MATTHEW BREHMER

CV — NOV. 2021

CONTACT

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- ⚑ mattbrehmer.ca
- 🐦 @mattbrehmer
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- ⓖ mattbrehmer

REFERENCES

Dr. Tamara Munzner
PROFESSOR,
COMPUTER SCIENCE,
UNIV. BRITISH COLUMBIA
tmm@cs.ubc.ca
+1-604-827-5200

Dr. Bongshin Lee
SENIOR RESEARCHER,
MICROSOFT
bongshin@microsoft.com
+1-425-704-0779

Dr. Petra Isenberg
RESEARCH SCIENTIST,
AVIZ RESEARCH GROUP,
INRIA SACLAY
petra.isenberg@inria.fr
+33-1-74-85-42-90

I am a visualization and human-computer interaction (HCI) researcher, specializing in creative expression with data for communication and presentation, the visualization of time-oriented data, and interacting with data beyond the desktop.

EXPERTISE

VISUALIZATION, INTERFACE, AND INTERACTION DESIGN

Designing and developing dynamic, interactive, and multimodal techniques and tools for presenting and analyzing data.

QUALITATIVE HUMAN FACTORS RESEARCH

Pre-design empiricism via observational studies, retrospective interviews, and design probes; summative think-aloud usability evaluations; data analysis via thematic coding and affinity diagramming.

QUANTITATIVE HUMAN FACTORS RESEARCH

Experimental design for laboratory- and web-based experiments to evaluate graphical perception and interaction design; descriptive and inferential statistics: analysis of variance, estimations of effect size.

EDUCATION

DOCTOR OF PHILOSOPHY, COMPUTER SCIENCE
2011 - 2016

University of British Columbia (UBC), Vancouver, Canada
THESIS: *Why Visualization? Task Abstraction for Analysis & Design*
SUPERVISORS: T. Munzner (UBC CS), J. McGrenere (UBC CS), R. Rensink (UBC Psychology)

MASTER OF SCIENCE, COMPUTER SCIENCE
2009 - 2011

Specialization in Human-Computer Interaction
University of British Columbia (UBC), Vancouver, Canada
THESIS: *Usability & the Effects of Interruption in C-TOC: Self-Administered Cognitive Testing on a Computer*
SUPERVISORS: J. McGrenere (UBC CS), C. Jacova (UBC Medicine)

BACHELOR OF COMPUTING
2004 - 2009

Specialization in Cognitive Science with Professional Internship
Queen's University, Kingston, Canada
THESIS: *Assessing the Effect of Exercise Intensity on Cognitive Task Performance in an Exercise Video Game*

EMPLOYMENT EXPERIENCE

Senior Research Staff
2019 - PRESENT
Tableau / Salesforce
Seattle, USA

Postdoctoral Researcher
2016 - 2019
Microsoft Research
Redmond, USA

Graduate Research Assistant
2009 - 2016
University of British Columbia Department of Computer Science
Vancouver, Canada

Graduate Research Intern
2015
Microsoft Research
Redmond, USA

Mitacs Graduate Research Intern
2013 - 2014
Pulse Energy (now a division of Enel X, formerly EnerNOC)
Vancouver, Canada

Graduate Teaching Assistant
2009 - 2011
University of British Columbia Department of Computer Science
Vancouver, Canada

Research Assistant
2009
Queen's University School of Computing
Kingston, Canada

User Experience Design / Development Intern
2007 - 2008
EMC Corporation (now Dell EMC)
Toronto, Canada

Information Technology Staff / Web Developer
2006
Killam Properties, Inc.
Halifax, Canada

PUBLICATIONS

Author copies of these publications are available at mattbrehmer.ca#pubs.
My current H index is 18 (GOOGLE SCHOLAR, NOV. 2021): AR = acceptance rate, H = H5 index, CC = citation count.

