Yu Fu

Ph.D. Candidate in Human-Centered Computing

School of Interactive Computing, Georgia Tech | Atlanta, GA, USA

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Education

Georgia Institute of Technology (Georgia Tech)   *Atlanta, GA, USA*

Ph.D. in Human-Centered Computing   *Aug. 2020 - Present*

- Advisor: Prof. John Stasko
- Research Lab: Information Interfaces Group

George Washington University   *Washington, D.C., USA*

M.S. in Electrical Engineering   *Aug. 2013 - May 2015*

Hunan University   *Changsha, China*

B.S. in Electronic & Information Engineering   *Aug. 2009 - Jun. 2013*

Experience

Georgia Institute of Technology   *Atlanta, GA, USA*

Graduate Research/Teaching Assistant   *Aug. 2020 - Present*

Tableau Research - Salesforce   *Seattle, WA, USA*

Research Intern   *May 2024 - Aug. 2024*

- Designed and developed *DataWeaver*, a novel bidirectional authoring tool that integrates narrative and visualization composition.
- Conducted a user study to validate the tool's effectiveness and gather feedback for improvements.
- Filed patents for *DataWeaver* and submitted a CHI 2025 paper based on the system and study findings.

Adobe Research   *San Jose, CA, USA*

Research Scientist/Engineer Intern   *May 2023 - Aug. 2023*

- Developed *Aletheia*, an automated fact-checking tool for verifying data-driven claims through effective data evidence presentation.
- Designed visualizations and data tables to communicate evidence and conducted user studies to assess their impact.
- Published and presented the paper at ACM UIST 2024.

Tencent (4 yrs) and Titan Sports(1 yr)   *Washington D.C. & Houston,TX*

NBA Journalist / Basketball Data Analyst   *Sep. 2015 – Aug. 2020*

- Covered NBA teams (Houston Rockets and Washington Wizards) as a beat writer.
- Conducted exclusive interviews with NBA players and front-office executives.
- Authored basketball analyses and stories, reaching millions of fans across major platforms.

Peer Reviewed Publications

2024	UIST	**Yu Fu**, Shunan Guo, Jane Hoffswell, Victor S. Bursztyn, Ryan Rossi, John Stasko *"The Data Says Otherwise": Towards Automated Fact-checking and Communication of Data Claims* *Proceedings of the 37th ACM Symposium on User Interface Software and Technology (UIST '24)*, Article 134, 1–20.
2024	VIS	**Yu Fu**, John Stasko *HoopInSight: Analyzing and Comparing Basketball Shooting Performance Through Visualization* *IEEE Transactions on Visualization and Computer Graphics*, vol. 30, no. 1, pp. 858-868, Jan. 2024 *Paper presented at IEEE VIS'23*
2024	TVCG	**Yu Fu**, John Stasko *More Than Data Stories: Broadening the Role of Visualization in Contemporary Journalism* *IEEE Transactions on Visualization and Computer Graphics*, vol. 30, no. 8, pp. 5240-5259, Aug. 2024
2022	CHI	**Yu Fu**, John Stasko *Supporting Data-Driven Basketball Journalism through Interactive Visualization* *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*, ACM, Article 598, pp. 1–17

In Submission

2025	CHI	**Yu Fu**, Dennis Bromley, Vidya Setlur
		DataWeaver: Authoring Data-driven Narratives through Bidirectional Visualization and Text Composition
		Under Review at CHI Conference on Human Factors in Computing Systems

Short Papers and Poster

2021	VIS	Hayeong Song, **Yu Fu**, Bahador Saket, John Stasko
		Understanding the Effects of Visualizing Missing Values on Visual Data Exploration
		2021 IEEE Visualization Conference (VIS), pp. 161-165

2024	CASSIS	Xing Wang, Konstantinos Pelechrinis, **Yu Fu**, Chunyang Huang, Jianchong Shao, Zitian Tang, Miguel Gomez, Shaoliang Zhang
		HoopPad: A Controlled Defense Simulation with Masking Prompt
		The Cascadia Symposium on Statistics in Sports (CASSIS)

2025	SIGCSE	Nazanin Tabatabaei Anaraki, Taneisha Ng, Gaurav Verma, **Yu Fu**, Martin Oconnell, Matthew Hull, Susanta Routray, Mahdi Roozbahani, Duen Horng Chau
		Managing Project Teams in an Online Class of 1000+ Students
		ACM Technical Symposium on Computer Science Education (SIGCSE)

Teaching Experience

Information Visualization (CS 7450)
Georgia Tech

CO-INSTRUCTOR/TEACHING ASSISTANT
Spring 2023, Spring 2024

- Developed and prepared course materials and programming tutorials for a new graduate-level course.
- Delivered lectures on D3.js, covering key concepts and practical applications in data visualization.
- Assisted in designing homework assignments and coding exercises to reinforce hands-on learning.

Data and Visual Analytics (CSE 6242 Online)
Georgia Tech

GRADUATE TEACHING ASSISTANT
Fall 2023, Fall 2024

Data Visualization Principles (CS 6730)
Georgia Tech

GRADUATE TEACHING ASSISTANT
Spring 2021

Introduction to Information Visualization (CS 4460)
Georgia Tech

GRADUATE TEACHING ASSISTANT
Fall 2020

Academic Service

PAPER REVIEW
- VIS (2023, 2024, highly useful 2x), CHI (2023-2025, special recognition 2x), EuroVis (2024), ChinaVis (2023), TOCHI (2023), SIGGRAPH Posters (2024).

CONTEST JUDGE
- PacificVis (2024) Visual Data Storytelling Contest.

Talks

Data claim fact-checking and communication
ACM UIST 2024

THE DATA SAYS OTHERWISE – TOWARDS AUTOMATED FACT-CHECKING AND COMMUNICATION OF DATA CLAIMS
Pittsburgh, PA, USA

Role of visualization in journalism *IEEE VIS 2024*
MORE THAN DATA STORIES: BROADENING THE ROLE OF VISUALIZATION IN CONTEMPORARY JOURNALISM *St. Pete Beach, FL, USA*

Visual techniques for analyzing and comparing players' shooting performance *IEEE VIS 2023*
HOOPINSIGHT: ANALYZING AND COMPARING BASKETBALL SHOOTING PERFORMANCE THROUGH VISUALIZATION *Melbourne, Australia*

Interactive visualization systems for data-driven basketball journalism *ACM CHI 2022*
SUPPORTING DATA-DRIVEN BASKETBALL JOURNALISM THROUGH INTERACTIVE VISUALIZATION *New Orleans, LA, USA*

Honors & Awards

Outstanding Journalist Award (3x) *Houston, TX, USA*
TENCENT SPORTS *2015–2019*

Special Scholarship *Changsha, China*
HUNAN UNIVERSITY *2012*

Skills

Languages	**Python**, **JavaScript**, R, MATLAB, C, SQL, HTML/CSS
Frameworks and Libraries	**D3.js**, **React**, **Redux**, Material UI, jQuery, PySpark, spaCy
Tools	**Tableau**, Adobe Suite, Git, Qualtrics, Jupyter Notebooks, RStudio, LaTeX, GitHub Actions
Research Methods	**Human-Centered Design**, **Visualization Design**, **Usability Testing**, **User Studies**, Qualitative Research, Mixed Methods