

Dr. Anne Gehre

Curriculum Vitae

✉ anne.gehre@gmx.net
🌐 www.annegehre.de



*26.10.1988, Neuss, Germany

Citizenship German

Employment

- Nov. 2013 – **Visual Computing Institute, RWTH Aachen University.**
Feb. 2019
- Cutting edge research in the field of geometry processing and shape analysis, employing machine learning, data analysis, and optimization algorithms.
 - Planning and teaching of lectures, exercise courses, and seminars in computer graphics, geometry processing, global illumination, and image based rendering.
 - Presentations at international conferences and workshops.
 - Supervision of Bachelor's theses, Master's theses, and student assistants.
- Nov. 2011 – **Chair of Computer Graphics and Multimedia, RWTH-Aachen University.**
May 2013 Research to develop a software for mobile screen sharing
- Oct. 2009 – **Chair of Computer Science 12, RWTH-Aachen University.**
Jan. 2010 Support the lecture *Programming in Java, Haskell, and Prolog*

Education

- Nov. 2013 – **Doctoral studies, Visual Computing Institute, RWTH Aachen University,** supervised by
Feb. 2019 Prof. Dr. Leif Kobbelt, Topic: 3D Shape Analysis based on Feature Curve Networks.
Grade: Magna cum laude
- Sep. 2017 - **Research internship (Doctoral studies), Geometric Data Processing Group, Massachusetts**
Feb. 2018 **Institute of Technology (MIT),** supervised by Prof. Dr. Justin Solomon, Topic: Functional Maps with Feature Curve Networks.
- Oct. 2011 – **Master of Science (Computer Science, minor: Electrical Engineering (EE)), RWTH**
Sep. 2013 **Aachen University,** with focus on computer graphics and computer vision.
Thesis: Simulating Flow in Thin Vessels and Tube Structures using Vorticity-Preserving Fluids,
Grade: 1.0, with honors
- Oct. 2008 – **Bachelor of Science (Computer Science, minor: EE), RWTH Aachen University.**
Sep. 2011 Thesis: Event Detection in Videos based on Object Trajectories, Grade: 1.7
- 1999 – 2008 **Abitur (A-Levels), Pascal Gymnasium Grevenbroich,** Grade: 1.7.

Stays Abroad

- 2017/2018 **Massachusetts Institute of Technology, Cambridge/USA.**
1994 – 1996 **Pleasant Valley Elementary School, Mc Murray Pittsburgh PA/USA.**

Technical Skills

- in use C++, MATLAB, Python, Gurobi, CGAL, PyTorch, OpenMP, PCL, Qt
experience C, Objective-C, Java, OpenGL, GLSL, Clips, Arduino
basics HTML, Haskell, Prolog

Languages

German native speaker, **English** fluent, **French** basics

Publications

- 2018 **Anne Gehre, Isaak Lim, and Leif Kobbelt**, *Feature Curve Co-Completion in Noisy Data*, In *Computer Graphics Forum, Proceedings Eurographics 2018*.
- 2018 **Anne Gehre, Michael Bronstein, Leif Kobbelt, and Justin Solomon**, *Interactive Curve Constrained Functional Maps*, In *Computer Graphics Forum, Proceedings Eurographics Symposium on Geometry Processing 2018*.
- 2018 **Larry Wang, Anne Gehre, Michael Bronstein, and Justin Solomon**, *Kernel Functional Maps*, In *Computer Graphics Forum, Proceedings Eurographics Symposium on Geometry Processing 2018*.
- 2016 **Anne Gehre, Isaak Lim, and Leif Kobbelt**, *Adapting feature curve networks to a pre-scribed scale*, In *Computer Graphics Forum, Proceedings Eurographics 2016*.
- 2016 **Isaak Lim, Anne Gehre, and Leif Kobbelt**, *Identifying Style of 3D Shapes using Deep Metric Learning*, In *Computer Graphics Forum, Proceedings Eurographics Symposium on Geometry Processing 2016*.
- 2016 **Anne Gehre, David Bommers, and Leif Kobbelt**, *Geodesic Iso-Curve Signature*, In *Vision, Modeling and Visualization*, The Eurographics Association, 2016.

Scholarships and Awards

- May 2017 **DAAD scholarship FITweltweit**, Funding for a research project at the MIT.
- Nov. 2014 **Friedrich-Wilhelm-Preis**, Exceptional accomplishment in studies and research.
- 2014 **Springorum-Denkmünze**.
- Dec. 2013 **Ericsson-Preis**, Best Masters Thesis in Computer Science at the RWTH Aachen University.
- Dec. 2013 **Deans-List RWTH Aachen University**, Award for the best 5% of students.
- 2011 – 2013 **Bildungsfonds Scholarship**, Deutschland-Stipendium.
- 2002 – 2008 **Jugend forscht and Chemie Entdecken**, Several awards.

Organization, Community Service, and Commissions

- 2016–2018 **Reviewer for International Conferences and Journals.**
 - MVA 2019 - International Conference on Machine Vision Applications (Full Papers)
 - CAD 2019 - Computer-Aided Design (Journal)
 - CAD 2018 - Computer-Aided Design (Journal)
 - 3DV 2018 - International Conference on 3D Vision (Full Papers)
 - Eurographics 2017 (Full Papers)
 - VMV 2016 - 21st International Symposium on Vision, Modeling and Visualization (Posters)
- 2015 – 2017 **Commission for RWTH Aachen Professorships.**
 - Commission member for W3 Professorship *Computer Vision*
 - Commission member for W3 Professorship *Datenmanagement und Exploration*
 - Commission member for W2 Professorship *Visual Computing*
- 2015 **Member of the organization committee of the 20th International Symposium on Vision, Modeling and Visualization (VMV 2015).**

Activities

- Sports Kendo (Member of the 1st Budoclub Eschweiler e.V.), Dancing (Member of Saltatio Aachen e.V.), Sailing, Running, Cardio Fitness, Skiing