PEER-REVIEWED JOURNAL AND CONFERENCE PAPERS

Generative Design Inspiration for Glyphs with Diatoms   TVCG22A
Matthew Brehmer, Robert Kosara, & Carmen Hull.
To appear in *IEEE Transactions on Visualization & Computer Graphics*
(Appeared at IEEE VIS 2021). AR: 26% H: 82

From Jam Session to Recital: TVCG22B
Synchronous Communication & Collaboration Around Data in Organizations
Matthew Brehmer & Robert Kosara.
To appear in *IEEE Transactions on Visualization & Computer Graphics*
(Appeared at IEEE VIS 2021). AR: 26% H: 82 CC: 1

QualDash: TVCG21
Adaptable Generation of Visualisation Dashboards for Healthcare Quality Improvement
Mai Elshehaly, Rebecca Randell, Matthew Brehmer, Lynn McVey, Natasha Alvarado, Chris P. Gale, & Roy
A. Ruddle.
In Volume 27, Issue 2 (Feb. 2021) of *IEEE Transactions on Visualization & Computer Graphics*
(Appeared at IEEE VIS 2020). H: 82 CC: 5

Orchard: Exploring Multivariate Heterogeneous Networks on Mobile Phones   CGF20
Philipp Eichmann, Darren Edge, Nathan Evans, Bongshin Lee, Matthew Brehmer, & Christopher White.
In Volume 29, Issue 3 (2020) of *Computer Graphics Forum* (Appeared at EuroVis 2020). H: 60 CC: 58

A Comparative Evaluation of Animation & Small Multiples for   TVCG20A
Trend Visualization on Mobile Phones
Matthew Brehmer, Bongshin Lee, Petra Isenberg, & Eun Kyoung Choe.
In Volume 26, Issue 1 (Jan. 2020) of *IEEE Transactions on Visualization & Computer Graphics*
(Presented at IEEE VIS 2019). H: 82 AR: 26% CC: 30

Critical Reflections on Visualization Authoring Systems   TVCG20B
Arvind Satyanarayan, Bongshin Lee, Donghao Ren, Jeffrey Heer, John Stasko, John R. Thompson,
Matthew Brehmer, and Zhicheng Liu.
In Volume 26, Issue 1 (Jan. 2020) of *IEEE Transactions on Visualization & Computer Graphics*
(Appeared at IEEE VIS 2019). H: 82 AR: 26% CC: 43

Inking Your Insights: Investigating Digital Externalization Behaviors During Data Analysis   ISS19
Yea-Seul Kim, Nathalie Henry Riche, Bongshin Lee, Matthew Brehmer, Michel Pahud, Ken Hinckley, &
Jessica Hullman.
In *Proceedings of the 2019 ACM Conference on Interactive Surfaces & Spaces* (ISS). CC: 8

Thumbnails for Data Stories: A Survey of Current Practices   VIS19
Hwiyeon Kim, Juyoung Oh, Yunha Han, Sungahn Ko, Matthew Brehmer, & BC Kwon.
In *Short Paper Proceedings of IEEE VIS 2019*. AR: 32% H: 11 CC: 5

DataToon: Drawing Dynamic Network Comics With Pen + Touch Interaction   CHI19
Nam Wook Kim, Nathalie H. Riche, Benjamin Bach, Guanpeng A. Xu, Matthew Brehmer, Ken Hinckley,
Michel Pahud, Haijun Xia, Michael McGuffin, & Hanspeter Pfister.
In *Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems* (CHI).
H: 101 AR: 24% CC: 34

Timeline Storyteller: C+J19
The Design & Deployment of an Interactive Authoring Tool for Expressive Timeline
Narratives
Matthew Brehmer, Bongshin Lee, Nathalie H. Riche, David Tittsworth, Kate Lytvynets, Darren Edge, &
Christopher White.
Proceedings of the 2019 Computation + Journalism Symposium. CC: 8

Visualizing Ranges over Time on Mobile Phones: TVCG19A
A Task-Based Crowdsourced Evaluation
Matthew Brehmer, Bongshin Lee, Petra Isenberg, & Eun Kyoung Choe.
In Volume 25, Issue 1 (Jan. 2019) of *IEEE Transactions on Visualization & Computer Graphics*
(Presented at IEEE VIS 2018). H: 82 AR: 25% CC: 37

Charticulator: Interactive Construction of Bespoke Chart Layouts   TVCG19B
Donghao Ren, Bongshin Lee, & Matthew Brehmer.
In Volume 25, Issue 1 (Jan. 2019) of *IEEE Transactions on Visualization & Computer Graphics*
(Appeared at IEEE VIS 2018). H: 82 AR: 25% CC: 73
🏅 BEST PAPER HONORABLE MENTION AWARD

