John Taylor Burleson

jtburly@vt.edu

EDUCATION

Virginia Tech — Blacksburg, VA
Master of Science in Mathematics (M.S.) — *August 2021*
- Thesis Advisor: Dr. Pengtao Yue
- Thesis Title: Numerical Simulations of Viscoelastic Flows Using the Discontinuous Galerkin Method

Virginia Tech — Blacksburg, VA
Bachelor of Science in Mathematics (B.S.) — *May 2016*

TEACHING EXPERIENCE

Mathematics Instructor — August 2021 – Present
Virginia Tech Mathematics Department — *Blacksburg, VA*

Courses Taught:

- Math 1225 Calculus of a Single Variable
- Math 1226 Calculus of a Single Variable

Graduate Teaching Assistant — August 2018 – 2021
Virginia Tech Mathematics Department — *Blacksburg, VA*

Courses Taught:

- Math 1225 Calculus of a Single Variable
- Math 1226 Calculus of a Single Variable
- Math 1026 Elementary Calculus for Life Science

Mathematics Tutor — August 2012 – May 2016
Virginia Tech Language and Culture Institute - KAUST Program — *Blacksburg, VA*

Courses Tutored:

- Math 1225 Calculus of a Single Variable
- Math 1226 Calculus of a Single Variable
- Physics 2305 Foundations of Physics
- Physics 2306 Foundations of Physics

Private Mathematics Tutor — 2011 – 2018

Topics Tutored:

- SAT Preparation, GRE Preparation, Introduction to Proofs, Differential Equations, Linear Algebra, Differential Calculus, Integral Calculus, Multivariable Calculus, Applied and pre-Calculus, Trigonometry, Intermediate Algebra, Special Needs in Mathematics, Foundational Physics

TECHNICAL SKILLS

Coding Languages: C++, MATLAB, Python, Java, C#, JavaScript
Proficiencies: Excel, LaTeX, use of Canvas Learning Management Software