

Curriculum Vitae

Christoph Neuhauser

Website with contact information: chrismile.net/about

Education

- 04/2019 - 12/2020 **Technische Universität München (TUM), Munich, Germany**
M.Sc. Informatics
Final grade: 1.0
Thesis title: "Opacity-based Rendering of Hexahedral Meshes and Principal Stress Lines"
- 04/2017 - 04/2019 **Technische Universität München (TUM), Munich, Germany**
B.Sc. Informatics
Final grade: 1.3
Thesis title: "Opacity-based Rendering of Large Trajectory Datasets with Pixel Synchronization"
Minor: Mathematics
- 10/2015 - 04/2017 **Technische Universität München (TUM), Munich, Germany**
B.Sc. Informatics: Games Engineering (not finished)
- 2007 - 2015 **Hertzhaimer-Gymnasium Trostberg, Germany**
Final grade: 1.0
- 2003 - 2007 **Elementary school, Trostberg, Germany**

Work Experience

- starting 01/2021 **PhD candidate, Technische Universität München**
Chair of Computer Graphics and Visualization, Faculty of Informatics
- 03/2020 - 05/2020, 11/2020 - 12/2020 **Student research assistant, Technische Universität München**
Chair of Computer Graphics and Visualization, Faculty of Informatics
- Research in the area of real-time computer graphics and scientific visualization.
 - Submitted paper to TVCG: "Interactive Focus+Context Rendering for Hexahedral Mesh Inspection" (not yet accepted)
- 09/2019 - 02/2020 **Student research assistant, Technische Universität München**
Chair of Geometry and Topology (M10), Faculty of Mathematics
- Extension of mathematical content creation framework CindyJS to support stereoscopic 3D, output on virtual reality headsets and finger tracking using a LeapMotion device.
- 02/2019 - 08/2019 **Student research assistant, Technische Universität München**
Chair of Computer Graphics and Visualization, Faculty of Informatics
- Research in the area of real-time computer graphics and scientific visualization.
 - Co-author of published paper: "A Comparison of Rendering Techniques for 3D Line Sets with Transparency"

Voluntary activities

- Since 10/2015 **Evangelische Studentenwohnheime München e.V., Munich**
Network administrator, student co-management

Skills

- Languages:
- German, native speaker
 - English, very good (DAAD language certificate, CEFR C2)
 - Japanese, good (CEFR B1)
 - Latin, good (advanced Latin proficiency exam)
- Programming Languages & Frameworks
- Very good skills in C/C++, JavaScript and Python
 - Good skills in Java, C# and PHP
 - Lots of experience with OpenGL (ES), WebGL, Qt, Unity3D, WebXR, SciPy, NumPy, Matplotlib, NVIDIA CUDA, OpenCL
 - Experience with DirectX/Direct3D 11, PyTorch, Node.js

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Garching bei München, December 29, 2020