Francis Nguyen

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fmnguyen.com

Education

2019 — *Present*
PhD, Computer Science — University of British Columbia
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 — *Present*
Graduate Research Assistant — InfoVis Group, University of British Columbia
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

Submitted Papers Under Peer-Review

2022 **Visualization Aggregation Choices Impact Untrained Users' Confidence and Sensitivity to Effect Size**

*Author 1, Author 2, **Francis Nguyen,** Author 4*

Computer Graphics Forum 2019

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
Shabab Khan