Jason Bane

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Education

- **University of Tennessee** — **Knoxville, TN**
  Ph.D. in Nuclear Physics — *August 2012 – Planned December 2019*
  Thesis: The EMC Effect in A=3 Nuclei — *Advisor: Nadia Fomin*
- **University of Tennessee** — **Knoxville, TN**
  Secondary Education Certification in Math and Science — *August 2009 – May 2010*
- **University of Tennessee** — **Knoxville, TN**
  Bachelor of Science, Physics & Minor in Education — *August 2004 – May 2009*

Experience

- **University of Tennessee, Department of Physics and Astronomy** — **Knoxville, TN,**
  Graduate Research Assistant — *May 2014 – Present*
    - Designed and constructed front end electronics for an electron spectrometer.
    - Used Oscilloscopes to test signals, debug logic modules, and map out inconsistent signals.
    - Maintained and refurbished individual detector components of a spectrometer including checking the quality of Photo Multiplier Tubes and plastic scintillators.
    - Performed analysis on a large set of data involving multiple nuclear targets using Python, C++ , ROOT, and fortran.
    - Worked with a diverse collaboration, leading projects and working as a team member

- **University of Tennessee, Department of Physics and Astronomy** — **Knoxville, TN,**
  Graduate Teaching Assistant — *August 2012 – May 2015*
    - Designed and implemented observational and planetarium based astronomy labs.
    - Instructed students in laboratory exercises to help conceptualize physics topics.

- **Clay County Tennessee Education Department** — **Celina, TN**
  Secondary Educator & Football Coach — *August 2010 – May 2012*
    - Created lesson plans that included interactive, creative thinking, and discussion driven curriculum for a diverse body of math and physics students.
    - Provided an equitable and inclusive atmosphere for diverse students.

Core Technical Skills

Hardware: Detector maintenance and wiring, front end electronics design and implementation, logical trigger design and testing

Languages: C, C++, LaTeX, Python, shell script, SQL
Monte Carlo Simulation Packages
Example scripts located at https://github.com/jbane11/examples

Software: Microsoft Office, Libre Office, Texstudio, vim, atom

Operating Systems: Linux(Red Hat), Windows, MacOS