at Chapel Hill (May 2020)**

MS Biostatistics

**Master's Thesis:** Constructing Mediation Pathways for Multi-Level Genomic Data (April 2020)

Conducted mediation analysis and identified causal pathways of SNP, gene and methylations effects on Alzheimer's Disease

**Advisor:** Dr. Di Wu

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

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

BS Middle Grades Education

Concentration: Mathematics and Social Studies

### **WORK EXPERIENCE**

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

- Chair of Mathematics Department
- 6<sup>th</sup> & 7<sup>th</sup> Grade Mathematics Teacher
  - Collaborated with a team of teachers to ensure student success
  - Created curriculum that used real world applications of algebra
  - Used data to drive instruction and helped students gain basic financial literacy
  - Instructed students in need of remediation & enrichment
- Created after-school tutoring program to help struggling students two days a week
- Initiated a running club to help promote wellness and allow students to build relationships with each other outside the classroom
- Co-leader of chess club

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

- Assistant director for Youth Camp (children ages 9-12)
- Directed camp activities and organized group activities for 30-40 children
- Established and maintained time schedules for activities
- Mediated conflicts and worked separately with special needs children

### **Skills**

- **Programming:** R, SAS, Python, Bash, MATLAB
- **Tech/Tools:** LaTeX, Markdown, GitHub ([tydarnell.github.io](https://github.com/tydarnell))