

Jane Burward-Hoy

Staff Scientist at Los Alamos National Laboratory

Summary

Physicist with extensive knowledge in both modeling and instrument design for the detection of energetic particles in a radiation environment. Current experience includes writing technology development proposals, delivering products to sponsors, presenting results to audiences with a wide range of expertise, and meeting milestones within an awarded budget. Background experience includes: High Energy Nuclear Physics, Condensed Matter Physics, Low Temperature Experimental Physics, High Energy X-Ray Astrophysics.

Specialties

C++, GEANT4, MCNPX, Parallel Computer Processing, Instrument Design and Response

Experience

Physicist at Los Alamos National Laboratory

January 2004 - Present (8 years 1 month)

- o Principal Investigator of an energetic particle instrument in the Space Science and Applications Group
- o Writing proposals for program development
- o GEANT4 Modeling and Instrument Response Simulations
- o C++ Code Development, ROOT, IDL, Perl, Parallel Computer Processing

Post Doctoral Staff Scientist at Los Alamos National Laboratory

January 2003 - February 2004 (1 year 2 months)

- o Data Analysis and Algorithm Development in C++ (J/Psi in p-A Collisions at RHIC-BNL)
- o Collaboration duties as required (shifts)
- o Parallel Computer Processing

Post Doctoral Staff Scientist at Lawrence Livermore National Laboratory

October 2001 - January 2003 (1 year 4 months)

- o Bose-Einstein Correlations in High Energy Nuclear Physics (RHIC at BNL)
 - o Presented results at a Plenary Session in Quark Matter in Nantes, France
 - o Paper writing and publication
 - o Elected and served in the RHIC/AGS Users Executive Committee (UEC) as the Post Doctoral/Graduate student representative.
 - o Data Analysis and Algorithm Development in C++, Parallel Computer Processing
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Education

State University of New York at Stony Brook

Ph.D., Physics, 1997 - 2001

Activities and Societies: APS

University of California, Berkeley

B.A., Double Major in Physics and Applied Mathematics, 1991 - 1995

Honors and Awards

9/2002: RHIC/AGS Thesis Award by Batelle Memorial Institute and Stony Brook University

4/2001: Gertrude Scharff-Goldhaber Prize for Outstanding Research

5/1998: The David Fox Prize for Outstanding Teacher Assistant

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