Shaozhe Hao

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EDUCATION

Huazhong University of Science and Technology — Wuhan, Hubei, CN
B.S. in Automation | School of Artificial Intelligence and Automation — *Sep. 2017 - Now*
- GPA: **3.98**/4.0, Avg. Score: **92.9**/100, Rank: **2**/152
- **Oxford University** - Summer Program Abroad Fall 2018, Oxford, UK

RESEARCH

EEG-Based Individual Identification and Verification — Wuhan, Hubei, CN
Research Assistant | Mentor: Dongrui Wu — *Mar. 2019 - Mar. 2020*
- Used digital filter, Commen Spatial Pattern, k-NN, Neural Network, Signal2Image trying to establish a user authentication and identification method based on electroencephalogram (EEG) data.
- Concatenated different motor imagery EEG trials making a more separable feature to enhance the performance.
- For single time domain, the accuracy is between $94\% \sim 98\%$.

WORK & PROJECTS

Vizum Intership — Beijing, CN
Development Intern | Advisor: Xiaojian Dong — *Jan. 2020 - Feb. 2020*
- Car License Plate Precise Detection: developed a system in Python dependently, which can detect car license plates robustly, regardless of angle, lighting, cover or other noises and draw the line along the contour of plates.
- Used YOLO for global detection and traditional image processing methods, such as region Expand, for sharp contour extraction.

Camera Detection System — Wuhan, Hubei, CN
Curriculum Design — *Nov. 2019 - Dec. 2019*
- An MFC executable file for camera detection in C++, using with two lighting modes - infrared light and natural light.
- Use threshold segmentation, corner detection, region expend and candidate points selection to mark the location of cameras in the surroundings.

Deloitte Digital Innovation Camp — Wuhan, Hubei, CN
Commercial Match — *Aug. 2019*
- A Matlab GUI program of an analysis system to portrait e-commerce company profiles.
- Rated a company from freight, popularity, price, diversity, and overall score, 5 aspects. Respectively designed the different algorithm for each aspect after processing the raw data of 6 e-commerce companies from Internet.

2018 World Cup Information Inquiry System — Wuhan, Hubei, CN
Curriculum Design — *Sep. 2018 - Nov. 2018*
- A GUI program for an information aggregation system for 2018 world cup in C, developed on Borland C++ compiler and constructed from basic SVGA and I/O interface without external images.
- Functions: register and login, search for teams, players and games, check news and play videos on the user side; and administrate users, revise information and update news on the administrator side.

HONORS & AWARDS

- UCLA Cross-disciplinary Scholars in Science and Technology Scholarship — *2020*
- National Scholarship of China (**2%**) — *2018, 2019*
- Special A of Huazhong University of Science and Technology (**5%**) — *2018*
- Scholarship for Academic Performance — *2018*

SKILLS & CERTIFICATES

Languages	C/C++, Python, Matlab
Tools	MS Office, LaTeX, Photoshop, PyTorch
English	TOEFL: 104
Certificates	MCM/ICM S Award, Sri Lanka International Volunteer
	Coursera: machine learning, python data structures