

LINPING YUAN

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EDUCATION

Hong Kong University of Science and Technology	Hong Kong, China
Ph.D. student supervised by Prof. Huamin Qu	Sep 2019 - present
Xi'an Jiaotong University (XJTU)	Xi'an, China
B.Eng. in Software Engineering	Aug 2015 - Jun 2019
<ul style="list-style-type: none">• GPA: 92.02/100 or 3.96/4.30 (rank: 1/68)	

SELECTED HONORS & AWARDS

• National Scholarship (three times)	2016, 2017, 2018
• Silver Medal in ACM-ICPC China Invitational Contest Shaanxi Site (8/100)	2017
• Silver Award in Innovation and Entrepreneurship Competition of XJTU (top 20% in XJTU)	2017
• First Prize in China Undergraduate Mathematical Contest (top 20% in Shaanxi)	2016, 2017

RESEARCH EXPERIENCE

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	Shenzhen, China
Mentored by Dr. Wei ZENG	Jan – Mar 2019

Project: *Extracting Colormaps From Visualization Charts Based on CNN*

- Learned basic knowledge about deep learning and its application in Computer Vision
- Learned TensorFlow and implemented a model based on a former work
- Conducted experiments and trained the CNN model

VisLab, Hong Kong University of Science and Technology	Hong Kong, China
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Supervised by Prof. Huamin QU Feb – Mar, Aug – Nov 2018

Project: *Exploring Speech Strategies with Textural and Acoustic Features based on a visual analytics approach*

- Conducted three expert interviews and obtained experts' requirements
- Extracted prosodic features from each TED talk in phonetic-, word-, sentence-level
- Proposed a visual analytics system for users to explore speech strategies combining prosodic and textual features

Project: *Comparison among Event Sequences in Different Levels of Details based on Visualization*

- Built part of the visual analytics system using front-end libraries like d3.js and vue.js
- Collected four suitable datasets and processed them using Python
- Imported the datasets into the system to find stories and wrote the case study part in the paper

PUBLICATIONS

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- **Linping Yuan**, Wei Zeng, Siwei Fu, Zhiliang Zeng, Chiwing Fu, and Huamin Qu. Deep Colormap Extraction from Visualizations. *IEEE Proceedings of CHI 2020* (on submission)
 - **Linping Yuan**, Yuanzhe Chen, Siwei Fu, Aoyu Wu, and Huamin Qu. SpeechLens: A Visual Analytics Approach for Exploring Speech Strategies with Textural and Acoustic Features. *IEEE International Conference on Big Data and Smart Computing*

INTERNSHIP EXPERIENCE

Xi'an Bianbiangou E-commerce Limited Liability Company	Sep 2017 – Jan 2018
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- Developed an ordering system for a real canteen and delivered to the canteen
- Took GUI design, user experience and interaction into consideration deliberately; implemented in C++ with the framework Qt; iterated improvement; related to database, network, Bluetooth, printer; improved system design and structure with code refactoring techniques

CONTEST EXPERIENCES

China Undergraduate Mathematical Contest in Modeling	Summer 2016, Summer 2017
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- Improved modeling and problems solving ability; cultivated the ability to do literature surveys, read and write papers; learnt and applied various models and algorithms like clustering; got much practice of MATLAB and SPSS

China Collegiate Computing Contest & The 2017 ACM-ICPC China Invitational Contest	Nov 2016 - May 2017
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- Spent more than half a year and trained hard for them from a beginner in the area of programming contest
- Comprehended common algorithms especially graph-related algorithms more deeply

SKILLS

Programming Languages and Tools: C/C++, Java, Python, MATLAB, JavaScript, GIT, Linux, LaTeX

Frameworks: Qt, TensorFlow, PyTorch, vue.js, d3.js