What's the Difference?
Evaluating Variants of Multi-Series Bar Charts for Visual Comparison Tasks
Arjun Srinivasan, <u>Matthew Brehmer</u>, Bongshin Lee, & Steven Drucker.
In *Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems* (CHI).
H: 101 AR: 26% CC: 20

CHI18

Timelines Revisited:
A Design Space & Considerations for Expressive Storytelling
<u>Matthew Brehmer</u>, Bongshin Lee, Benjamin Bach, Nathalie H. Riche,
and Tamara Munzner.
In Volume 23, Issue 9 (Sept. 2017) of *IEEE Transactions on Visualization & Computer Graphics*
(Presented at IEEE VIS 2017). H: 82 CC: 132

TVCG17

ChartAccent: Annotation for Data-Driven Storytelling
Donghao Ren, <u>Matthew Brehmer</u>, Bongshin Lee, Tobias Höllerer,
and Eun Kyoung Choe.
In *Proceedings of the 2017 IEEE PacificVis Symposium*. H: 18 CC: 72

PVIS17

Matches, Mismatches, & Methods:
Multiple-View Workflows for Energy Portfolio Analysis
<u>Matthew Brehmer</u>, Jocelyn Ng, Kevin Tate, & Tamara Munzner.
In Volume 22, Issue 1 (Jan. 2016) of *IEEE Transactions on Visualization & Computer Graphics*
(Presented at IEEE VIS 2015). H: 82 AR: 21% CC: 34

TVCG16A

TimeLineCurator:
Interactive Authoring of Visual Timelines from Unstructured Text
Johanna Fulda, <u>Matthew Brehmer</u>, & Tamara Munzner.
In Volume 22, Issue 1 (Jan. 2016) of *IEEE Transactions on Visualization & Computer Graphics*
(Appeared at IEEE VIS 2015). H: 82 CC: 66

TVCG16B

C-TOC (Cognitive Testing on Computer):
Investigating the Usability & Validity of a Novel Self-administered Cognitive Assessment
Tool in Aging & Early Dementia
Claudia Jacova, Joanna McGrenere, Hyunsoo S. Lee, William Wang, Sarah Le Huray, Emily F. Corenblith,
<u>Matthew Brehmer</u>, Charlotte Tang, Sherri Hayden, B. Lynn Beattie, & Ging-Yuek R. Hsiung.
In *Alzheimer Disease & Associated Disorders (July 2015)*. CC: 15

ADAD15

Overview:
The Design, Adoption, & Analysis of a Visual Document Mining Tool For Investigative
Journalists
<u>Matthew Brehmer</u>, Stephen Ingram, Jonathan Stray, & Tamara Munzner.
In Volume 20, Issue 12 (Dec. 2014) of *IEEE Transactions on Visualization & Computer Graphics*
(Presented at IEEE VIS 2014). H: 82 AR: 23% CC: 110

TVCG14

A Multi-Level Typology of Abstract Visualization Tasks
<u>Matthew Brehmer</u> & Tamara Munzner.
In Volume 19, Issue 12 (Dec. 2013) of *IEEE Transactions on Visualization & Computer Graphics*
(Presented at IEEE VIS 2013). H: 82 AR: 25% CC: 576
🏅 THE MOST CITED IEEE INFOVIS PAPER SINCE 2013.

TVCG13

Investigating Interruptions in the Context of
Computerized Cognitive Testing for Older Adults
<u>Matthew Brehmer</u>, Joanna McGrenere, Charlotte Tang, & Claudia Jacova.
In *Proceedings of the 2012 ACM Conference on Human Factors in Computing Systems* (CHI).
H: 101 AR: 23% CC: 12

CHI12

The Haptic Crayola Effect:
Exploring the Role of Naming in Learning Haptic Stimuli
Inwook Hwang, Karon MacLean, <u>Matthew Brehmer</u>, Jeff Hendy,
Andreas Sotirkopoulos, & Seungmoon Choi.
In *Proceedings of the 2011 IEEE World Haptics Conference*. CC: 11

