

Jeffery Thomas Mitchell

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EXPERIENCE

Data Analysis: Over 25 years of experience analyzing large scientific datasets. Participated in measurements and analyses that led to the discovery of the Quark Gluon Plasma. Specialized in measurements of correlations and fluctuations in data from relativistic heavy ion collisions.

Software Development: Over 21 years of experience developing pattern recognition software, data analysis and data science applications, simulation and modeling applications, data mining applications, data visualization applications, scientific animations, and real-time data monitoring applications for six major high energy physics experiments.

Management: 6 years of experience as coordinator of data production and data mining activities for the PHENIX experiment. 3 years of experience as coordinator of global and hadronic physics data analysis for the PHENIX experiment. 4 years of experience as the coordinator of more than 40 physicists on a successful project to develop pattern recognition and data analysis software for the PHENIX experiment.

Documentation and Communication: More than 180 peer reviewed papers. Many invited talks at international conferences. Experienced with LaTeX. 16 years of experience maintaining web sites, including educational sites integrating Java applets and animations. My animations have appeared on news programs of many major networks including ABC, CNN, and BBC.

TECHNICAL SKILLS

- **Languages:** C++, Java, Python, C, Perl, Tcl/Tk, Fortran
- **Databases:** PostgreSQL
- **Statistical Tools:** R, ROOT
- **Platforms:** Linux, Windows

EDUCATION

Yale University, New Haven, CT

Ph. D. (Nuclear Physics) - December 1992.

M. S. (Nuclear Physics) - May, 1988, M. Phil. - May, 1988.

Louisiana State University in Shreveport, Shreveport, LA

B. S. (Physics) - May, 1986.

PAST EMPLOYMENT

1995 - Present:

Physicist, Brookhaven National Laboratory

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

1992 - 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

Member of the RHIC User's Group Executive Committee, 2000-2002, 2015-present

Member of the Critical Point and Onset of Deconfinement International Organizing Committee, 2013-present

American Physical Society

Phi Kappa Phi

Recipient of the 2001 Brookhaven National Laboratory Sambamurti Prize.

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