

# Yanwei Huang

MSE Student, Zhejiang University  
huangyw@zju.edu.cn • +1 4122240854 • <http://yhuang.top>

EDUCATION	<b>Zhejiang University</b> , Hangzhou, China <ul style="list-style-type: none"><li>M.S. in Software Engineering (GPA: 92.36/100) Sep 2022 – Now</li><li>B.S. in Computer Science (GPA: 3.91/4) Sep 2018 – Jun 2022</li></ul>
RESEARCH EXPERIENCE	<b>Data Interaction Group, Carnegie Mellon University</b> Jul 2024 – Now <ul style="list-style-type: none"><li>Supervisor: AProf. Adam Perer and Prof. Jason I. Hong<ul style="list-style-type: none"><li>Projects: WeAudit and Vipera</li><li>Focus: Sensemaking and auditing of large language models</li></ul></li></ul> <b>Interactive Data Group, Zhejiang University</b> Jun 2021 – Now <ul style="list-style-type: none"><li>Supervisors: Prof. Yingcai Wu and AProf. Di Weng<ul style="list-style-type: none"><li>Projects: Rigel, NL2Rigel, Table Illustrator, and StructVizor</li><li>Focus: Designing interfaces for data practitioners, covering activities such as data wrangling and profiling</li></ul></li></ul>
INTERESTS	Visualization, Generative AI, Data Science, Human-Computer Interaction, and Social Computing
PUBLICATIONS	<b>UNDER REVIEW &amp; IN PROGRESS</b> <ul style="list-style-type: none"><li>[-] <u>Y. Huang</u>, W. Deng, S. Xiao, M. Eslami, K. Holstein, J. Hong, and A. Perer, “Vipera: Auditing text-to-image models with structured multi-faceted analysis,” <i>In progress</i>.</li></ul> <b>FIRST-AUTHOR PAPERS</b> <ul style="list-style-type: none"><li>[1] <u>Y. Huang</u>, Y. Miao, D. Weng, A. Perer, and Y. Wu, “StructVizor: Interactive profiling of semi-structured textual data,” <i>ACM Conference on Human Factors in Computing Systems (CHI)</i>, 2025.</li><li>[2] <u>Y. Huang</u>, Y. Zhou, R. Chen, C. Pan, X. Shu, D. Weng, and Y. Wu, “Interactive Table Synthesis with Natural Language,” <i>IEEE Transactions on Visualization and Computer Graphics (TVCG)</i>, 2024.</li><li>[3] <u>Y. Huang</u>, Y. Yang, X. Shu, R. Chen, D. Weng, and Y. Wu, “Table Illustrator: Puzzle-based interactive authoring of plain tables,” <i>ACM Conference on Human Factors in Computing Systems (CHI)</i>, 2024.</li></ul> <b>OTHER PAPERS</b> <ul style="list-style-type: none"><li>[4] S. Liu, Y. Liu, J. Li, <u>Y. Huang</u>, Y. Shangguan, Z. Deng, D. Weng, and Y. Wu, “RidgeBuilder: Interactive Authoring of Expressive Ridgeline Plots,” <i>ACM Conference on Human Factors in Computing Systems (CHI)</i>, 2025.</li><li>[5] Y. Zhou, X. Cai, Q. Shi, Y. Huang, H. Li, H. Qu, D. Weng, and Y. Wu, “Xavier: Toward Better Coding Assistance in Authoring Tabular Data Wrangling Scripts,” <i>ACM Conference on Human Factors in Computing Systems (CHI)</i>, 2025.</li><li>[6] R. Chen, D. Weng, <u>Y. Huang</u>, X. Shu, J. Zhou, G. Sun, and Y. Wu, “Rigel: Transforming Tabular Data by Declarative Mapping,” <i>IEEE Transactions on Visualization and Computer Graphics (TVCG)</i>, Presented at <i>IEEE VIS</i>, 2023.</li><li>[7] M. Wu, L. Jiang, J. Xiang, Y. Huang, H. Cui, L. Zhang, and Y. Zhang, “One Fuzzing Strategy to Rule Them All,” in <i>International Conference on Software Engineering (ICSE)</i>, 2022.</li></ul>
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"><li>National Scholarship 2024</li><li>Outstanding Graduate Award, Zhejiang University 2023</li><li>Yongping Scholarship 2022</li><li>China Collegiate Programming Contest, Bronze Medal 2019</li></ul>
INTERNSHIPS	<b>Frontend Engineer Internship</b> , ByteDance Inc., Shanghai, China Feb 2021 – Jun 2021 <ul style="list-style-type: none"><li>Collaborate with Lark Suite<ul style="list-style-type: none"><li>Participated in developing the frontend and SDK of Lark, a telecommunication software</li></ul></li></ul>
SERVICES	<ul style="list-style-type: none"><li><b>Reviewer:</b> ACM CHI, IEEE VIS, IEEE PacificVis Journal Track, ChinaVIS</li></ul>