

Jinbin Huang

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OBJECTIVE

I am a believer of the enormous potential value that HCI and visualization can bring to humanity, looking for internship opportunities in Explainable AI/XR(AR/VR)/Interactive Visual Analytics projects.

EDUCATION

Arizona State University

Tempe, AZ

Ph.D. in Computer Science; Cumulative GPA: 3.94/4.0; Advisor: Dr. Chris Bryan

Aug. 2019 – Present

Sun Yat-Sen University

Guangzhou, China

B.S. in Mathematics; Yat-Sen Honor College; GPA: 3.90/4.00

Aug. 2014 – May 2018

EXPERIENCE

Graduate Research Assistant

Fall 2019 – Present

Arizona State University

Tempe, AZ

- **VR Heart**

Developed a VR application on Unity that facilitated heart surgery planning for cardiologists who were enabled to investigate and virtually interact with patient's heart through customized model manipulations, such as dragging, rotating, and cross-sectional cutting

- **VAST Challenge 2020**

Designed and developed an interactive visual analytic approach – TotemFinder – for identifying key players inside of a social network to tackle the Mini Challenge 2 of VAST Challenge 2020, which received **Honorable Mention**

- **Visualizing Smart Grid**

Developed programs in python for large-scale PMU (Phasor Measurement Unit) data reading and processing and programs for testing data query efficiency at different data granularity and in different server configurations for a large scale platform designed to assist power system management

Deep Learning Engineer

Summer 2018 – Summer 2019

Computer Lab of Duke Kunshan University

Kunshan, China

- **Deep-learning Based Image Stitching**

Developed CNN(convolutional neural network)-based image stitching algorithms for 100-MegaPixel array camera: leveraged topological structure of the target array camera and an optical-flow estimating super-resolution network, eliminating the need of explicit feature points searching, delivered concept-demonstrating prototype in TensorFlow and tested on product

- **Auto Color Correction for Camera**

Developed a color matching algorithm for array-cameras: Building models for ISP pipeline to linearize sRGB calibration data; Converting MATLAB prototype code to Python code; Collecting data and conducted algorithm testing.

PUBLICATIONS

Huang, J., Mishra A., Arunkumar A., Bryan C. (2020) TotemFinder: A Visual Analytics Approach for Image-based Key Players Identification. In *IEEE VIS 2020 Vast Challenge Mini Challenge 2*

SCHOLARSHIPS AND AWARDS

Honorable Mention for Effective Use of Visual Encodings for Correcting Classification Errors in VAST Challenge 2020, Mini-Challenge 2

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SJavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, Material-UI, Unity

Libraries: pandas, NumPy, Matplotlib