Hang Yang

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EDUCATION

Nankai University **Tianjin, China**
B.S. in Computer Science *Expected Graduation: June 2022*

INTERESTS

- Computer Vision and Digital Image Processing
- Medical Image Analysis
- Machine Learning

EXPERIENCE

Graphology Analysis Using Computer Vision Methodology **NKU, Tianjin China**
Team leader *May 2020 - June 2021*

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

- Created a graphology dataset using images from the volunteer experiments we conducted.
- Designed algorithms to extract 17 handwriting features.
- Fine-tuned a Shuffle-Net for tree-test regression.
- Integrated and deployed the model on a local company for better human resources management.
- Refined and wrote a paper targeted for AAAI 2022 as the first author.

Clinical Corneal Topography Pattern Recognition **Tianjin Eye Hospital, Tianjin China**
Technical representitive from CS department *Mar. 2021 – Ongoing*

Collaborated with Tianjin Eye Hospital and School of Medicine of Nankai University. Our goal is to develop an automatic model to predict the effectiveness of a pair of corneal shaping lens.

- Recommended the research direction 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 **NKU, Tianjin China**
Research assistant *Mar. 2021 – May 2021*

Built an retrieval model to make skin disease prediction.

- Modified the WS-DAN networks as feature extractor.
- Enlarged the dataset.
- Built the front-end web for the model.

AWARDS AND HONORS

- 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: Linux(Ubuntu), LaTex, Raspberry Pi, Adobe suite, Office suite
- Relevant courses with competitive academic records: Machine Learning(93), Digital image processing(92), Data structure(90),Computer Graphics(100), Big data analytics(87)