Kristin Carrie Potter, Ph.D.

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Versatile computer scientist *seeking unique career opportunity to flex 10 years of programming experience, excellent communication, organization, and writing skills, and extensive computer science background including graphics, visualization, and user interfaces. Ideal position would utilize technical expertise in combination with oral and written communication and require attention to detail, an ability to quickly adapt to new environments and provide opportunity for active participation in project direction, design, and development. Unique talents include an ability to effectively interact with people across technical boundaries and fields, problem solving, an eye for design, and a love of writing.*

Education

Ph.D., University of Utah, August 2010.
Advisor: Richard Riesenfeld. *The Visualization of Uncertainty.*
M.S., University of Utah, May 2003.
Advisor: Richard Riesenfeld. *3D Line Textures for NPR Walkthroughs.*
B.S., University of Oregon, May 2000.
Computer Science, Fine Arts. Art History (minor)

Professional Experience

Research Computer Scientist, Scientific Computing and Imaging Institute,
University of Utah, Apr. 2011-present
Post-Doctoral Fellow, Scientific Computing and Imaging Institute,
University of Utah, Dec. 2009-Apr. 2011
Research Assistant, Scientific Computing and Imaging Institute,
University of Utah, Jan. 2008-Dec. 2009
Graduate Intern, Data Analysis and Visualization Dept.,
Sandia National Laboratories, NM, Jun. 2008-Sep. 2008
Research Assistant, Geometric Design and Computation Research Group,
University of Utah, Aug. 2000-Dec. 2007
Teaching Assistant, School of Computing,
University of Utah, August 2001 - December 2004, Spring 2006, Fall 2007
Leader, Undergraduate Research Team, Department of Computer Science,
University of Utah, Summer 2001

Technical Skills

C/C++, Java, OpenGL, Python, Perl, bash, Qt, FLTK, R, VTK, CMake, Maya, Gimp, Photoshop, Illustrator, LaTeX, XML, HTML, CSS, PowerPoint, Keynote, OSX, UNIX/LINUX, Windows

Selected Publications

(1) **Visualization of Uncertainty Without a Mean.** *Kristin Potter*, Samuel Gerber, and Erik W. Anderson. IEEE Computer Graphics and Applications, vol. 33, no. 1, pp. 75–79, 2013.

(2) **Data Analysis with the Morse-Smale Complex: The msr Package for R.** Samuel Gerber, and *Kristin Potter*. Journal of Statistical Software, vol. 50, no. 2, pp. 1–22, 2012.

(3) **Interactive Visualization of Probability and Cumulative Density Functions.** *Kristin Potter*, Robert M. Kirby, Dong Bin Xiu, and Chris R. Johnson. International Journal of Uncertainty Quantification, vol. 2, no. 4, pp. 397-412, 2012.

(4) **A User Study of Visualization Effectiveness Using EEG and Cognitive Load.** Erik W. Anderson, *Kristin Potter*, Laura E. Matzen, Jason F. Shepherd, Gilbert A. Preston, and Claudio T. Silva. Computer Graphics Forum, vol. 30, no. 3, pp. 791–800, 2011. (Best Paper Runner-Up).

(5) **Visualizing Summary Statistics and Uncertainty.** *Kristin Potter*, Joe Kniss, Richard Riesenfeld, and Chris R. Johnson. Computer Graphics Forum (Proceedings of EuroVis 2010), vol. 29, no. 3, pp. 823–831, 2010.

(6) **Ensemble-Vis: A Framework for the Statistical Visualization of Ensemble Data.** *Kristin Potter*, Andrew Wilson, Peer-Timo Bremer, Dean Williams, Charles Doutriaux, Valerio Pascucci, and Chris R. Johhson. In *IEEE Workshop on Knowledge Discovery from Climate Data: Prediction, Extremes*, pp. 233–240, 2009.

(7) **Resolution Independent NPR-Style 3D Line Textures.** *Kristin Potter*, Amy Gooch, Bruce Gooch, Peter Willemsen, Joe Kniss, Richard Riesenfeld, and Peter Shirley. Computer Graphics Forum, vol. 28, no. 1, pp. 52–62, 2009.

(8) **IStar: A Raster Representation for Scalable Image and Volume Data.** Joe Kniss, Warren Hunt, *Kristin Potter*, and Pradeep Sen. IEEE Transactions on Visualization and Computer Graphics, vol. 13, no. 6, pp. 1424–1431, 2007.