

GUAN-DE WU

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EDUCATION

New York University, New York, USA

Jan 2021 - June 2025

Ph.D. in Computer Science (**GPA:3.94/4**)

Zhejiang University, Hangzhou, China

Sept 2016 - June 2020

B.Eng. in Software Engineering (**GPA:3.87/4**)

College of Computer Science, Zhejiang University

SELECTED PUBLICATION

Guande Wu, Chen Zhao, Claudio Silva, He He. Your Co-Workers Matter: Evaluating Collaborative Capabilities of Language Models in Blocks World. ***ACL 2024 (Findings)*** [\[PDF\]](#)

Guande Wu, Jing Qian, Sonia Castelo Quispe, Shaoyu Chen, Joo Rulff & Claudio T. Silva (2024). ARTiST: Automated Text Simplification for the Task Guidance in Augmented Reality. ***CHI 2024***.

Guande Wu, Shunan Guo, Gromit Chen, Jane Hoffswell, Gromit Yeuk-Yin Chan, Ryan Rossi & Eun-ye Koh. Socrates: Data Story Generation via Adaptive Machine-Guided Elicitation of User Feedback. ***VIS 2023*** [\[PDF\]](#)

Sonia Castelo Quispe, Joo Rulff, Erin McGowan, Bea Steers, **Guande Wu**, Shaoyu Chen, Iran Roman, Roque Lopez, Ethan Brewer, Chen Zhao, Jing Qian, Kyunghyun Cho, He He, Qi Sun, Huy T. Vo, Juan Pablo Bello, Michael Krone, Claudio Silva. ARGUS: Visualization of AI-assisted Task Guidance in AR. ***VIS 2023, Best Paper Honorable Mentions*** [\[PDF\]](#)

Qing Chen, Nan Chen, Wei Shuai, **Guande Wu**, Zhe Xu, Hanghang Tong, Nan Cao. Calliope-Net: Automatic Generation of Graph Data Facts via Annotated Node-link Diagrams. ***VIS 2023*** [\[PDF\]](#)

Guande Wu, Jianzhe Lin & Claudio T. Silva. IntentVizor: Towards Generic Query Guided Interactive Video Summarization. ***CVPR 2022*** [\[PDF\]](#)

INTERNSHIP

Applied Scientist Intern, Amazon AWS

AWS Bedrock Team

May 2024 - August 2024

Working towards efficient LLM fine-tuning with LoRA and distillation.

Research Scientist Intern, Adobe Research

Human-AI Collaborative Data Story Generation

May 2022 - August 2022

Designed a workflow for generating data stories that involved collaboration between humans and artificial intelligence through conversation recommendation.

Research Intern, Data Knowledge Intelligence Group, Microsoft Research Asia

Azure Incident Management System Analysis

September 2019 - March 2020

Optimized the incident discussion process by NLP techniques and visual analytics.

SERVICE

Reviewer & PC Member: ACM CHI, UIST, ISMAR, ACM IMWUT, AAAI, IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Circuits and Systems for Video Technology, ACM Transactions on Intelligent Systems and Technology, VIS alt.vis, Chinese CHI

PROJECTS

Perceptually-enabled Task Guidance [\[Link\]](#)

Funded by Defense Advanced Research Projects Agency (DARPA) of US DOD

Contributing to the AI-empowered user interface in AR.

RESEARCH EXPERIENCE

Visiting Undergraduate Researcher, VIDI Lab, University of California-Davis

AI For Visualization, Supervised by Prof. Kwan-liu Ma, IEEE Fellow

July 2019 - September 2019

- Researched on machine visualization literacy, in which I investigated the behaviors of deep learning models for data visualization and its effects on interpretability.

Undergraduate Researcher, ZJUIDG Group, Zhejiang University

Urban Visualization, Supervised by Prof. Yingcai Wu

October 2018 - March 2019

- Developed an urban visualization application called Evolane which provides in-depth high-efficiency multi-factor analysis for the bike lane planning process.

- Deployed an Android app for interactive table-tennis game annotation.

AWARDS

Third Prize in East-China Region 2019

China Collegiate Computing Contest — Artificial Intelligence Innovation Contest

Scholarship for Outstanding Merits (2017, 2018, 2019)

NYU Tandon SoE Fellowship

ACTIVITIES

Director, Department of Publicity and Web

September 2016 - June 2017

Chu Kochen College Student Union, Zhejiang University

- Led a team consisting of more than 20 people.
- Advertised several college-level events

SKILLS

Computer Programming

- Full-stack developer (React.js, d3.js, Python, C++) - Deep Learning (Pytorch, Detectron)

Languages

English (Fluent), Madarian Chinese (Native)

Teamwork

Worked as a leader in social activities and mentored master students in school.

