Grace Guo

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I am interested in research at the intersection of AI, learning sciences and human-computer interaction. My current projects focus on explainable AI, visualization by demonstration, and visual analytics.

Education

Georgia Institute of Technology *Atlanta, GA*
PHD IN HUMAN-CENTERED COMPUTING *Current*
- Advised by Dr. Alex Endert

Carnegie Mellon University *Pittsburgh, PA*
BS IN COGNITIVE SCIENCE AND HUMAN-COMPUTER INTERACTION *2018*
- QPA: 3.91, Dean's List High Honors

Work Experience

Georgia Institute of Technology, School of Interactive Computing *Atlanta, GA*
GRADUATE RESEARCH ASSISTANT *Aug 2019 - Current*
- Advised by Dr. Alex Endert

Pacific Northwest National Laboratory *Richland, WA*
RESEARCH INTERN, NATIONAL SECURITY INTERNSHIP PROGRAM *May. 2020 - Aug 2020*
- Designed and implemented DietParselantro, a Jupyter widget for textual data classification
- Implemented Visualization and AI for Natural Experiments (VAINE), an interactive system for visualizing and verifying the results of clustering algorithms for natural experiments

Singapore University of Technology and Design *Singapore*
RESEARCHER, META-DESIGN LAB *Aug. 2018 - Aug. 2019*
- Studied the role of data visualizations in industry decision making
- Created an open source svelte visualization toolkit for flexible, componentized data visualization

Publications

VAINE: Visualization and AI for Natural Experiments
GRACE GUO, MARIA GLENSKI, ZHUANYI SHAW, EMILY SALDANHA, ALEX ENDERT, SVITLANA VOLKOVA, DUSTIN ARENDT
IEEE Visualization Conference (VIS). 2021.

A Survey of Human-Centered Evaluations in Human-Centered Machine Learning
FABIAN SPERRLE, MENNATALLAH EL-ASSADY, GRACE GUO, RITA BORGO, DUEN HORNG CHAU, ALEX ENDERT, DANIEL KEIM
Computer Graphics Forum (Eurovis). 2021.

Teaching

CS4873: Computing, Society and Professionalism *Atlanta, GA*
GEORGIA INSTITUTE OF TECHNOLOGY *Summer 2021*

CS7450: Information Visualization *Atlanta, GA*
GEORGIA INSTITUTE OF TECHNOLOGY *Fall 2020*

Skills

Languages	Python 2, Python 3, Javascript, C
Front-End Frameworks and Libaries	Vue, Svelte, React, D3
Tools	Git, Jupyter, Adobe Suite