

# FULING SUN

Data Visualization / Human-Computer Interaction

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## EDUCATION

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### Tongji University

09. 2019 – 06. 2022 (*expected*)

Master in Data Visualization

Advisor: [Prof. Nan Cao](#), [Prof. Qing Chen](#)

### University of Electronic Science and Technology of China

09. 2015 – 07. 2019

Bachelor in Software Engineering

Top 1 in major, National Scholarship 2017, 2018

## PUBLICATIONS

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Qing Chen, **Fuling Sun**, Xinyue Xu, Zui Chen, Jiazhe Wang, Nan Cao

### VizLinter: A Linter and Fixer Framework for Data Visualization

*IEEE Transactions on Visualization and Computer Graphics (IEEE VIS 2021)*. 2021, 28(1): 206-216.

[Link](#) 🔗

Danqing Shi, **Fuling Sun**, Xinyue Xu, Xingyu Lan, David Gotz, Nan Cao

### AutoClips: An Automatic Approach to Video Generation from Data Facts

*Computer Graphics Forum (EuroVis 2021)*. 2021, 40(3): 495-505.

[Link](#) 🔗

Shunan Guo, Zhuochen Jin, **Fuling Sun**, Jingwen Li, Zhaorui Li, Yang Shi, Nan Cao

### Vinci: An Intelligent Graphic Design System for Generating Advertising Posters

*In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems (SIGCHI2021)*.

[Link](#) 🔗

Danqing Shi, Xinyue Xu, **Fuling Sun**, Yang Shi, Nan Cao

### Calliope: Automatic Visual Data Story Generation from a Spreadsheet

*IEEE Transactions on Visualization and Computer Graphics (IEEE VIS 2020)*. 2020, 27(2): 453-463.

[Link](#) 🔗

## EXPERIENCE

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### Intelligent Big Data Visualization Lab (iDVx Lab) *Lab Member*

09. 2019 – Present

- Designed and implemented visualization techniques and algorithms to assist users to build visualizations ([VizLinter](#)) and tell stories with visualizations ([Calliope](#), [AutoClips](#)).
- Participated in over 8 R&D projects with front-end development and back-end services and published 4 top-tier conference papers.

### Ant Group *Front-end Engineer (intern)*

07. 2021 – 09. 2021

- Refactored the open-source automatic visualization recommendation project, [Chart-Advisor](#) and developed new features including customization of charts and design rules.
- Designed [antv-spec](#), a declarative grammar that supports various technology stacks of [AntV](#), currently supporting statistical charts and graph definition.
- Implemented Chart Linter in the internal Business Intelligence tool to assist analysts in building visualization effectively.

### SAP Global Cloud Service Center *DevOps Engineer (intern)*

01. 2018 – 07. 2018

- Participated in the ChatOps(chatbot with DevOps) project, to shorten the developing and the operating work flow of engineers and enable monitoring of DevOps tools in chat clients such as Slack.

## SELECTED AWARDS

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**Kwang-Hua Scholarship:** Tongji University, 2021

**Best Poster Honorable Mention:** ChinaVis, 2021

**Best Poster:** CCF GAMES, 2021

**Excellent Graduate:** UESTC, 2019

**National Scholarship:** 2018, 2017

**Meritorious Award of MCM/ICM:** 2018

**People's First Class Scholarship:** UESTC, 2016

## SELECTED PROJECTS

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**vega-lite-linter - A linting and fixing tool for visualization**  01. 2021 – 04. 2021

- A framework to detect violated rules of visualization in Vega-Lite syntax and suggest solutions.
- Designed algorithms to detect violated rules and suggest optimal solutions.

**Calliope - An intelligent data story platform**  01. 2020 – 09. 2020

- An intelligent data auto-insight platform for creating, editing, and sharing visual data stories.
- Developed static visualization and its animation; developed two visual story layouts (storyline, fact-sheet) and corresponding interactions.

**Data Video - A online data video editor**  09. 2019 – 12. 2019

- An online tool for creating data videos with charts, illustration, text editing and video export.
- Developed static visualization and corresponding animation design, and implemented the video export function.

**Vinci - An Intelligent Graphic Design System for Product Posters** 12. 2018 – 03. 2019

- A system automatically generate a series of product posters with a product picture and descriptions.
- Developed algorithms for automated text layout and accessible font-color adaptation in the posters.

### Others

◦ **Ecological Balance Simulator**  05. 2020

An interactive project simulating human behaviors' effect on the ecosystem with interaction and visualization.

◦ **How Do We Leak Personal Privacy?**  12. 2019

A data story summarizing the ways that user privacy got leaked by phones and their potential hazards.

## SKILLS

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**Languages:** Python, JavaScript/TypeScript, HTML, CSS

**Tools:** D3.js, Node, React, MongoDB, L<sup>A</sup>T<sub>E</sub>X