

# Fangfang Sheng

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## MISSION

Seeking to leverage technical and professional expertise to effectively help user understand the data by doing the actual research and reporting it. Contribute to Human-computer interaction (HCI), Data Visualization and Personal Health.

## EDUCATION

### Northeastern University

*Master's Degree in Bioinformatics*

*Relevant Coursework: Statistics for Bioinformatics, Algorithm, Machine Learning, Complex Network*

GPA: 3.8/4.0

**Boston, MA**

*2019-Present*

### University of California Davis

*Global Study Program*

GPA: 3.6/4.0

*Relevant Coursework: Programming and Problem Solving, Machine Dependent Prog, Applied Statistics for Biological Sciences*

**Davis, CA**

*September 2016-June 2017*

### Jiangnan University

*Bachelor of Engineering in Food Science & Engineering*

GPA: 3.5/4.0

**Wuxi, China**

*June 2017*

## PUBLICATION

[1] Yixuan Zhang, Sara Di Bartolomeo, **Fangfang Sheng**, and Cody Dunne. "Evaluating alignment approaches in superimposed time-series and temporal event-sequence visualizations". In: Proc. VIS 2019 Short Papers. Vol. 25. 1. Accepted to IEEE VIS '18 (InfoVis). 2019, pp. 512-522.

## RESEARCH EXPERIENCE

### Northeastern University

*Data Visualization Lab Research Assistant*

**Boston, MA**

*April 2019-Present*

- Conduct between-subjects study on Amazon Mechanical Turk (MTurk), in-person interviews in NU lab
- Use statistic methods (t test, one-way Anova and etc.) to assess participants' performance for several temporal event sequence visualizations
- Write data analysis report on Jupyter Notebook
- Co-authored on papers and submit to conferences

## INDUSTRY EXPERIENCE

### Inspur Group Co., Ltd.

*ERP Consultant*

**Beijing, China**

*October 2017-July 2018*

- Tested and upgraded company financial data visualization software, identified problems and implemented solutions
- Ensured clear communication between clients and software developers
- Conducted training to clients and provided relevant technical support
- Applied MYSQL language to import and process data for financial reports
- Streamed Oracle Database maintenance with daily imports and backup

## EXTRACURRICULAR EXPERIENCE

### Novartis – Academia Hackathon 2019

*Project: Reimagining Pathway Similarity Networks*

**Cambridge, MA**

*August 2019*

- Collected data from publicly databases, embedded pathways, implemented analysis, and designed network based visualizations to connect pathways
- Built a pipeline for early discovery questions of pathway similarity, pathway labeling, and inferred associations, including drug-repurposing by similarity, completed a case study involving pathway clustering

### JNU Honors School of Innovation Quality Training Program HKU SPACE ICB 2015 Winter Class

*Participant*

**Hong Kong, China**

*March 2015*

- Gained experience in marketing and brand management, influence and negotiation
- Completed a corporate R&D report, business strategic analysis, market plan, and financial analysis
- Assessed fund operations, analyzed investment strategies in school's Personal Investment and Stock Trading contest

## SERVICE AND VOLUNTEERING

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<b>Volunteer</b> at Bridge International Boston	<i>May 2019- Present</i>
<b>Dining Service Worker</b> at University of California Davis	<i>Jan-June 2017</i>
<b>Exhibition Guide</b> for Mobile World Congress Shanghai 2016	<i>June -July 2016</i>
<b>Volunteer</b> at Wuxi International Marathon.	<i>March 2015, 2016</i>
<b>Vice President</b> at Student Career Development Association at Jiangnan University	<i>2013-2015</i>

## TECHNICAL SKILLS/ CERTIFICATIONS

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Coding and Development: Developed tools in **Python**, SQL, Perl, HTML5, CSS3, D3.js, C, NetworkX, and LATEX  
Visualizations and Analysis: Developed visualizations using Matplotlib, Seaborn and Gephi. Some experience with Sketch.  
Report on **Jupyter Notebook**, R Markdown.  
Techniques: **Machine Learning**, Active Learning  
User Studies: Semi-structured **in-person evaluations**, Amazon **Mechanical Turk** Studies.  
Language: Native in **Mandarin**, Fluent in **English**  
Certificates: The Learning Python for Data Analysis and Visualization, Deep Learning and NLP