Jason Bane

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Experience

- **University of Tennessee, Department of Physics and Astronomy** **Knoxville, TN,**
  Graduate Research Assistant *May 2014 – Present*
    - Designed and constructed front end electronics for a detector system.
    - Maintained and refurbished detector components of a spectrometer.
    - Worked in DOE-regulated environment within range of high magnetic field and extreme pressure areas.
    - Calibrated detectors and used analysis tools in Java to control the quality of data during an experiment.
    - Performed analysis on a large data sets using Python, C++ , ROOT, and fortran.
- **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.
    - Tutored students for homework assistance and test prep.
- **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.
    - Used discussion-based problem-solving lessons to help remedial math students to improve their algebra, geometry and trigonometry skills for post-secondary education.
    - Provided an equitable and inclusive atmosphere for diverse students.

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*

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

Honors

- Jefferson Science Associates graduate fellowship award (2018)
- Chancellor's honors for extraordinary professional promise (2016)
- DOE Office of Science Graduate Student Research program award (2015)
- Dean's List 2009 Academic Year (2010)

Interests

Football, coaching, programming, boating, traveling,