FULL PUBLICATIONS

- Chenyi Li, **Guande Wu**^{*}, Gromit Yeuk-Yin Chan, Dishita G Turakhia, Sonia Castelo Quispe, Dong Li, Leslie Welch, Claudio Silva, Jing Qian. Satori: Towards Proactive AR Assistant with Belief-Desire-Intention User Modeling. ***Equal Contribution. To Appear on ACM CHI 2025.** [\[PDF\]](#)
- Shaoyue Wen, Michael Middleton, Songming Ping, Nayan N Chawla, **Guande Wu**, Bradley S Feest, Chihab Nadri, Yunmei Liu, David Kaber, Maryam Zahabi, Ryan P McMahan, Sonia Castelo, Ryan Mckendrick, Jing Qian, Claudio Silva. AdaptiveCoPilot: Design and Testing of a NeuroAdaptive LLM Cockpit Guidance System in both Novice and Expert Pilots. **To Appear on IEEE VR 2025.** [\[PDF\]](#)
- Guande Wu**, Chen Zhao, Claudio Silva, He He. Your Co-Workers Matter: Evaluating Collaborative Capabilities of Language Models in Blocks World. *ACL 2024 (Findings)* [\[PDF\]](#)
- Sonia Castelo, Joao Rulff, Parikshit Solunke, Erin McGowan, **Guande Wu**, Iran Roman, Roque Lopez, Bea Steers, Qi Sun, Juan Bello, Bradley Feest, Michael Middleton, Ryan Mckendrick, Claudio Silva. HuBar: A Visual Analytics Tool to Explore Human Behaviour based on fNIRS in AR guidance systems. *IEEE VIS 2024.* [\[PDF\]](#)
- Guande Wu**, Jing Qian, Sonia Castelo Quispe, Shaoyu Chen, Joo Rulff & Claudio T. Silva (2024). ARTiST: Automated Text Simplification for the Task Guidance in Augmented Reality. *ACM CHI 2024* [\[PDF\]](#)
- Guande Wu**, Shunan Guo, Gromit Chen, Jane Hoffswell, Gromit Yeuk-Yin Chan, Ryan Rossi & Eun-ye Koh. Socrates: Data Story Generation via Adaptive Machine-Guided Elicitation of User Feedback. [\[PDF\]](#)
- Sonia Castelo Quispe, Joo Rulff, Erin McGowan, Bea Steers, **Guande Wu**, Shaoyu Chen, Iran Roman, Roque Lopez, Ethan Brewer, Chen Zhao, Jing Qian, Kyunghyun Cho, He He, Qi Sun, Huy T. Vo, Juan Pablo Bello, Michael Krone, Claudio Silva. ARGUS: Visualization of AI-assisted Task Guidance in AR. *IEEE VIS 2023, Best Paper Honorable Mentions* [\[PDF\]](#)
- Qing Chen, Nan Chen, Wei Shuai, **Guande Wu**, Zhe Xu, Hanghang Tong, Nan Cao. Calliope-Net: Automatic Generation of Graph Data Facts via Annotated Node-link Diagrams. *IEEE VIS 2023* [\[PDF\]](#)
- Guande Wu**, Jianzhe Lin & Claudio T. Silva. IntentVizor: Towards Generic Query Guided Interactive Video Summarization. *CVPR 2022* [\[PDF\]](#)
- Guande Wu**, Jianzhe Lin, Claudio T. Silva. ERA: Entity Relationship Aware Video Summarization with Wasserstein GAN. *BMVC 2021* [\[PDF\]](#)
- Guande Wu**, Shuya Zhao, Chen Lin, Jianzhe, Claudio T. Silva. Basketball GAN: Sportingly Acceptable Trajectory Prediction. *IJCAI 2021 AI for Sports Analytics (AISA) Workshop.*
- LouAnne Boyd, Annuska Zolyomi, Saad Hassan, Seray Ibrahim, **Guande Wu**, Kay Kender. Exploring the “Freedom to be Me” through Design Sprints with Neurodiverse Scholars. *ASSETS’24 Poster.*