

ABOUT

I am a Ph.D. student in computer science at Harvard University, advised by Hanspeter Pfister. I am deeply interested in data visualization, biomedical imaging, and computer vision. My latest research focuses on applications of data visualization in neuroscience and climate sciences. When I am not prototyping new ideas, I enjoy rowing, reading philosophy, hiking, or just being in nature.

EDUCATION

Harvard University Ph.D. in Computer Science, Advisor: Prof. Hanspeter Pfister – Focus: Data Visualization, Computational Neuroscience	Cambridge, MA 2021–2027
TU Wien M.Sc. in Visual Computing, Advisor: Prof. Eduard Gröller – Focus: Data Visualization, Biomedical Imaging, Computer Vision – GPA: 1.1/1.0	Vienna, Austria 2019–2021
TU Wien B.Sc. with Honors in Medical Informatics, GPA: 1.45/1.0 – Thesis: Flow Visualization on Curved Manifolds – Among the top 5% of all computer science students	Vienna, Austria 2015–2019

EXPERIENCE

Harvard University Research Assistant with Prof. Hanspeter Pfister – Visualization of Large-Scale Biomedical Data – Scalable Comparison and Neighborhood Analysis of Nanoscale Brain Structures	Cambridge, MA 09/2021 - present
King Abdullah University of Science & Technology (KAUST) Research Intern with Prof. Markus Hadwiger – Observer Relative Flow Visualization in Curved Spaces – Co-authored a publication which won the SciVis Best Paper Award at IEEE VIS 2020	Thuwal, Saudi Arabia 02/2019 - 05/2019
Brainlab AG Research Intern – Path Tracing for Realtime 3D Medical Visualization – Mixed Reality for 3D Medical Visualization	Munich, Germany 08/2018 - 01/2019
Jetsam GmbH Software Development Intern – Developed a face recognition system for marketing purposes	Regensburg, Germany 08/2017 - 09/2017

PUBLICATIONS

- [1] P. Rautek, M. Mlejnek, J. Beyer, J. Troidl, H. Pfister, T. Theußl, and M. Hadwiger, “Objective observer-relative flow visualization in curved spaces for unsteady 2d geophysical flows”, *IEEE Transactions on Visualization and Computer Graphics*, 2020.

TEACHING

- **Teaching Fellow** at TU Wien Fall 2020
Selected Chapters from Medical Visualization
- **Teaching Fellow** at TU Wien Spring 2017, Spring 2018
Introduction to Visual Computing
- **Teaching Fellow** at TU Wien Fall 2017
Introduction to Computer Engineering

SKILLS

- **Coding:** C++, Python, Matlab, HTML, CSS, Java-Script, Java
- **Tools:** Unity, QT, CMake, Latex

LANGUAGES

English, German

SCHOLARSHIPS AND AWARDS

- 6-year PhD fellowship, Harvard University 2021
- Best SciVis Paper, IEEE VIS 2020 (among the best 3 papers out of 211 accepted papers) 2020
- Scholarship, Austrian Marshall Plan Foundation (9.100\$) 2020
- Bachelor with Honors, TU Wien (among the top 5% of CS students at TU Wien) 2020
- Short-term grant for scientific work abroad, TU Wien (3.100\$) 2020
- Merit Based Scholarship, TU Wien (1.000\$) 2018

REFERENCES

- **Hanspeter Pfister**, An Wang Professor of Computer Science, Harvard University
pfister@g.harvard.edu
- **Eduard Gröller**, Full Professor, TU Wien
groeller@cg.tuwien.ac.at
- **Markus Hadwiger**, Full Professor, KAUST
markus.hadwiger@kaust.edu.sa