WHC11

Activate Your GAIM: A Toolkit for Input in Active Games
<u>Matthew Brehmer</u>, Nicholas Graham, & Tadeusz Stach.
In *Proceedings of the 2010 ACM Future Play Conference*. CC: 13

FP10

Classifying Input for Active Games
Tadeusz Stach, Nicholas Graham, <u>Matthew Brehmer</u> & Andreas Hollatz.
In *Proceedings of the 2009 ACM Conference on Advances in Computer Entertainment Technology* (ACE).
CC: 27

ACE09

PEER-REVIEWED WORKSHOP PAPERS

Reflecting on the Evaluation of Visualization Authoring Systems   BELIV18
Donghao Ren, Bongshin Lee, <u>Matthew Brehmer</u>, & Nathalie H. Riche.
In the *Proceedings of the 2018 BELIV Workshop: Evaluation & Beyond - Methodological Approaches for Visualization* cc: 22.

Data Visualization on Mobile Devices   CHI-EA18
Bongshin Lee, <u>Matthew Brehmer</u>, Eun Kyoung Choe, Petra Isenberg, Ricardo Langer, & Raimund Dachselt.
In *Extended Abstract Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems (CHI)* cc: 24.

Visualizing Dimensionally-Reduced Data: BELIV14A
Interviews with Analysts & a Characterization of Task Sequences
<u>Matthew Brehmer</u>, Michael Sedlmair, Stephen Ingram, & Tamara Munzner.
In *Proceedings of the 2014 ACM BELIV Workshop: Beyond Time & Errors - Novel Evaluation Methods for Visualization* cc: 83.

Pre-Design Empiricism for Information Visualization: BELIV14B
Scenarios, Methods, & Challenges
<u>Matthew Brehmer</u>, Sheelagh Carpendale, Bongshin Lee, & Melanie Tory.
In *Proceedings of the 2014 ACM BELIV Workshop: Beyond Time & Errors - Novel Evaluation Methods for Visualization* cc: 32.

A Tale of Two Studies: Investigating the Impact of Interruptions on Task Performance in   GRAND11
Older Adults
<u>Matthew Brehmer</u>, Charlotte Tang, Joanna McGrenere, & Claudia Jacova.
In the *Work-In-Progress Proceedings of the the 2011 GRAND NCE AGM*.

OTHER PUBLICATIONS: BOOK CHAPTERS, TECHNICAL REPORTS, POSTERS, THESES

Interacting with Visualization on Mobile Devices   MDVA
<u>Matthew Brehmer</u>, Bongshin Lee, John Stasko, & Christian Tominski.
To appear in *Mobile Data Visualization*, edited by Bongshin Lee, Raimund Dachselt, Petra Isenberg, Eun Kyoung Choe (CRC Press, 2021).

Responsive Visualization Design for Mobile Devices   MDVB
Tom Horak, Wolfgang Aigner, <u>Matthew Brehmer</u>, Alark Joshi, & Christian Tominski.
To appear in *Mobile Data Visualization*, edited by Bongshin Lee, Raimund Dachselt, Petra Isenberg, Eun Kyoung Choe (CRC Press, 2021).

Evaluating Data-Driven Stories & Storytelling Tools   DDS18
Fereshteh Amini*, <u>Matthew Brehmer</u>*, Gordon Bolduan, Christina Elmer, & Benjamin Wiederkehr (* contributed equally).
In *Data-Driven Storytelling*, edited by Sheelagh Carpendale, Nicholas Diakopoulos, Christophe Hurter, Nathalie H. Riche (CRC Press, 2018) cc: 3.

Demonstrating the Value of Visualization: VIS17
Highlights from the 2017 PacificVis Visual Data Storytelling Contest
<u>Matthew Brehmer</u>, Kyungwon Lee, Ivan Viola, Jinwook Seo, & Bongshin Lee.
In *Poster Proceedings of the 2017 IEEE VIS Conference*.

Why Visualization? Task Abstraction for Analysis & Design   T16
<u>Matthew Brehmer</u>.
University of British Columbia PhD Dissertation (2016).

