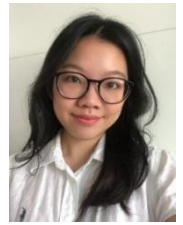


Renate Nana Zhang

Donaufelder Straße 241/1/9, Vienna 1220 Austria
+43 699 1418 3763 | renate.zhang@outlook.com
basicasian.github.io



EDUCATION

- 2023 - **Technical University of Vienna** MSc Media and Human-Centered Computing, English-taught
2026
 - Expected graduation in February 2026, current GPA 1.24 (Austria)
- 2024 **Beijing Institute of Technology** Exchange Student in MSc Computer Science, English-taught
 - 4-month stay, focus on logic and digital design
- 2019 - **Technical University of Vienna** BSc Media Informatics and Visual Computing, German-taught
2023
 - Graduated with distinction, GPA 1.6 (Austria)
- 2021 - **University of Vienna** BSc Sinology, German and Chinese-taught
2025
 - Expected graduation in February 2026, current GPA 1.6 (Austria)

WORK EXPERIENCE

- on-going **Research Assistant, Aalto University, Helsinki**
 - Generalizable Bayesian optimization method for physical-virtual co-optimization using a novel cost-aware approach (Python, ML)
- 2025 **AR Lab Technician, Snap Inc**
 - Setup and execution of product testing session with Snap Inc's AR glasses Spectacles
 - Support process and organize collected test data for analysis
- 2024 **Student Employee for Master's Course "Foundations of Ubiquitous Computing and IoT", Technical University of Vienna**
 - Assistance for course team in preparing materials and grading assignments
 - Tutoring of students in using a microcontroller (MicroPython, laser cutting, 3D printing)
- 2022 - **Internship for 12 months, Erste Digital GmbH, Vienna**
2023
 - Frontend Development of company software Erste Bank
 - NgRx state management lifecycle, Angular, Typescript, HTML and CSS

PROGRAMMING EXPERTISE

- on-going **Master's Thesis, Immersive Real-Time Language Translator for Augmented Reality**
 - Implementation of a language translation framework for AR glasses (Spectacles)
 - Enabling real-time cross-language communication between multiple users
 - Integration of Automatic Speech Recognition, Text-to-Speech technologies and Large Language Models in Snap's Lens Studio using JavaScript, TypeScript
- 2025 **Virtual and Augmented Reality: Advanced Topics, Printorial**
 - Implementation of an interactive handheld AR application
 - Immersive beginner tutorial on how to use 3D printer in UnrealEngine (Blueprints)
- 2024 **Virtual and Augmented Reality, Riddle Retreat**
 - Implementation of a collaborative VR application for 2 players (HTC Vive)
 - Collaborative puzzle solving game in Unity (OpenXR, C#)
- 2023 **Bachelor's Thesis, User Navigation Using Different Locomotion Techniques in VR**
 - Exploration of different locomotion techniques, walking, steering and teleportation (HTC Vive)
 - Development and evaluation of experimental platform in Unity (OpenXR, C#) with pilot study

SKILLS AND INTERESTS

- Languages** German (native), English (C1), Mandarin (B2), Spanish (A1)
- Technology** Java, C#, Python, JavaScript, Typescript, Unity, C++, HTML, CSS, SQL, MicroPython, Git, Spring Boot, Angular, Figma, Bootstrap, Android SDK, OpenXR, Blender, CAD
- Interests** Chinese History and Culture, Pilates, Badminton