RAVI SNELLENBERG

Software Engineer / Computer Graphics Enthusiast

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🌐 rsnelllenberg.github.io/portofolio in ravi-snellenberg ○ Rsnelllenberg

EXPERIENCE

Student/Teaching Assistant
TU Delft University

📅 March 2024 – January 2025 📍 Delft

- Create a GPU-accelerated direct volume renderer for a course assignment framework using C++ and OpenGL
- Help students during the lab for the said Data Visualization course

Teaching Assistant
TU Delft University

📅 January 2024 – March 2024 📍 Delft

- TA for the 3D computer graphics and animations course, which focuses on real-time rendering techniques such as those used in 3D engines
- Help students with the assignments during the labs and grade them afterwards

Student Assistant
TU Delft University

📅 September 2022 – December 2024 📍 Delft

- Built a VR application in Unity (C #) that makes use of a hyperbolic space with a couple of other students, with a professor as supervisor
- Advertise the VR application at several conferences and events, as well as publish a paper about it

PUBLICATIONS

📖 Master Thesis (IEEE Bio+Medvis Award winner)

- **R. Snellenberg** and T. Höllt, *T-sne based transfer functions for multi-attribute volume rendering*, 2025. [Online]. Available: https://publications.graphics.tudelft.nl/papers/831.

👥 Conference Proceedings

- M. Skrodzki, S. Jochems, J. Rijsdijk, **R. Snellenberg**, and R. Bidarra, "Holonomy: A virtual reality exploration of hyperbolic geometry," in *Proceedings of the 29th International ACM Conference on 3D Web Technology*, New York, NY, USA, 2024.
- M. Starkov, S. Jochems, J. Rijsdijk, **R. Snellenberg**, *et al.*, "Sonifying motor skills with pizzicato, a game for motor behavior research," in *2024 IEEE Conference on Games (CoG)*, 2024.

I ENJOY

- **Visual Design**
  Making visual imagery using 3D modeling and drawing
- **Taking walks**
  I like some form of exercise, and it helps clear my mind
- **Reading**
  I am a big fan of (mostly) fantasy stories

STRENGTHS

Curious   Analytical

Real-time rendering   Data Visualization

LANGUAGES

Dutch (Native) ●●●●●

English ●●●●●

German ●◐○○○

EDUCATION

M.Sc. in Computer Science
TU Delft

📅 Sept 2023 – Sept 2025

Course focus: Computer Graphics and AI

B.Sc. in Computer Science
TU Delft

📅 Sept 2020 – June 2023

VWO (Technasium)
Newman College

📅 Sept 2014 – June 2020