Dimensionality Reduction in the Wild: Gaps & Guidance   TR2012
Michael Sedlmair, <u>Matthew Brehmer</u>, Stephen Ingram, & Tamara Munzner.
University of British Columbia Technical Report TR-2012-03 (2012) cc: 29.

Usability & the Effects of Interruption in C-TOC: T11
Self-Administered Cognitive Testing on a Computer
<u>Matthew Brehmer</u>.
University of British Columbia MSc Thesis (2011) cc: 3.

Assessing the Effect of Exercise Intensity on Cognitive Task Performance in an Exercise   T09
Video Game
<u>Matthew Brehmer</u>.
Queen's University B.Comp Thesis (2009).

TALKS

Slides available at mattbrehmer.ca/#talks. ▶ = video available.

Generative Design Inspiration for Glyphs with Diatoms
IEEE VIS 2021 (Virtual) ▶
2021 / 10 / 29

From Jam Session to Concert Hall
IEEE VIS 2021 (Virtual, with Robert Kosara) ▶
2021 / 10 / 27

New Perspectives on Communicating with Visualization
University of Waterloo (Waterloo, Canada)
2021 / 10 / 08

The Information in Our Hands
Information+ Conference 2021 (Virtual) ▶
2021 / 09 / 30

Interactive Tools for Visualizing Data: Perspectives from Research + Practice
University of Victoria - Information Visualization - Guest Speaker Series (Virtual)
2021 / 02 / 10

Interactive Tools for Visualizing Data: Perspectives from Research + Practice
University of Edinburgh's online course for DataVis professionals (Virtual) ▶
2020 / 06 / 24

See & Understand Networks)
Tableau Conference (Las Vegas, USA, with Scott Sherman) ▶
2019 / 11 / 13

An Evaluation of Animation & Small Multiples for Trend Visualization on Mobile Phones
IEEE VIS 2019 (Vancouver, Canada) ▶
2019 / 10 / 23

Crowdsourced Evaluation for Mobile Vis
Mobile Data Visualization Dagstuhl Seminar (Wadern, Germany)
2019 / 07 / 17

Expressive Visualization Tools for Data-Driven Storytelling
ASA Symposium on Data Science & Statistics (SDSS) (Bellevue, USA)
2019 / 05 / 30

Visualizing Quantities & Events Over Time
Chatham Labs (Toronto, Canada)
2019 / 04 / 25

Constraints & Opportunities for Expressive Information Design
Tableau Research (Seattle, USA)
2019 / 04 / 09

Visualizing Information on Mobile Phones
Microsoft Research (Redmond, USA)
2019 / 03 / 13

Constraints & Opportunities for Expressive Information Design
Uncharted Software (Toronto, Canada)
2019 / 03 / 01

Considerations for Interactive & Expressive Information Design Tools
University of Ontario Institute of Technology (Oshawa, Canada)
2019 / 02 / 27

Considerations for Interactive & Expressive Information Design Tools
Autodesk Research (Toronto, Canada)
2019 / 02 / 26

Timeline Storyteller: An Authoring Tool for Expressive Timeline Narratives
The Computation + Journalism Symposium (Coral Gables, USA) ▶
2019 / 02 / 02

Constraints & Opportunities for Expressive Information Design
Simon Fraser University School of Interactive Arts & Technology (Surrey, Canada)
2019 / 01 / 28

Visualizing Ranges over Time on Mobile Phones
IEEE VIS 2018 (Berlin, Germany) ▶
2018 / 10 / 24

Tools for Expressive Information Visualization Design
Microsoft Vancouver Data Visualization Symposium (Vancouver, Canada)
2018 / 08 / 01

Timeline Storyteller, from Visualization Design Space to Deployment
Data Empowerment Speaker Series (University of Calgary, Canada)
2018 / 06 / 18

Data-Driven Storytelling at Microsoft
UBC School of Journalism, Topics in Contemporary Journalism: Data Viz (JRNL 520H) (Vancouver, Canada)
2017 / 10 / 24

Timelines Revisited: Considerations for Expressive Storytelling
IEEE VIS 2017 (Phoenix, USA)
2017 / 10 / 03

Expressive Storytelling With Timelines
Uber Visualization Night: A Journey Through Space & Time (Seattle, USA)
2017 / 08 / 31

Timelines Revisited: Considerations for Expressive Storytelling
King's College London Department of Informatics (London, UK)
2017 / 07 / 11

Timelines Revisited: Considerations for Expressive Storytelling
City University London giCentre (London, UK)
2017 / 07 / 10

The Timeline Storyteller Custom Visual for Power BI
Microsoft Data Insights Summit BI Power Hour (Seattle, USA) ▶
2017 / 06 / 13

TALKS (CONT.)

