

Sofia d'Atri

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EDUCATION

Master in Computer Science | **ETH Zurich** | Zurich, Switzerland Sep. 2024 - Present

- Major: Visual and Interactive Computing, Information Security

Bachelor in Computer Science | **Università della Svizzera Italiana** | Lugano, Switzerland Sep. 2021 - June 2024

- Full tuition scholarship of merit.** Average: 5.2/6
- Project: **Raytracer** (2023)
 - Created a stochastic raytracer in **C++** with Perlin noise textures, image texturing, optimization, custom obj loader.
 - This project won the 2023 Computer Graphics Rendering Competition.
- Project: **JourneyTales** (2023)
 - Full-stack developer** on a 12-person team building a travel-focused social media web app with login, friendship, and real-time notification features.
- Project: **HandShake** (2022)
 - Built an instant messaging web app in a 5-person team featuring video calls, group chats, and friend management.
 - Contributed to both **backend** and **frontend (UI/UX)** and led the **advertising campaign**.

EXPERIENCE

Physics Simulation Scientific Internship | IST Austria | Vienna, Austria July 2024 - Sep. 2024

- Developed a 2D **surface tracker**, focusing on how attributes are transferred as the mesh deforms and as the surface undergoes topological changes using **Python** and **C++**.
- Potential applications are continuum mechanics simulations using the **material point method** (MPM) and foam simulations.

Data Management and Workflow Automation | Kellerhals Carrard | Lugano, Switzerland Dec. 2022 - Present

- Designed and executed **automation pipelines** using **Microsoft Power Automate** and **Power BI**, streamlining document creation, email drafting, and messaging processes.
- Efficiently managed **databases**, implementing **relational models** and **SQL queries**.
- Provided **technical support** and participated in testing phases for the selection of new company programs.
- Trained colleagues in Excel, Power BI, and AI tools to enhance efficiency and data literacy across teams.

IT SKILLS

Languages: C++, JavaScript, Python, C#, C, Java

Frameworks: Spring Boot, Vue.js, Node.js, OpenMP, glm, JUnit, Eigen, MEVN stack, OpenXR

Tools: Power Automate, Power BI, GitHub Actions, Unity Engine

EXTRACURRICULAR ACTIVITIES

Head of Marketing | VIScon (VIS ETH) Feb. 2025 - Oct. 2025

- Coordinated **marketing logistics** and project management for VIScon, ETH Zurich's largest student-run tech conference.
- Managed event's social media accounts, increasing **event attendance by over 40%** compared to the previous year.

Social Media Management | Bequantum Nov. 2022 - Mar. 2024

- Handcrafted posts for BeQuantum's social media profiles and managed a community of **300+ members**.

Quantum Computing Lectures and Conferences Feb. 2022 - Mar. 2023

- Taught **quantum computing** lectures and programming labs to a total **100+ students** in high schools in Italy.
- Held a conference on state of the art of quantum computing for a general non-expert public with **50+ attendees**.

LANGUAGES

Italian native | **English** proficient | **Spanish** intermediate | **French** basic | **German** beginner

HOBBIES

Playing piano at concerts, cooking, learning languages and active participation in student associations and event organization.