Jiahao Xu

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Education

Virginia Tech — VA, United States
Doctor of Philosophy in Computer Science & Applications program — *08/2023 - present*
- Advisor: Chris North

Tufts University — MA, United States
Master of Science of Computer Science — *01/2021 - 05/2023*
- GPA: 3.80

University of California, Irvine — CA, United States
Exchange Student Program — *04/2019 - 10/2019*
- GPA: 3.62 (Spring Quarter), 3.543 (Summer Session)

Chang'an University — Xi'an, China
Bachelor of engineering of Computer Science and Technology — *09/2016 - 06/2020*
- GPA: 3.29

Research Experience

Graduate Researcher — Virginia Tech
Advisor: Chris North — *09/2022 – 05/2023*
- Explanability of Dimension Reduction process

Graduate Researcher — Tufts University
Advisor: Remco Chang — *09/2022 – 05/2023*
- Hypothesis-driven visual analysis

Teaching

CS3724 - Human-Computer Interaction — Virginia Tech
Teaching Assistant — *2023 Fall*

CS178 - Visual Analytics — Tufts University
Teaching Assistant — *2023 Spring*

CS170 - Computational Theory — Tufts University
Teaching Assistant — *2022 Spring*

CS114 - Network Security — Tufts University
Teaching Assistant — *2021 Fall*

Selected Projects

HypoExplorer | *JavaScript, Python, Flask* — 08/2022 – 05/2023
- An interactive visual interface that enables users to generate hypotheses by their analysis tasks and data attributes of interest
- Including a parser for The Grammar for Hypothesis-Driven Visual Analysis

Constructive solid geometry | *C++, OpenGL* — 02/2023 – 05/2023
- Implemented Constructive Solid Geometry and created several scene files to demonstrate the implementation

VAST2019-MC3 | *JavaScript, D3* — 01/2022 – 05/2022
- An interactive visualization system for VAST2019 MC3

Visulization of Convex Hull Construction | *C++,LEDA* — 09/2021 – 12/2021
- Visualizatoin of Incremental Approach of Convex Hull construction

Technical Skills

Languages: C++, Python, JavaScript
Framework: React, Flask, Django
Libraries: D3, OpenCV, OpenGl, LEDA
Applications: Wireshark, Unity, MeshLab