

Sebastian Antes

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EDUCATION AND TRAINING

01/10/2023 – CURRENT Vienna, Austria
MASTER OF SCIENCE VISUAL COMPUTING TU Vienna

Current focus on information visualization, rendering, medical visualization. Practical work includes autostereoscopic volume rendering of cardiac ultrasound data on the Sony Spatial Reality Display at Siemens Healthineers, Gamification of Renderpipeline using OpenGL, information visualization prototypes using Python and D3.js, Various AI and machine learning projects using python and typescript frameworks.

Diploma Thesis (Ongoing Process)
AI Music Visualization
Python audio analysis. Use of generative AI for mapping feature space to visualization space. Real-time visualization in the browser using WebGL.

Level in EQF EQF level 7

01/10/2019 – 28/08/2023 Vienna, Austria
BACHELOR OF SCIENCE MEDIA INFORMATICS TU Vienna

Bachelor's Thesis
Visualizing the Human Visual Pathway

Developed an interactive web application using TypeScript, Three.js, and D3.js to simulate the impact of neurological lesions on the human visual pathway. The project features a realistically reconstructed 3D anatomical model synchronized with an abstracted 2D graph to provide real-time visualization of visual field deficits. This interdisciplinary tool bridges the gap between medical theory and practical insight, offering an intuitive platform for educational and research purposes.

Website <https://www.tuwien.at/> | **Level in EQF** EQF level 6

WORK EXPERIENCE

UNIVERSITY TEACHING ASSISTANT - FUNDAMENTALS OF VISUALIZATION, INFORMATIONVISUALIZATION – TU VIENNA – 01/03/2025 – 31/07/2026 – VIENNA, AUSTRIA

- supervising students in tutor sessions
- providing feedback & grading assignments
- conducting submission talks
- adjusting teaching materials.

WEB DEVELOPMENT & DESIGN – GLOBART – 24/08/2021 – 31/03/2025 – VIENNA, AUSTRIA

Website: <https://www.globart.at>

- Build & maintain: React/Javascript + WordPress/PHP sites; reusable components; responsive design.
- Optimize: Performance, accessibility, SEO; faster loads via media pipelines.
- Create & ship: Videoproduction, design, content creation.

IT-TEACHER – STEP IT ACADEMY – 01/09/2022 – 28/08/2023 – VIENNA, AUSTRIA

Taught ages 9–14 foundational programming via project-based lessons in block-based and introductory text-based coding (e.g., Scratch, JavaScript, Wordpress), differentiated instruction for mixed skill levels. Guided students to build mini-games, animations, and simple web pages, emphasizing debugging and computational thinking.

Maintained an inclusive classroom and communicated progress to parents/coordinators.

● **HOBBIES AND INTERESTS**

Music: Guitar playing and audioprocessing

Animation design, 3D-modelling & gamedevelopment

Photography and Videography

Outdoor sports: Hiking, snowboarding, snorkeling...

● **LANGUAGE SKILLS**

German (native)

English (fluent)