

# MATTHEW BREHMER, PHD

CURRICULUM VITAE, APR. 2019

---

## CONTACT

✉ mattbrehmer@gmail.com  
☎ +1-778-834-3016  
👉 mattbrehmer.github.io  
🐦 @mattbrehmer  
📠 matthewbrehmer  
➲ matthewbrehmer  
➲ mattbrehmer

## REFERENCES

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

Dr. Ken Hinckley  
PRINCIPAL RESEARCHER,  
MICROSOFT  
kenh@microsoft.com  
+1-425-703-9065

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

Dr. Joanna McGrenere  
PROFESSOR,  
COMPUTER SCIENCE,  
UNIV. BRITISH COLUMBIA  
joanna@cs.ubc.ca  
+1-604-827-5201

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

I am a recognized expert in the field of **information visualization**, a practice that brings together data analysis, software development, HCI / UX methods, and design. My open-source visualization work can be seen and used online and in Microsoft's Power BI. I have spoken about my work at venues such as IEEE VIS, ACM CHI, and OpenVisConf, and I have published several papers about my work in IEEE Transactions on Visualization & Computer Graphics, the top visualization journal.

## EXPERTISE

---

### VISUALIZATION AND INTERFACE DESIGN

Designing and developing visualization tools and techniques for analyzing and presenting data.

EXAMPLE PROJECTS: *Timeline Storyteller*, *Portfolio Sandbox*, *SoundConsensus*, *ShinyFork*.

RELATED PUBLICATIONS: C7, J8, J6, J5, T3

### QUANTITATIVE HUMAN FACTORS RESEARCH

Designing experiments to understand human capabilities with respect to perception, attention, and interaction; identifying implications for interface and visualization design.

RELATED PUBLICATIONS: J8, C6, C4, T2, C3, T1

### QUALITATIVE HUMAN FACTORS RESEARCH

Evaluating existing data visualization processes, work-in-progress designs, and deployed systems via work domain analyses, think-aloud protocols, and chauffeured demos.

RELATED PUBLICATIONS: J5, J2, W3, W2, TR1, T2

## APPLICATION DOMAINS

---

### DATA JOURNALISM AND STORYTELLING

Designing, developing, and promoting the use of visualization tools for journalists, educators, and storytellers that allow them to expressively present information to their audiences.

RELATED PUBLICATIONS: C7, J7, J6, C5, J4, W5, BC1

As part of my PhD, I conducted case studies of journalists who used the *Overview Project* to investigate large document corpora, resulting in implications for visualizing hierarchical text data.

RELATED PUBLICATION: J2

### RESOURCE MANAGEMENT AND CONSERVATION

As part of my PhD, I designed visualization techniques for interactively monitoring patterns of energy usage in portfolios of buildings, consulting regularly with stakeholders.

RELATED PUBLICATION: J5

### PERSONAL HEALTH AND WELLNESS

In my MSc, I evaluated aspects of C-TOC, an online self-administered assessment tool for the early detection of cognitive decline; I focused on how interruptions impact assessment performance.

RELATED PUBLICATIONS: C4, J3, T2, W1

Prior to my MSc, I studied the impact of physical exertion on cognitive performance in active games; I developed GAIM, a toolkit allowing players with different input devices to play together.

RELATED PUBLICATIONS: C2, C1, T1

## EDUCATION

### DOCTOR OF PHILOSOPHY, COMPUTER SCIENCE

2011 - 2016

University of British Columbia (UBC), Vancouver, Canada

THESIS: *Why Visualization? Task Abstraction for Analysis and Design*

SUPERVISORS: T. Munzner (UBC CS), J. McGrenere (UBC CS), R. Rensink (UBC Psych.)

EXAMINORS: J. Dykes (City Univ., London), A. Hermida (UBC Journ.), G. Carenini (UBC CS)

RELATED PUBLICATIONS: T3, J1, J2, J5, TR1, W2

### MASTER OF SCIENCE, COMPUTER SCIENCE

2009 - 2011

Specialization in Human-Computer Interaction

University of British Columbia (UBC), Vancouver, Canada

THESIS: *Usability and the Effects of Interruption in C-TOC: Self-Administered Cognitive Testing on a Computer*

SUPERVISORS: J. McGrenere (UBC CS), C. Jacova (UBC Med.)

