

Jeffery Thomas Mitchell

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EXPERIENCE

Software application development: Over 20 years experience developing pattern recognition software (including experience with neural network techniques), data analysis, simulations, data visualization (OpenGL, X11, and Java), animations, and real-time data monitoring applications for five major high energy physics experiments.

Management: 6 years experience as coordinator of data production activities for the PHENIX experiment. 3 years experience as coordinator of global and hadronic physics analysis for the PHENIX experiment. 4 years experience as the coordinator of a successful project to develop pattern recognition and data analysis software for the PHENIX experiment at Brookhaven National Laboratory. There were over 40 physicists involved in the project.

Web administration: 16 years experience maintaining several web sites at Brookhaven National Laboratory, including educational sites integrating Java applets and animations. My animations have appeared on news programs of many major networks including ABC, CNN, and BBC.

System administration: 5 years experience maintaining a small IRIX 5.3 system for 50 users. 2 years experience in LINUX system maintenance.

Additional Comments: My work has been published in many scientific journals including Nuclear Instruments and Methods, IEEE Transactions on Nuclear Science, Physical Review, and Nuclear Physics. I have presented my work in an international forum including seminars in Europe, China, Japan, Yale, and MIT.

TECHNICAL

- **Languages:** C++, Java, C, PERL, Tcl/Tk, FORTRAN
- **Operating Systems:** Windows, Unix, Linux

EDUCATION

1986-1992: Yale University, New Haven, CT

- Ph. D. - December 1992.
- M. S. - May, 1988.
- M. Phil. - May, 1988.

1982-1986: Louisiana State University in Shreveport, Shreveport, LA

- B. S. - May, 1986.

PAST EMPLOYMENT

February, 1995 - Present:

Physicist, Brookhaven National Laboratory

Projects: Pattern Recognition software, data analysis, simulations, detector calibrations, scientific visualization, animation.

June, 1992 - January, 1995:

Postdoctoral Fellow, Lawrence Berkeley National Laboratory

Projects: Data analysis, pattern recognition, simulations, data visualization.

1988-1992:

Research Assistant, Yale University

Teaching Assistant, Yale University

PROFESSIONAL MEMBERSHIP AND AWARDS

American Physical Society

Phi Kappa Phi

Recipient of the 2001 Brookhaven National Laboratory Sambamurti Prize.

Recipient of the Distinguished Alumni Award, LSU-Shreveport, 2011.