

Miriah D. Meyer

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Education

University of Utah, Salt Lake City, UT

Ph.D. in Computer Science, Summer 2007 (expected)

“Dynamic Particle Systems for Adaptive Sampling of Implicit Surfaces”

Advisor: Ross Whitaker

Pennsylvania State University, University Park, PA

B.S. in Astronomy & Astrophysics with Honors, Fall 1999

Minors: Physics, Women’s Studies

Experience

Scientific Computing and Imaging Institute, University of Utah

Research Assistant, 2002 - present

Chicago Tribune, Chicago, IL

Science Writer, Summer 2006

Raytheon Corporation, Bedford, MA

Software Engineer, 2000 - 2002

Department of Astronomy & Astrophysics, Pennsylvania State University

Research Assistant, 1996 - 1999

Publications

Refereed Papers

M. Meyer, B. Nelson, R. Kirby, R. Whitaker. “Particle Systems for Efficient and Accurate High-Order Finite Element Visualization”, accepted to IEEE Transactions on Visualization and Computer Graphics.

A. Sanderson, M. Meyer, R. Kirby, C. Johnson. “A Framework for Exploring Numerical Solutions of Advection-Reaction-Diffusion Equations using a GPU based approach”, accepted to Computing and Visualization in Science.

J. Cates, M. Meyer, T. Fletcher, R. Whitaker. “Entropy-Based Particle Systems for Shape Correspondence”, In Proceedings of the Workshop on Mathematical Foundations of Computational Anatomy, MICCAI 2006, pp. 90–99.

M. Meyer, P. Georgel, R. Whitaker. “Robust Particle Systems for Curvature Dependent Sampling of Implicit Functions”, In Proceedings of the International Conference on Shape Modeling and Applications 2005, pp. 124–133.

Technical Reports

M. Meyer, H. Pfister, C. Hansen, C. Johnson. "Image Based Volume Rendering with Opacity Light Fields", Scientific Computing and Imaging Institute Technical Report, UUSCI-2005-002, 2005. (see <http://www.sci.utah.edu>)

M. Meyer. "Pre-Main Sequence Stars in the Orion Nebula Cluster", Honors Thesis, Pennsylvania State University, 1999.

Awards and Honors

AAAS Mass Media Fellow 2006

Grace Hopper Conference Scholarship Recipient 2006

NSF Women In Science and Engineering Research Funding Recipient, 1996 – 1998

Professional Service

Member: IEEE, National Association of Science Writers

Volunteer: IEEE Visualization Conference 2002 and 2003

Reviewer: ACM SIGGRAPH, IEEE Visualization, ACM EuroGraphics, Computer Graphics Forum

University Service

Co-Founder and Member: Women@cs, University of Utah

Co-Organizer: Graduate Student Social and Lecture with Jorge Cham, University of Utah, Fall 2005

Graduate Student Advisory Committee: School of Computing, University of Utah, 2003 – 2004

References

Ross Whitaker, Ph.D.

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Greg Jones, MBA, Ph.D.

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Governors Office of Economic Development
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Hanspeter Pfister, Ph.D.

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Senior Research Scientist
Mitsubishi Electric Research Laboratories
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