



Executive Summary

- My current research is focused on the area of **Human-Computer Interaction** - Real world context-based conversations
- Proficient in Python, Java, C#, C++, with experience in writing code in many other languages as well
- Tools and Libraries: Git, OpenCV, NumPy, TensorFlow, pandas, Unity, IoT automation platforms, Azure API, OpenAI API, Doubao API, Huawei Mobile Services, Android Development

Work Experience

Tsinghua University, Beijing (Teaching Assistant, 2021/01 - 2022/01)

- Assisted lead instructor in facilitating Human-Computer Interaction course
- Helped and taught both international and local students
- Developed educational tutorials and provided assistance to students for group projects

Huawei Technologies Co., Ltd, Moscow (Software Engineer, 2019/02 - 2019/08)

- Worked on low-level Graphic Profiling Tools using **C++**
- Retrieved information from integrated GPU counters, which helped to gain more precise timings for draw calls
- These tools were used by Graphic optimization and QA teams
- Coordinated with developers across Russia and China

Samsung RC, Ltd, Moscow (Intern, Programmer, 2018/06 - 2018/09)

- Developed Computer vision algorithms in 3D Avatar team using **C++** and **Python**
- Worked on OpenCV source code for removing camera distortion and implemented face physical landmark detection algorithm
- Our solution was later included into the Operating System release

Education

- PhD in Computer Science (2021/09-2026/07), Tsinghua University, China
- Master's in Computer Science (2019/09-2021/06), GPA 3.9, Tsinghua University, China
- Bachelor's in Computer Science (2015/09-2019/06), Lomonosov Moscow State University, Russia

Projects + Technology stack

- **OpenAI API + Azure AI + Huawei Mobile Services** - AI real-world agent - LLM-based agent, which utilizes multimodal information derived from a set of sensors to construct comprehensive human portraits and manage real-world contextual conversations
- **Unity C# + IoT platforms** - [NUIX-Studio APP](#) - A platform to test AIoT environments in Virtual Reality. Based on Microsoft MRTK, OpenHAB and HomeAssistant (version 1), it lets users to extend real-world IoT devices with additional functionality in the Virtual Reality. Version 2 is based on Oculus SDK and includes a user interface, which allows prototyping IoT interactions in Virtual Reality without any programming knowledge
- **Blender** - Special effects for TikTok - I created 10 advanced AR effects for TikTok (Douyin), which have been used for more than 3 million times.

Qualifications and Awards

- Tsinghua University-Goertek Innovation Proposal Competition - Outstanding Mentor Award (2024)
- TCL RayNeo AI Challenge - 3rd Place (2024)
- Huawei Certification: HCIA-**AI** (2020)
- MSU Higher School of Business - Best Startup 2018 - **AI** Vehicle Damage Assessment (2018)
- Certificate of 2-week Practice in **Web Apps** Development, Samsung RC, Ltd, Moscow (2017)
- Yandex.Money Hackathon - Most Technological Bot (2016)
- National and First-level Olympiads of **Mathematics** (2015, 2012), National Olympiad of **Competitive Programming** (2014)

Publications (as the first author)

- Modification of Algorithm for inverting matrices with elements from ring of scalar differential operators. CMC MSU MAKs PRESS 2019: 88 (in Russian)
- ClarifAI: Context-Aware Abnormality Detection Through Human-Agent Collaboration. IMWUT 2025 (CCF A; under submission)
- SightTalk: Real-world Data Captioning through Human-Agent Collaboration. IMWUT 2025 (CCF A; under submission)
- Conversational Contextual Care: A Human-AI Collaborative Approach for Addressing Minor Psychological Concerns Through Real-world Interactions. CSCW 2025 (CCF A; under submission)

Misc. Information

- Languages: English (C2, IELTS 7.5), Chinese (B2, HSK3 295/300), Russian (native)
- Holder of the Hong Kong ID card, allowing right to abode without any visa restrictions.

