

# RAVI SNELLENBERG

Software Engineer / Computer Graphics Enthusiast

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in ravi-snellenberg



## 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 (soon to be conference proceeding)

- R. Snellenberg, "Neighborhood-preserving dimensionality reduction for multivariate volume rendering," M.S. thesis, TU Delft, 2025.

### Conference Proceedings

- M. Skrodzki, S. Jochems, J. Rijdsdijk, 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. Rijdsdijk, 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