

Yu Fu

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RESEARCH INTERESTS

My research interests lie in information visualization, data-driven journalism, sports analytics, and HCI. Specifically, I have studied how to support basketball analytics and data-driven sports journalism through interactive visualization. My current research is focused on understanding what role visualization can play in the combat against misinformation and developing tools that leverage visual analytics and NLP to help investigative journalists as well as the general public.

EDUCATION

AUGUST 2020 – PRESENT

PH.D. IN HUMAN-CENTERED COMPUTING, GEORGIA INSTITUTE OF TECHNOLOGY

Research area: information visualization. Advised by Dr. John Stasko

AUGUST 2013 – MAY 2015

M.S. IN ELECTRICAL ENGINEERING, GEORGE WASHINGTON UNIVERSITY

AUGUST 2009 – JUNE 2013

B.S. IN ELECTRONIC & INFORMATION ENGINEERING, HUNAN UNIVERSITY

PUBLICATIONS

- Yu Fu and John Stasko. 2022. **Supporting Data-Driven Basketball Journalism through Interactive Visualization**. In CHI Conference on Human Factors in Computing Systems (**CHI' 22**), <https://doi.org/10.1145/3491102.3502078>
- Hayeong Song, Yu Fu, Bahador Saket, and John Stasko. "Understanding the Effects of Visualizing Missing Values on Visual Data Exploration." In 2021 IEEE Visualization Conference (**VIS' 21**), pp. 161-165. IEEE, 2021., doi: 10.1109/VIS49827.2021.9623328.

EXPERIENCE

MAY 2021 – PRESENT

RESEARCH ASSISTANT, GEORGIA INSTITUTE OF TECHNOLOGY

Information Interfaces Group supervised by Dr. John Stasko

- Conducted interdisciplinary research on Visualization + Journalism, including a review study to enhance mutual understanding and a design study to support sports journalists
- Designed and developed multiple interactive visualization systems, including domain-driven dashboards and visual text analytic systems for corpus analysis

SEPTEMBER 2015 – AUGUST 2020

NBA JOURNALIST/BASKETBALL DATA ANALYST, TENCENT & TITAN SPORTS

- Covered Houston Rockets and Washington Wizards as column writer
- Conducted regular/exclusive interviews with NBA players/front office staff
- Authored data-driven basketball analysis and storytelling

MARCH 2012 – MARCH 2013

ELECTRICAL ENGINEER, HUNAN UNIVERSITY FSAE RACING CAR TEAM

RECENT PROJECTS

Jigsaw-lite	Visual text analytic system that assists in text mining and corpus analysis
HoopXright	interactively visualizing NBA players' shooting performance, with emphasis on multidimensional spatial comparison
NBA GameViz	interactively visualizing NBA game information and advanced statistics to support novel narrative construction and insight communication
NBA LineupViz	interactively visualizing NBA teams' lineup performance, with emphasis on advanced statistics and playing time
SongBridge	interactive graph visualization interface that provides visual experiences for multiple music listeners to find 'bridge songs' that connect their song lists
BBallIndex Player Profile Visualizer	interactive visualization interface that demonstrates advanced indexes of player performance
ShotQuality	participatory design project with ShotQuality
NBA Traveling Meter	interactive visualization interface that animates teams' traveling routes
Who didn't vote for me	interactively visualizing MVP Voting Results

SKILLS

Languages	HTML/CSS, JavaScript, Python, R, Swift, MATLAB, C, SQL
Frameworks and Libraries	D3.js, React, jQuery, Svelte, PySpark, spaCy
Tools	Tableau, Adobe Suite, Git, Qualtrics, XCode Storyboards, RStudio

CERTIFICATES

APRIL 2020 – JUNE 2020
INFORMATION VISUALIZATION (4 ONLINE COURSES), NEW YORK UNIVERSITY
JULY 2017 – OCTOBER 2017
DATA SCIENCE (10 ONLINE COURSES), JOHNS HOPKINS UNIVERSITY

TEACHING

- Fall 2020 | Graduate Teaching Assistant for Intro. to Information Visualization (CS4460)
- Spring 2021 | Graduate Teaching Assistant for Data Visualization: Principles & Applications (CS 6730)

AWARDS

- Outstanding Journalist Award (3 times Tencent)
- Best Engine Tuning Award (Formula SAE-China 2012)
- First Place in Straight-Line Acceleration (Formula SAE-China 2012)
- Special Scholarship (Hunan University 2012)
- College Basketball League Championship & Most Valuable Player (Hunan University 2011)
- Freshmen basketball tournament Championship & Most Valuable Player (Hunan University 2009)