Benjamin Rose

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Current Education Program

Doctor of Philosophy
The University of Notre Dame
South Bend, IN

First Year 2012

Completed Education

Bachelor of Science, cum laude
Whitworth University, Spokane, WA
Concentration: Physics
Minor: Mathematics

May 2012

Employment

Laboratory Teacher Assistant
The University of Notre Dame

August 2012 - December 2012

- Led the labs for the second semester of Introductory Physics for Pre-Med Students

Supplemental Instruction (SI) Leader for Physics
Whitworth University

September 2011 - May 2012

- Led a group study session of introductory physics material
- Implemented active learning techniques

Research Experience for Undergraduates
Triangle Universities Nuclear Laboratory (TUNL)
Durham, NC

Summer 2011

- Worked on *Determining the Location of a Radioactive Source in* MAJORANA DEMONSTRATOR described in "Lab Work & Projects"

Laboratory Teaching Assistant
Whitworth University

February 2011 - May 2011

- Assisted in and graded an introductory physics lab session

Personal Tutor
High School Student, Algebra II and Geometry

September 2010 - May 2011

- One-on-one sessions, reinforcing content and working on homework

Awards

Presidential Scholarship, Whitworth University	2008 - 2012
Delbert E. Friesen Memorial Scholarship, Whitworth University	2011 - 2012
Talent Scholarship in Physics, Whitworth University	2008 - 2011
Talent Scholarship in Music, Whitworth University	2009 - 2012
Laureate Society, Whitworth University	4 Semesters

- Having a semester GPA of 3.75 or greater

Activities

American Physical Society, Memeber	2011 - Present
Whitworth University Wind Symphony	2009 - 2011
Club Treasurer, Whitworth University	2009 - 2011

Computer Skills	Computer Languages & Programs:
	• Proficient: ROOT, Python, Mathematica, MATLAB, LaTeX
	• Basic Knowledge: C++
	• Some Experience: LabVIEW, FORTRAN, Apple Script

Presentations

Poster Session:
American Physical Society Department of Nuclear Physics (APS DNP)
Michigan State University   October 27, 2011
East Lansing, MI
• *Determining the Location of a Radioactive Source in* MAJORANA DEMONSTRATOR

Presentation:
Research Experience for Undergraduates
Duke University   August 2, 2011
Durham, NC
• APS style presentation of summer research

Lab Work & Projects

Physics Outreach   Spring 2012
• Worked with middle school students on high altitude weather balloon experiments
• Personally worked on radiation and ozone detector systems, as well as temperature sensors

Determining the Location of a Radioactive Source in MAJORANA DEMONSTRATOR
                                                                          Summer 2011
• Presented at poster session of APS DNP 2011
• Worked at TUNL analyzing Monte Carlo generated data to determine how well MAJORANA can resolve the location of a radioactive hot spot

Cosmic Rays   Fall 2010
• Detected Cosmic Rays with respect to altitude using a three Geiger counter telescope
• Used a high altitude weather balloon

Electronic Robot   Spring 2010
• Electronics class final project
• Designed and built a robot that wrote and erased on a whiteboard

Differential Equations   Fall 2009
• Differential Equations class final project
• Mapping the movement of a building during an earthquake by using numerical methods in MATLAB