THESIS READER: P. Graf (UBC Psych.)

RELATED PUBLICATIONS: C4, J3, W1, T2

### 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*

SUPERVISOR: T. C. N. Graham (Queen's Univ. CS)

RELATED PUBLICATION: T1

## EMPLOYMENT EXPERIENCE

### Postdoctoral Researcher

2016 - 2019

Microsoft Research

Redmond, USA

MANAGERS: KORI INKPEN [2016/10 - 2017/04], KEN HINCKLEY [2017/04 - 2019/04]

### Graduate Research Assistant

2009 - 2016

University of British Columbia Department of Computer Science  
Vancouver, Canada

### Graduate Research Intern

2015

Microsoft Research

Redmond, USA

MENTOR: BONGSHIN LEE

### Mitacs Graduate Research Intern

2013 - 2014

Pulse Energy (now a division of 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 Interface Design Intern

2007 - 2008

EMC Corporation (now Dell EMC)  
Toronto, Canada

### Information Technology Staff and Web Developer

2006

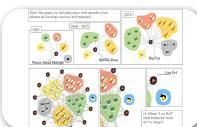
Killam Properties, Inc.  
Halifax, Canada

## PUBLICATIONS

Author copies of these publications are available at [mattbrehmer.github.io/#pubs](http://mattbrehmer.github.io/#pubs).

J = journal article, C = conference proceedings, W = workshop paper, BC = book chapter,  
TR = technical report, T = thesis, P = poster. METRICS (where available): AR = acceptance rate, H5 = H5  
index, CC = citation count (GOOGLE SCHOLAR, APR. 2019). My current H index is 11.

### PEER-REVIEWED JOURNAL AND CONFERENCE PAPERS



#### DataToon: Drawing Dynamic Network Comics With Pen + Touch Interaction

Nam Wook Kim, Nathalie H. Riche, Benjamin Bach, Guanpeng A. Xu, Matthew Brehmer,  
Ken Hinckley, Michel Pahud, Haijun Xia, Michael McGuffin, and Hanspeter Pfister.  
To appear in *Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems (CHI)* [H5: 86] [AR: 24%].

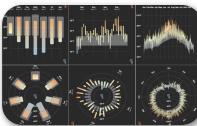
C8



#### Timeline Storyteller: 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, and Christopher White.  
*Proceedings of the 2019 Computation + Journalism Symposium*.

C7



#### Visualizing Ranges over Time on Mobile Phones: A Task-Based Crowdsourced Evaluation

Matthew Brehmer, Bongshin Lee, Petra Isenberg, and Eun Kyoung Choe.  
In Volume 25, Issue 1 (Jan. 2019) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Presented at IEEE VIS 2018) [AR: 25%] [CC: 1].

J8



#### Charticator: Interactive Construction of Bespoke Chart Layouts

Donghao Ren, Bongshin Lee, and Matthew Brehmer.  
In Volume 25, Issue 1 (Jan. 2019) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Appeared at IEEE VIS 2018) [AR: 25%] [CC: 3].



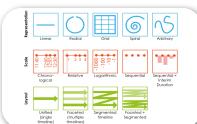
J7



#### What's the Difference?: Evaluating Variants of Multi-Series Bar Charts for Visual Comparison Tasks

Arjun Srinivasan, Matthew Brehmer, Bongshin Lee, and Steven Drucker.  
In *Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems (CHI)* [H5: 86] [AR: 26%] [CC: 2].

C6



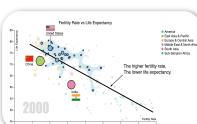
#### Timelines Revisited:

#### A Design Space and Considerations for Expressive Storytelling

Matthew Brehmer, Bongshin Lee, Benjamin Bach, Nathalie H. Riche,  
and Tamara Munzner.

In Volume 23, Issue 9 (Sept. 2017) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Presented at IEEE VIS 2017) [CC: 39].

