

# Jingjing YE

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## Educational Background

ShanghaiTech University, Shanghai, China

09/2015-06/2019

- Bachelor of Engineering, Electronic Information Engineering
- **GPA:** 3.06/4 **CS Related GPA:** 3.21/4
- **Relevant Courses:** Introduction to Information Science and Technology, Data Structures, Linear Algebra, Probability and Statistics, Database and Datamining, Computer Graphics, Basic Training of Scientific Research, Artificial Intelligence, Software Engineering

## Publications

❖ ***Finding Real-life Doppelgangers on Campus with MTCNN and CNN-based Face Recognition;*** Jingjing YE, Yilu ZHOU

**Conference:** The 18th Pre-ICIS Workshop on e-Business

**Content:** Use MTCNN do the face recognition; train a face detection model with Softmax and Center Loss as loss function.; extract feature and get similarity of faces. **Dataset:** LFW **Frame:** CAFFE

**Application:** combine art and technology; stimulate the society interest of CV ; misuse of celebrity photos in online stores

## Research Experience

**FashionDeepBlue China, directed by Yilu Zhou, Agnes Kubiak, 2019-Present**

1. **Dali Brush:** To customize the personalized clothes for the clients (blend the user-supplied elements with a stylish texture to create a new printing)
- Train model to determine the product (texture) is now in its infancy, fashion, or decay.

### 2. Labeling System:

- Users using this system can tag pictures according to the requirements of designer Agnes.

**The Color AI Lab, USA, directed by Yilu ZHOU, 2018**

- **Objective:** get the main color of garment from runway pictures, predict the future trend of color
  - **Duty:** human body recognition, portrait gouging, color clustering algorithm, skin color removal algorithm.
1. Removed the background: body recognition; get a mask; superimpose the original picture and the mask; cut out the human body, turned all pixels of the background black
  2. Used Kmeans++ to get the color clustering; selected the top six ones of the largest color;
  3. removed skin color based on YCrCb color space

**Gain:** results released in trend analysis report of 2018 Shanghai fashion week  
(Xinhua News Agency & FASHIONDEEPBLUE)

**AA Algorithm Accelerates Neural Network, directed by Yajun HA, 06-08/2018**

- **Objective:** To achieve the effect of accelerating the network, use AA algorithm to get which weights are not so important to the neural network in advance
- **Duty:** Set up Alex Net; processed experimental results and draw charts
- **AFFINE ARITHMETIC:** examined the influence of noise on the output results of neural network by adding noise to the weight, to determine whether this weight is important; cut off the excess weights to make the network lighter

## Working & Internship Experience

Developer, IT Department, SAIC - General Motors, Shanghai, China

08/2019-Present

**Job Content:** Back-end develop.

Develop the platform for all China dealers to manage their cars orders

Database: Oracle; Project-management tool: Maven; Storing and Mapping Framework: Mybatis

Front-End: spring boot

Language: Java; HTML; JAVASCRIPT

**Course TA, Web Text Mining TA of Summer School, ShanghaiTech University**

07/2019

**Job Content:** Gave lab courses to students; corrected homework and final exam papers;  
Assisted in answering questions about the project.

**Job Content:** Intelligent Monitoring for Comac Aircraft Manufacturing Workshop;  
 Built a database to store employee information, today's track and attendance;(Frame: Django)  
 Backend development: monitor live information and picture flow; write interface responds to front-end  
 Deployed to Comac factory server by docker.

### **Academic Projects**

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#### **AI Air Traffic Control**, Artificial Intelligence

Build models according to CCAR-93TM-R5; use Q-learning algorithm to train model which can direct plane's approach

**Result:** Use real time approach situation at Chengdu ShuangLiu Airport in 24 hours to test our model; Every flight has landed successfully without collision or blockage.

#### **Cloth Simulation**, Computer Graphics

Use Mass-Spring Model to simulate cloth; introduce force (gravity, wind force, elastic force) and collision (cloth-rigid body & self-collision) into the system.

**Result:** lively simulation of cloth blown by wind & drop on rigid body

### **Awards & Honors**

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| ✧ <b>Honorable Mention</b> , ICM(Interdisciplinary Contest In modeling ) , <b>twice</b> | 2017 & 2018 |
| ✧ <b>Outstanding Individual</b> of Annual Undergraduate Industry Practice               | 2017        |
| ✧ <b>Third Prize</b> in the Odyssey of the Mind, Jiaotong University                    | 2015        |

### **Competitions & Activities**

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| ❖ <b>Volunteer for</b> World Artificial Intelligence Conference, Shanghai, China                        | 07/2018    |
| ❖ <b>Volunteer for</b> ShanghaiTech Workshop on Emerging Devices, Circuits and Systems, Shanghai, China | 06/ 2018   |
| ❖ <b>Member</b> of Hackathon  | 2018       |
| ❖ <b>Member</b> of Tianchi Data, Alibaba Group  | 2017       |
| ❖ <b>Volunteer Teacher for</b> Poverty Alleviation Country Social Practice, Sichuan, China              | 07-08/2016 |

### **Computer Skills**

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- Skilled in Python, Java, Matlab, C++, VHDL
- OpenGL, Cafe, OpenCV, Oracle, SQL, Docker, Mybatis