

Silas Hsu

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Website <https://smhsu.github.io/>

Google scholar <https://scholar.google.com/citations?user=y58a-6gAAAAJ&hl=en>

Education

University of Illinois at Urbana-Champaign 2018 – 2024

Ph.D. in Computer Science

Dissertation title: Building Better Control Settings for Online Content Curation

Advisor: Karrie Karahalios

Washington University in St. Louis 2012 – 2017

M.S. in Computer Science (2017)

B.S. in Computer Science, Major in Music (2016)

Publications in HCI

Silas Hsu and Karrie Karahalios. *Choosing What You Want Versus Getting What You Want: An Experiment with Choice in Video Ad Placement* (CHI '24). <https://doi.org/10.1145/3613904.3642869>

Tiffany Wenting Li and Silas Hsu (co-first authors), M Fowler, Z Zhang, C Zilles, and Karrie Karahalios. *Am I Wrong, or is the Autograder Wrong? Effects of AI Grading Mistakes and Error Rate Perception on Learning* (ICER '23). <https://doi.org/10.1145/3568813.3600124>

Silas Hsu and Tiffany Wenting Li (co-first authors), Z Zhang, M Fowler, C Zilles, and Karrie Karahalios. *Attitudes Surrounding an Imperfect AI Autograder* (CHI '21). <https://doi.org/10.1145/3411764.3445424>.

Silas Hsu, K Vaccaro, Y Yue, A Rickman, and Karrie Karahalios. *Awareness, Navigation, and Use of Feed Control Settings Online* (CHI '20). <https://doi.org/10.1145/3313831.3376583>

Publications in visualization and bioinformatics

Zubair Lalani, G Chu, **Silas Hsu**, S Kagawa, M Xiang, S Zaccario, and Mohammed El-Kebir. *CNAViz: An interactive webtool for user-guided segmentation of tumor DNA sequencing data* (PLOS Computational Biology 2022). <https://doi.org/10.1371/journal.pcbi.1010614>

Daofeng Li, D Purushotham, J Harrison, **Silas Hsu**, 8 other authors, and Ting Wang. *WashU Epigenome Browser update 2022* (Nucleic Acids Research 2022). <https://doi.org/10.1093/nar/gkac238>

Daofeng Li and Silas Hsu, D Purushotham, R Sears, and Ting Wang. *WashU Epigenome Browser update 2019* (Nucleic Acids Research 2019). <https://doi.org/10.1093/nar/gkz348>.

Huawen Lin, N Nauman, A Albee, **Silas Hsu**, and Susan K Dutcher. *New mutations in flagellar motors identified by whole genome sequencing in Chlamydomonas* (Cilia 2013). <https://doi.org/10.1186/2046-2530-2-14>.

Teaching experience

Teaching Assistant @ University of Illinois Urbana-Champaign

Data Visualization	2022
Social Visualization (obtained Outstanding Teaching Assistant Award)	2021
Intro to Computer Science	2019

Teaching Assistant @ Washington University in St. Louis

Algorithms and Data Structures	2015
Intro to Computer Science	2013, 2014

Piano Teacher @ Orchestrating Diversity

2014 – 2017

This was a volunteer position affiliated with Wash U St. Louis. It focused on giving free music lessons and experiences to children whose parents could not otherwise afford it.

Honors and awards

Mavis Future Faculty Fellow	2022
Outstanding Teaching Assistant Award	2021
Diffenbaugh Fellowship	2021 – 2022
Saburo Muroga Endowed Fellowship	2018 – 2019
Friends of Music scholarship awards at Washington University	2015, 2016
1 st place, Washington University Concerto and Aria Competition	2014

Software engineering experience

Research Tech II

2017 – 2018

Washington University School of Medicine

- Designed and built the web architecture of the Wash U Epigenome Browser for genomics visualization: <https://github.com/epgg/eg>
- Built the above for web browsers using React.
- Navigated and solved many issues surrounding big data visualization.

Software Development Engineer Intern

2015

Amazon.com, under IMDb

- Built a new REST service that stored and served links between IMDb titles and external vendors.
- Integrated the above system with IMDb's website, allowing film/TV pages to display real-time Amazon prices.