Curriculum Vitae

Scott A. Klasky **May 29, 1996**

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Education

- University of Texas, Center for Relativity, Ph.D. Physics, Summer 1994.
- Drexel University, B.S. Physics, 1989

Post-Doctoral Fellowships

- University of Texas, Center for Relativity, 1994-1995

Publications

- "Multigrid support with the `DAGH` package: Specifications and Applications" (w/ M. Choptuik et al.), *Site report, 1995* .
- "A Technique for Tracking Apparent Horizons," (w/ M. Huq et al.), *to be submitted* .
- "A Parallel Implementation of Multi-Grid in one dimension" (w/ R. Guenther), (Site report, 1994).
- "Visualizing Complex Patterns in the Spread of Head and Neck Cancers," (w/ L. Gray et al.), *The International Journal of Supercomputer Applications* i**7**, 167 (1993).
- "Three-dimensional initial data for the collision of two black holes," (w/ G. Cook et al.), *Physical Review* **D47**, 1471 (1993).
- "Properties of gravitational "solitons" " (w/ J. Centrella et al.), *Physical Review* **D43**, 379 (1991).

Awards and Distinctions

- Member of Phi Beta Kappa, honor society, 1991
- Senior Honorable Mention Award at Drexel University, 1989
- Member and President of Sigma Pi Sigma at Drexel University, 1987

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Professional Experience

- The University of Texas System Center for High Performance Computing, Department of Scientific Visualization, Research Assistant, 1989-1993. Developed Marching Cubes Algorithms and visualization of medical data.
- Drexel University, Relativity Group, Research Assistant, 1989. Coauthored a Computational/Theoretical paper on solitons on a Kasner background.
- Princeton Plasma Physics Laboratory, Diagnostics Division, Junior Physicist, 1987,1988. Developed software to analyze spectroscopy data. Developed hardware for use of monitoring the spectroscopy equipment.
- Dyna East Corporation, Junior Engineer, 1986. Simulated warheads using Finite Element codes.

Computer Languages and Other Skills

- FORTRAN, fluent; C, fluent; GL, fluent; DORE, fluent; Maple; Pascal.

Numerical Algorithm Experience

- Parallel Multi Grid
- Multi Grid
- Adaptive Techniques
- Domain Decomposition
- Richardson extrapolation
- Deferred Correction
- Conjugate Gradient Methods
- Jacobi, Gauss Seidel, S.O.R.

Invited Professional Talks

- "Numerical techniques for tracking boosted black holes", University of Texas, Relativity Seminar, 1995
- "Numerical techniques for the Initial Value Problem for Two Black Holes", University of Texas, Final Defense, 1994
- "Multi Level Adaptive Tehniques, MLAT, for Elliptic Equations", University of Illinois, NCSA, 1994
- "Multi Level Adaptive Techniques for the Initial Value Problem of Black Holes" , Penn State University, 1993
- "Generating Highly accurate Black Hole Data from low order techniques", University of Texas, Relativity Seminar, 1993
- "A three dimensional line S.O.R. method for the solution of the black hole initial value problem", University of Illinois, NCSA, 1992
- "A three dimensional line S.O.R. method for the solution of the black hole initial value problem", University of Texas, Relativity Seminar, 1992
- "The annihilation of a cosmic string loop", University of Texas, Qualifier, 1991
- "Cosmic Strings, the seeds for galaxies in the early universe", University of Texas, Relativity Seminar, 1991
- "Cosmic Strings, the seeds for galaxies in the early universe", The University of Texas System Center for High Performance Computing, 1991

References

- Richard A. Matzner, Center for Relativity, University of Texas at Austin
- Matthew W. Choptuik, Center for Relativity, University of Texas at Austin
- Manish Parashar, Center for Relativity, University of Texas at Austin