

Hang Yang

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EDUCATION

Nankai University (NKU)

B.S. in Computer Science

Tianjin, China

Expected Graduation: June 2022

INTERESTS

- Machine Learning, Computer Vision, and Medical Image Processing.
- MLIR, Electronic Design Automation, and Computer Architecture.

EXPERIENCE

GNN-Aided HLS Design Optimization

Undergraduate Intern

Sharc Labratory, Georgia Institute of Technology

Sep. 2021 - Ongoing

Graphology Analysis Using Computer Vision Methodology

Team leader

NKU, Tianjin China

May 2020 - June 2021

Built a model that can output one's personality traits by analysing their handwriting images.

- Collected the first Chinese graphology dataset.
- Designed algorithms to extract 59 handwriting features.
- Deployed the model on a local company for better human resources management.
- The [paper](#) is under review (AAAI 2022)

Clinical Corneal Topography Pattern Recognition

Technical representative from CS department

Tianjin Eye Hospital, Tianjin China

Mar. 2021 - Ongoing

Our goal is to develop an automatic model to predict the effectiveness of orthokeratology lenses, collaborating with Tianjin Eye Hospital and School of Medicine of Nankai University.

- Recommended the technical methodology taken by the team.
- Investigated how diagnosis being made in the hospital and distilled the rules into pseudo-code.
- Extracted 3 crucial features and designed classifiers.

Skin Disease Classification and Retrieval Model

Research assistant

NKU, Tianjin China

Mar. 2021 - May 2021

Built an retrieval model to make skin disease prediction.

- Built a classification model with Pytorch and enlarged the dataset.
- Developed the front end of the demo.
- Try the demo [here](#).

AWARDS AND HONORS

- Excellent Yunnan student scholarship
- 2nd Prize of student innovation project of Nankai University
- 2nd prize of Nankai University Challenge Cup (science and technology invention track)
- Honorable Mention of Mathematical Contest In Modeling, 2021

SKILLS

- Languages: C++(advanced), Python(advanced), MATLAB, JavaScript, HTML/CSS, MySQL
- Tools: Pytorch, Jittor, Linux(Ubuntu), LaTeX, Raspberry Pi, Adobe suite, Office suite
- Fluent in English (TOFEL 106), Basic in Spanish, Chinese (Native).