Timelines Revisited: Considerations for Expressive Storytelling
Northeastern University NUVis Visualization Consortium (Boston, USA)
2017 / 04 / 28

Timelines Revisited: Considerations for Expressive Storytelling
Bentley University RealViz talk series (Waltham, USA) ▶
2017 / 04 / 27

What Story Does Your Timeline Tell?
OpenVisConf 2017 (Boston, USA) ▶
2017 / 04 / 24

Timelines Revisited: Considerations for Expressive Storytelling
Radcliffe Institute at Harvard University (Cambridge, USA)
2016 / 12 / 08

Why Visualization? Task Abstraction for Analysis & Design
Dissertation Defence (Vancouver, Canada)
2016 / 03 / 23

Storytelling with Timeline Data
Data-Driven Storytelling Dagstuhl Seminar (Wadern, Germany)
2016 / 02 / 11

Why Visualization? Task Abstraction for Analysis & Design
Microsoft Research (Redmond, USA) ▶
2016 / 02 / 01

Matches, Mismatches, & Methods: Workflows for Energy Portfolio Analysis
IEEE VIS 2015 (Chicago, USA) ▶
2015 / 10 / 28

Multiple-View Workflows for Energy Portfolio Analysis
University of Washington (Seattle, USA)
2015 / 09 / 04

The Future of Data & Design … In Visualization Research
Vancouver Data Visualization Meetup (Vancouver, Canada)
2015 / 05 / 19

Overview: The Design, Adoption, & Analysis of a Visual Document Mining Tool For Investigative Journalists
IEEE VIS 2014 (Paris, France) ▶
2014 / 11 / 14

Visualizing Dimensionally-Reduced Data:
Interviews with Analysts & a Characterization of Task Sequences
ACM BELIV 2014 (Paris, France)
2014 / 11 / 10

Pre-Design Empiricism for Information Visualization
ACM BELIV 2014 (Paris, France)
2014 / 11 / 10

Visualization Task Abstraction from Multiple Perspectives
IEEE VIS Doctoral Colloquium 2014 (Paris, France)
2014 / 11 / 08

A Multi-Level Typology of Abstract Visualization Tasks
IEEE VIS 2013 (Atlanta, USA)
2013 / 10 / 15

Investigating Interruptions in the Context of Computerized Cognitive Testing for Older Adults
ACM CHI 2012 (Austin, USA)
2012 / 05 / 10

The Impact of Interruptions on Task Performance in Older Adults
GRAND NCE AGM 2011 (Vancouver, Canada)
2011 / 05 / 14

DEMONSTRATIONS

Tilt & Pose-Based Gesture Interaction
Microsoft TechFest 2019 (Redmond, USA)
2019 / 03 / 04 - 06

Timeline Storyteller
The Computation + Journalism Symposium (Coral Gables, USA)
2019 / 02 / 01

Charticulator
Tapestry Conference 2018 (Coral Gables, USA)
2018 / 12 / 01

Timeline Storyteller
Microsoft Research Week (Redmond, USA)
2017 / 03 / 09

Timeline Storyteller
Tapestry Conference 2017 (St. Augustine, USA)
2017 / 03 / 01

COMMUNITY SERVICE

ORGANIZING COMMITTEES

IEEE VIS (Co-Chair, VisInPractice)	2018 – 2021
IEEE VIS (Member, Committee to Attract & Retain Practitioners to VIS)	2019
ACM CHI Workshop on Data Visualization on Mobile Devices (Co-Organizer)	2018
IEEE Pacific Visualization Symposium (Co-Chair, Visual Data Storytelling Contest)	2017, 2018

