

## Education

2019 — **PhD Student, Computer Science — University of British Columbia**  
*Present* *Advisor: Tamara Munzner*

2011—2016 **Bachelor of Science in Informatics — University of Washington**  
*Focus in Human-Computer Interaction*

## Employment

2018—2019 **Research Developer — Computer Science & Engineering, Northwestern University**  
*Advisor: Jessica Hullman, Lab: Midwest Uncertainty Collective*

## Assistantships and Internships

2019 — **Graduate Research Assistant — InfoVis Group, University of British Columbia**  
*Present* *Supervisor: Tamara Munzner*

2016—2018 **Research Assistant — UW DataLab, University of Washington**  
*Supervisor: Jessica Hullman*

Design and developed experiment systems, interfaces, and studies for the visualization group, including Atlas of Me, Comprehension of Measurements and experiments evaluating different methods of visualizing uncertainty.

Summer 2014 **Associate Application Developer Intern — Workday Inc.**  
*Supervisor: Brad Hoyle*

Managed, wrote/exposed APIs in Workday's dev framework to extend functionality of External Career Site tools

## Publications



Accepted Papers

2021

### **The Value of Data Abstraction and Transformation of Provenance Data for Visual Analysis**

*Francis Nguyen, Jude Shamsi, Joseph Wonsil, Shabab Khan, Margo Seltzer, Tamara Munzner*

ProvViz Workshop on Provenance and Visualization 2021

2020

### **Exploring the Effects of Aggregation Choices on Untrained Visualization Users' Generalizations From Data**

*Francis Nguyen, Xiaoli Qiao, Jeffrey Heer, Jessica Hullman*

Computer Graphics Forum 2020

2019

### **Belief-Driven Data Journalism**

*Francis Nguyen, Samana Shrestha, Joe Germuska, Yea-Seul Kim, Jessica Hullman*

Computation+Journalism Symposium 2019

2018

### **Hypothetical Outcome Plots Help Untrained Observers Judge Trends in Ambiguous Data**

*Alex Kale, Francis Nguyen, Matthew Kay, Jessica Hullman*

IEEE Trans. on Visualization and Computer Graphics (proc. InfoVis '18)

2018

### **Improving Comprehension of Measurements Using Concrete Re-expression Strategies**

*Jessica Hullman, Yea-Seul Kim, Francis Nguyen, Lauren Speers, Maneesh Agrawala*

ACM CHI 2018: Conf. on Human Factors in Computing Systems

## Teaching



at the University of British Columbia Computer Science

Winter 2022,  
Winter 2021

### **CPSC 436V: Information Visualization**

*Professor: Tamara Munzner. Students: 50 in 2021, 80 in 2022*

Taught course material for weekly labs and led weekly programming labs, implemented tutorials and assignments in D3.js. Generated other D3 and lecture course materials.

Winter 2020

### **CPSC 221: Basic Algorithms and Data Structures**

*Professor: Cinda Heeran, Geoffrey Tien, Andy Roth. Students: 50 in labs*

Taught course material for weekly labs and led weekly programming labs, marked

Fall 2019

### **CPSC 344: Introduction to Human Computer Interaction Methods**

*Professor: Dongwook Yoon & Karon Maclean. Students: 120*

Led weekly group critiques, mentored student groups step by step through the iterative design process, marked, covered some lectures

— at Northwestern University Computer Science

Spring 2019 **CS 496: Interactive Information Visualization**  
*Professor: Jessica Hullman. Students: 30*  
Provided feedback for technical projects, ran labs, marked, covered a few lectures and technical tutorials

— at the University of Washington iSchool

Winter 2016 **Info 474: Interactive Information Visualization**  
*Professor: Jessica Hullman. Students 26*  
Provided feedback for technical projects, mentored students one-on-one, ran labs, marked, covered some lectures

## Service

— as a reviewer (for conferences)

**VIS 2020, 2021, 2022**  
**CHI 2021, 2022**  
**EuroVis 2021**

## Mentorship

— at the University of British Columbia Computer Science

**Undergraduate Researchers**

Edris Wu	Winter 2022
Shabab Khan	Summer 2021