

EDUCATION

Arizona State University

Ph.D. in Computer Science, Advisor: Chris Bryan

Tempe, AZ

2019–Current

Sun Yat-Sen University

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

Guangzhou, China

2014–2018

- Thesis: “Text Detection in Natural Scene”

PUBLICATIONS

- [1] **H. Jinbin**, M. Aditi, A. Anjana, and C. Bryan, “TotemFinder: A Visual Analytics Approach for Image-based Key Players Identification”, in *Vast Challenge 2020 of IEEE Conference on Visual Analytics Science and Technology (VAST) 2020 (To Appear)*, Oct. 2020.

EXPERIENCE

Arizona State University

Graduate Research Assistant

Tempe, AZ

Fall 2019 - Present

- VR-based heart Model Visualization
- Developed a VR application that facilitates heart surgery planning for cardiologists who is 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 for identifying key players inside of a social network to tackle the Mini Challenge 2 of VAST Challenge 2020, which received honorable mention
- Visualization for Smart Power Grid
- Conducted test for data query efficiency at different data granularity and in different computational environments for a large scale platform designed for assisting power system management

Computer Lab of Duke Kunshan University

Deep Learning Engineer

Kunshan, China

Summer 2018 - Summer 2019

- Neural-network based image stitching
- Designed and developed a neural architecture that took two images of different resolutions and shoot angles as input and super-resolved the low-resolution one using graphical and topological information from the high-resolution image
- Auto Color Correction for Camera
- Developed an adaptive algorithm that estimated image lightness and computed color correction matrix to adjust image color

SCHOLARSHIPS AND AWARDS

- **Honorable Mention:** Effective Use of Visual Encodings for Correcting Classification Errors at VAST Challenge 2020 on Mini-Challenge 2