

GUAN-DE WU

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EDUCATION

Zhejiang University, Hangzhou

Sept 2016 – Present

B.Sc. in Software Engineering

College of Computer Science and Technology

Lishui High School, Lishui

Sept 2013 – June 2016

Senior High School.

PROJECTS

Chart Polygraph Detection

Supervised by Prof. Kwan-liu Ma

UC Davis

August 2019 - Present

In the project, we are trying to identify the deceptive behaviors of multiple charts by training end-to-end deep learning model on bitmap images. We built a deceptive chart corpus by d3.js and proposed a relation network combining both labels and image content which currently achieved a more than 0.9 recall rate and 0.85 F1 score. I am carrying out the project on my own and still trying to improve the models.

Machine Visualization Literacy

Supervised by Prof. Kwan-liu Ma

UC Davis

July 2019 - Present

In this project, we investigate the behaviors of deep learning models for interpreting data visualization to make it clear whether deep learning models truly interpret visualization or just memorize training samples. I am carrying out the project with the help of a senior Ph.D student in VIDI lab.

EvoLane: EvoLane: Interactive Visual Assessment of Bicycle Lanes Planning

Supervised by Prof. Yingcai Wu and Prof. Guodao Sun

UC Davis

October 2018 - March 2019

We address the issue of integrating various factors in bicycle planning by proposing a visual analysis system named EvoLane that facilitates in-depth analysis of bike lane planning process. More specifically, we utilize and improve a bicycle lane planning model that can quantitatively characterize spatial bicycle trajectory data as well as the importance of a specific POI category or POI category pairs. A visual interface with multiple interactive and coordinated views is further presented to tightly integrate with and offer feedback to the model. We further demonstrate the usefulness of our system based on case studies with real-world cycling data. In this project, I am the second author of the submission and responsible for the back-end programming as well as algorithm design.

AWARDS

China Collegiate Computing Contest — Artificial Intelligence Innovation Contest

Third Prize in East-China Region

EXPERIENCES

UC Davis, VIDI Lab

Visiting Student of GREAT Program

July 2019 - September 2019

When visiting VIDI lab in UC Davis, I carried out two projects related to AI for Visualization under the supervision of Prof. Kwan-liu Ma and with the help of a senior Ph.D student Oh-hyun Kwon. The projects are mentioned above.

ZJUVIS Group

Undergraduate Student

September 2018 - May 2019

When working in ZJUVIS Group supervised by Prof. Yingcai Wu, I carried on a urban visualization project called Evolane. In this project, I am responsible for algorithm design, back-end programming, interactive UI design and part of paper writing. To investigate the users' domain knowlege in urban structure, I designed a PoI-based matrix algorithtm.

Hangzhou Dayuan Capitol

Intern in Quantitative Finance

November 2017 - April 2018

ACTIVITIES

Chu Kochen College Student Union

September 2016 - June 2017

Director in Department of Publicity and Web

- Responsible for the daily work and important projects of Department of Publicity and Web.
- Conducting group training for freshmen of the department.
- Working as a full-stack developer and responsible for group training in web development.

SKILLS

Machine Learning

Experience with developing deep learning models like LSTM, Transformer Relation Network and so on by Pytorch. In my undergraduate study, I have conducted several deep learning projects including developing a relation network model in the project chart polygraph, as well as multiple course projects including source code authorship by BiLSTM, text summarization by copy mechanism.

Computer Programming

Competent with front-end and back-end programming in multiple programming languages including Javascript, Java, Python and PHP. Also experienced with data visualization and data analysis.

English

Gifted with a fluent English and achieved 95 in IBT test (still preparing the next examination)

Teamwork

Have worked in groups of different types like student union and research group as both participant and leader.

STRENGTHS

Hard-working & Good academic performance(GPA 3.87/4)

Coding & Communication