Julie E. Managan

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• Career Goal: graduate study leading to research position in particle physics

• Research skills: ROOT program, data logistics, material property simulations

• Computer skills: Unix, C/C++, Perl, grid computing (PBS)

Education: • Vanderbilt University, Nashville TN

College of Arts & Sciences B.A. in Physics, 2009

Honors in Physics, summa cum laude

Minor: General Music

Awards	• Phi Beta Kappa,	Vanderbilt University	2009
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•	Underwood Memorial Scholarship, Dept. of Physics	2009
•	McMinn Scholarship, Dept. of Physics	2007 - 2009
•	Earnest A. Jones Scholarship, Dept. of Physics	2007
•	College Scholar, Vanderbilt University	2005 - 2009
•	National Merit Finalist and Award Winner	2005

Leadership • Victory A Cappella choir, Musical Director 2007 – 2009

Experience: • National Honor Society Member 2004 – 2005

Research Experience:

• Vanderbilt University – High Energy Physics group

- 2007 2009
- **Experience:** Optimized the REDDnet data logistics network for the CMS Tier-3 data center at Vanderbilt.
 - Learned about the challenges of "big data", using grid computing systems, and the ROOT software program.
 - Three weeks at CERN as part of the McMinn Scholarship.
 - Lawrence Livermore National Laboratory *Beam Research group* 2007
 - Modeled surface flashover of annular dielectrics in high gradient electric fields for development of the Dielectric Wall Accelerator, a compact accelerator designed for proton radiation therapy.
 - Presented a research poster at LLNL undergraduate poster session.

Publications: • J. R. Harris, D. Blackfield, G. J. Caporaso, Y. J. Chen, S. Hawkins, M. Kendig, B. Poole, D. M. Sanders, M. Krogh, and J. E. Managan, "Vacuum Insulator Development for the Dielectric Wall Accelerator", J. Appl. Physics 104 023301 (2008).

• J.E. Managan and J.R. Harris, "Simulation of Electron Trajectories Inside an Annular Dielectric". U.S. Dept. of Energy Journal of Undergraduate Research 8 (2008), 252.

References:

• Dr. Paul Sheldon – PI, Vanderbilt HEP

• Dr. John Harris – LLNL Beam Research Group

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