

Jinbin Huang

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SUMMARY

I design and develop interactive interfaces to help people understand machine learning models. I also apply immersive technologies to enhance sense-making in data analytics.

EDUCATION

Arizona State University <i>Ph.D. in Computer Science</i>	Tempe, AZ Aug. 2019 – Present
Sun Yat-Sen University <i>B.S. in Mathematics</i>	Guangzhou, China Aug. 2014 – May 2018

RESEARCH EXPERIENCE

Graduate Research Assistant <i>Arizona State University</i>	Fall 2019 – Present Tempe, AZ
<ul style="list-style-type: none">• Advisor: Chris Bryan• Research on eXplainable AI and immersive analytics	
Research Intern <i>Bosch USA</i>	May 2022 – Aug 2022 Sunnyvale, CA
<ul style="list-style-type: none">• Mentor: Wenbin He• Designed and developed deep learning explanation system using vision-language model and prototypical concepts	
Research Assistant <i>Duke Kunshan University</i>	Summer 2018 – Summer 2019 Kunshan, China
<ul style="list-style-type: none">• Developed deep learning based image stitching algorithms for an array of nine megapixel cameras by leveraging topological structure of the target array camera and an optical-flow estimating super-resolution network	

INDUSTRIAL EXPERIENCE

AR R&D Intern <i>OPPO U.S. Research Center</i>	May 2021 – Aug 2021 Palo Alto, CA
<ul style="list-style-type: none">• Designed and conducted empirical study to test various designs for comfortable mid-air gesture interaction• Developed functions for mid-air gesture based object manipulation	

PUBLICATIONS

- Huang J.**, Mishra A., Kwon B., Bryan C. (2022) ConceptExplainer: Interactive Explanation for Deep Neural Networks from a Concept Perspective, in *IEEE Transactions on Visualization and Computer Graphics*
- Huang J.**, Liang S., Xiong Q., Gao Y., Mei C., Xu Y., Bryan C. (2022) SPARVIS: Combining Smartphone and Augmented Reality for Visual Data Analytics, in *IEEE ISMAR 2022 Conference, Visual Analytics in Immersive Environments (VAinIE) Workshop*
- Mishra A., Soni U., **Huang J.**, Bryan C. (2022), Why? Why not? When? Visual Explanations of Agent Behavior in Reinforcement Learning *2022 IEEE Pacific Visualization Symposium (PacificVis)*, pp. 111-120. IEEE, 2022
- Huang, J.**, Plasencia J., Bardo D., Rubert N., Ellsworth E., Zangwill S., Bryan C. (2021) Phoenix Virtual Heart: A Hybrid VR-Desktop Visualization System for Cardiac Surgery Planning and Education, *2021 IEEE Workshop on Visual Analytics (VAHC)*, pp. 36-40. IEEE, 2021
- Huang, J.**, Mishra A., Arunkumar A., Bryan C. (2020) TotemFinder: A Visual Analytics Approach for Image-based Key Players Identification, *2020 IEEE Conference on Visual Analytics Science and Technology (VAST Challenge)*, **Honorable Mention**

SKILLS

JavaScript, c#, Unity, TensorFlow, Python, d3.js, React.js, tensorflow.js, PyTorch