

A. Professional preparation

- B.S. (Vor-diplom) Mathematics and Physics
University of Saarbrücken, Germany
- M.S. (Diplom) with highest honors in Theoretical Physics
Ludwig Maximilian University, Germany, 1996
- PhD (Dr.-Rer.Nat) with highest honors in Computer Science
University of Kaiserslautern, Germany, 2003
- Post-doc in Computer Science, 2003-2006,
Institute for Data Analysis and Visualization, University of California

B. Appointments

- Professor in Scientific Visualization, April 2015 – present
Linköping University (LiU), Sweden.
- Head of the scientific visualization group, May 2013 - March 2015
German Aerospace Center (DLR), Brunswick, Germany
- Research group leader, funded by the DFG Emmy-Noether Program for young researchers, September 2006 – 2012
Zuse Institute Berlin, associated with the Free University Berlin, Germany
- Postdoctoral Researcher, September 2003 - September 2006
Institute for data analysis and visualization, University of California Davis, USA
- Researcher, January 1999 – July 2003
Department of Computer Sciences, University of Kaiserslautern, Germany
- Researcher, Oct 1998 – Dec 1998
German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany
- Software Developer, March 1998 – Sept 1999
Employee at the software development company Tecmath GmbH&Co KG (now: HUMAN SOLUTIONS GmbH), Kaiserslautern, Germany

C. Tutoring experience

Ongoing PhD Student supervision

- Rickard Ecklund, PhD student, LiU, ongoing
- Sathish Kotavel, PhD student, LiU, ongoing
- Jochen Jankowei, PhD student, LiU, ongoing

Completed Supervised PhD Thesis

Main supervisor, FU Berlin

- Dr. Cornelia Auer finished July 2013. Scientific focus: tensor field visualization using topological methods. Now: Employee at Architecture Visualization Company, Germany
- Dr. Andrea Kratz finished Feb 2013. Scientific focus: Hybrid interactive 3D-tensor field visualization. Now: Postdoctoral researcher at Zuse Institute Berlin, Germany
- Dr. Jens Kasten finished June 2012. Scientific focus: Analysis and visualization time-dependent flows. Now: Postdoctoral researcher at University Leipzig, Germany
- Dr. Jan Reininghaus, finished Jan 2012. Scientific focus: Combinatorial scalar- and vector field topology. Now: Postdoctoral researcher at Institute of Science and Technology, Austria

Co-supervised PhD Thesis

- Roxana Bujack, Title: Orientation Invariant Pattern Detection in Vector Fields with Clifford Algebra and Moment Invariants, University of Leipzig, Germany, finished November 2014. (Main supervisor, Geric Scheuermann)
- Michael Schlemmer Title: Pattern Recognition for Feature Based and Comparative Visualization. In the context of the International Graduate College, TU Kaiserslautern, Germany. Submitted at the TU Kaiserslautern, Finished April 2011. Official member of the PhD-committee. (Main supervisor: Hans Hagen)
- Louis Feng Title: Texture -based Visualization of Tensor Fields. Submitted at the University of California Davis, October 2010. (Main supervisor: Bernd Hamann)
- Jaya Sreevalsan Nair: Title: Computational and Interactive Visualization with a Focus on Topological Analysis, Dual Contouring and Water-resource Data Representation. Submitted at the University of California Davis, October 2007, Official member of the PhD-committee. (Main supervisor: Bernd Hamann)

D. Networks in academia and industry

Most important active research collaborations with the University of Utah (USA), Indian Institute of Science (IN), University of Leipzig (DE), Zuse Institute Berlin (DE), University of Dortmund (DE), Karolinska Institutet (SE), Linköping University (SE), KTH Stockholm (SE).

F. Other merits of relevance

- Coordinator of the SeRC Visualization Community, since August 2015
- Chair of the international workshop series for "Topological Methods in Visualization (TopoinVis) since 2015.
- Swedish Network organization for Information and Communication Technology (ICT) (ELLIIT), Elliit professor since 2015
- "*Seeing organ function – patient specific image data driven organ exploration and simulation*" (SoF). Wallenberg project funding. Member since 2015.
- Affiliation with the Center for Medical Image Science and Visualization (CMIV)

Conferences and Workshops – chairing and organization

- Paper Co-chair (SciVis) IEEE Visualization conference 2017.
- Co-chair SIGRAD conference 2017.
- Co-Organizer of the Dagstuhl Seminar 16142 - Multidisciplinary Approaches to Multi-valued Data: Modeling, Visualization, Analysis, April 2016.
- Co-Organizer of the Dagstuhl Seminar 14082 - Visualization and Processing of Higher Order Descriptors for Multi-Valued Data, February 2014.
- Co-Chair at the biannual workshop on Topology-Based Methods in Visualization March 2013, Davis, USA.
- Conference and Programm Co-Chair at the Eurographics/IEEE Symposium on Visualization 2009, Berlin, Germany.