PROGRAM COMMITTEES

IEEE Conference on Visualization (VIS)	2021
Information+ Conference	2018, 2021
IEEE Conference on Information Visualization (InfoVis)	2017 - 2019
Computation + Journalism (C+J)	2019
VISAP: The IEEE VIS Arts Program	2018
BELIV: Evaluation & Beyond - Methodological Approaches for Visualization	2018
IEEE Pacific Visualization Symposium (PacificVis)	2017, 2018
ACM FAT*: Fairness, Accountability, Transparency (HCI / Visualization Track)	2018
The Art of Networks III	2018
EuroGraphics / VGTC Conf. on Visualization (EuroVis) State of the Art Reports	2017

EXTERNAL REVIEWING

ACM Conference on Human Factors in Computing Systems (CHI)	2013 - 2022
EuroGraphics / VGTC Conference on Visualization (EuroVis)	2014 - 2021
IEEE Transactions on Visualization & Computer Graphics (TVCG)	2015 - 2021
SAGE Information Visualization Journal	2015 - 2021
IEEE Conference on Information Visualization (InfoVis)	2013 - 2016, 2020
ACM Conference on Designing Interactive Systems (DIS)	2020
ACM Conference on Computer-Supported Collaborative Work (CSCW)	2020
IEEE Pacific Visualization Symposium (PacificVis)	2017, 2019
ACM Conference on Creativity & Cognition (C&C)	2019
IEEE Conference on Visual Analytics Science & Technology (VAST)	2015
ACM Transactions on Computer-Human Interaction (TOCHI)	2013
ACM SIGGRAPH Asia	2012

INVITED WORKSHOP, CONSORTIUM, + SEMINAR PARTICIPATION

Schloss Dagstuhl Seminar on Mobile Data Visualization	2019
BIRS Workshop on Restructuring IEEE VIS For the Future	2018
Harvard University / Sloan Foundation Timeline Consortium	2016, 2017, 2018
Schloss Dagstuhl Seminar on Data-Driven Storytelling	2016
ACM Beyond Time & Errors (BELIV) Workshop	2014
VACCINE / UCSD Workshop on the Evaluation of Visual Analytics	2014

STUDENT VOLUNTEERING

ACM Conference on Human Factors in Computing Systems (CHI)	2011, 2013, 2015, 2016

PROFESSIONAL ASSOCIATIONS

Data Visualization Society Board of Directors Nomination Committee	2020 - 2021

UNIVERSITY SERVICE

UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF COMPUTER SCIENCE

Graduate Admissions & Recruitment Committee	2013 - 2015
Guest Lecturer (CPSC 547: Information Visualization)	2014 - 2017
Curriculum Development (CPSC 444: Advanced HCI Methods)	2010 - 2011
Teaching Assistant (CPSC 444: Advanced Human Computer Interaction Methods)	2010
Teaching Assistant (CPSC 344: Introduction to Human Computer Interaction Methods)	2009

UNIVERSITY OF BRITISH COLUMBIA COMPUTER SCIENCE GRADUATE STUDENT ASSOCIATION

Vice President, Social Affairs	2010 - 2011
Co-Organizer, The Un-Distinguished Lecture Series	2010 - 2013

QUEENS UNIVERSITY COMPUTING STUDENT ASSOCIATION

Orientation Leader	2005
First-Year Representative	2004 - 2005

AWARDS

PROJECT RECOGNITION

IEEE InfoVis Conference: Best Paper Honorable Mention for TVCG19b (Charticulator)	2018
Kantar Information is Beautiful Awards Shortlist (Charticulator)	2018

SERVICE RECOGNITION

University of British Columbia Dept. Computer Science Student Service Award	2016
University of British Columbia Dept. Computer Science Volunteering Award	2015

SCHOLARSHIPS

University of British Columbia Four Year Doctoral Fellowship	2011 - 2015
Natural Sciences & Engineering Research Council (NSERC) Postgraduate Scholarship	2011 - 2014
NSF IEEE VIS Doctoral Colloquium Travel Award	2014
Mitacs-Accelerate Research Internship Award	2013 - 2014
University of British Columbia Dept. Computer Science Merit Scholarship	2009 - 2011
Queen's University Dean's Entrance Scholarship in Computing	2004 - 2005