

Short Curriculum Vitae for

Dianne Hansford, Ph.D.

dianne@farinhansford.com
www.farinhansford.com/dianne
Tel: 480-703-0263

4952 East Mockingbird Lane
Paradise Valley, AZ 85253

Professional Interests

My research interests are in the fields of geometric modeling and scientific visualization. The focus of my work has been on industrial curve and surface applications related to mathematical definitions of shape. The three books that I have co-authored demonstrate my dedication to sharing my knowledge and passion for mathematics, geometric modeling, and scientific visualization.

Professional Preparation

- 1991 Ph.D., Arizona State University (Computer Science), Advisor: R. Barnhill
- 1988 M.S., Arizona State University (Computer Science), Advisor: R. Barnhill
- 1986 B.S., University of Utah (Mathematics)

Professional Experience

- 2016 - Present Lecturer, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University
- 2000 - Present Co-founder and Vice President of Research and Development, 3D Compression Technologies, Inc., www.3dcompress.com
- 1994 - Present Co-owner, Farin-Hansford R&D and NURBS Depot
Textbooks, consulting, and software development
Sample projects see www.farinhansford.com/consulting.html
- 2006 - 2009 Associate Research Professor, School of Computing and Informatics, Arizona State University
- 2004 - 2006 Assistant Research Scientist, Arizona State University, within the Institute for Computing and Information Sciences and Engineering (InCISE) and Partnership for Research In Spatial Modeling (PRISM)
- 2002 - 2004 Adjunct Faculty, Arizona State University
- 1996 - 1997 Visiting Assistant Professor, Arizona State University
- 1992 - 1994 Senior CADD/CAM Scientist, Manufacturing & Consulting Services, Inc.
- 1991 - 1992 Fulbright Research Scientist in Germany at Technical University Darmstadt (Host: J. Hoschek) and Technical University Braunschweig (Host: W. Boehm)
- 1986 - 1990 Consulting for Lockheed Aeronautical Co., Daimler-Benz, and Environmental Systems Research Institute

Publications

Books

G. Farin and D. Hansford. Practical Linear Algebra, A Geometry Toolbox, 3rd Edition, CRC Press Taylor & Francis Group An A K Peters Book, 2013. ISBN 978-1-4665-7956-9.
www.farinhansford.com/books/pla

G. Farin and D. Hansford, Mathematical Principles for Scientific Computing and Visualization, AK Peters, 2008. ISBN: 978-1-56881-321-9.
www.farinhansford.com/books/scv

G. Farin and D. Hansford. The Essentials of CAGD, 229 pages, AK Peters, Natick, Massachusetts, 2000. ISBN: 1-56881-123
www.farinhansford.com/books/essbook/essentials-cagd

Recent Refereed Articles

G. Farin, D. Hansford. Agnostic G1 Gregory surfaces, Graphical Models, volume 74, pp. 346-350, 2012.

Xiangjiu Che, G. Farin, Zhanheng Gao, D. Hansford. The product of two B-spline functions, Advanced Materials Research, volume 186, pp. 445-448, 2011.

K. Mueller, C. Fuenfzig, L. Reusche, D. Hansford, G. Farin, H. Hagen, DINUS – Double insertion, non-uniform, stationary subdivision surfaces, ACM Transactions on Graphics, volume 29, number 3, pp. 1-21, 2010.

Invited Articles and Book Chapters

Simon, D. Hansford, A. Razdan, Geometric Modeling, in The SAS Encyclopedia of Archaeological Sciences, edited by Professor Sandra L. Lopez Varela, sponsored by the Society for Archaeological Sciences, Publisher Wiley-Blackwell, to appear 2016

Full Curriculum Vitae:

http://www.farinhansford.com/dianne/DianneHansford_CV_Long.pdf