J6



#### ChartAccent: Annotation for Data-Driven Storytelling

Donghao Ren, Matthew Brehmer, Bongshin Lee, Tobias Höllerer,  
and Eun Kyoung Choe.

In *Proceedings of the 2017 IEEE PacificVis Symposium* [H5: 21] [CC: 17].

C5



#### Matches, Mismatches, and Methods:

#### Multiple-View Workflows for Energy Portfolio Analysis

Matthew Brehmer, Jocelyn Ng, Kevin Tate, and Tamara Munzner.  
In Volume 22, Issue 1 (Jan. 2016) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Presented at IEEE VIS 2015) [AR: 21%] [CC: 17].

J5



**TimeLineCurator:**

**Interactive Authoring of Visual Timelines from Unstructured Text**

Johanna Fulda, Matthew Brehmer, and Tamara Munzner.

In Volume 22, Issue 1 (Jan. 2016) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Appeared at IEEE VIS 2015) [CC: 32].



**C-TOC (Cognitive Testing on Computer):**

**Investigating the Usability and Validity of a Novel Self-administered Cognitive Assessment Tool in Aging and Early Dementia**

Claudia Jacova, Joanna McGrenere, Hyunsoo S. Lee, William Wang, Sarah Le Huray, Emily F. Corenblith, Matthew Brehmer, Charlotte Tang, Sherri Hayden, B. Lynn Beattie, and Ging-Yuek R. Hsiung.

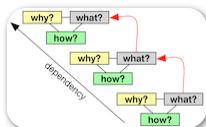
In *Alzheimer Disease and Associated Disorders* (July 2015) [CC: 6].



**Overview: The Design, Adoption, and Analysis of a Visual Document Mining Tool For Investigative Journalists**

Matthew Brehmer, Stephen Ingram, Jonathan Stray, and Tamara Munzner.

In Volume 20, Issue 12 (Dec. 2014) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Presented at IEEE VIS 2014) [AR: 23%] [CC: 58].

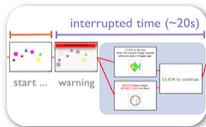


**A Multi-Level Typology of Abstract Visualization Tasks**

Matthew Brehmer and Tamara Munzner.

In Volume 19, Issue 12 (Dec. 2013) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 63] (Presented at IEEE VIS 2013) [AR: 25%] [CC: 305].

QS THE MOST CITED IEEE INFOVIS PAPER SINCE 2013.



**Investigating Interruptions in the Context of**

**Computerized Cognitive Testing for Older Adults**

Matthew Brehmer, Joanna McGrenere, Charlotte Tang, and Claudia Jacova.

In *Proceedings of the 2012 ACM Conference on Human Factors in Computing Systems (CHI)* [H5: 86] [AR: 23%] [CC: 9].



**The Haptic Crayola Effect:**

**Exploring the Role of Naming in Learning Haptic Stimuli**

Inwook Hwang, Karon MacLean, Matthew Brehmer, Jeff Hendy, Andreas Sotirkopoulos, and Seungmoon Choi.

In *Proceedings of the 2011 IEEE World Haptics Conference* [CC: 9].



**Activate Your GAIM: A Toolkit for Input in Active Games**

Matthew Brehmer, Nicholas Graham, and Tadeusz Stach.

In *Proceedings of the 2010 ACM Future Play Conference* [CC: 13].



**Classifying Input for Active Games**

Tadeusz Stach, Nicholas Graham, Matthew Brehmer and Andreas Hollatz.

In *Proceedings of the 2009 ACM Conference on Advances in Computer Entertainment Technology (ACE)* [CC: 17].



### Reflecting on the Evaluation of Visualization Authoring Systems

Donghao Ren, Bongshin Lee, Matthew Brehmer, and Nathalie H. Riche.  
In the *Proceedings of the 2018 BELIV Workshop: Evaluation and Beyond - Methodological Approaches for Visualization*.

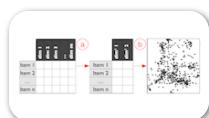
W5



### Data Visualization on Mobile Devices

Bongshin Lee, Matthew Brehmer, Eun Kyung Choe, Petra Isenberg, Ricardo Langer, and Raimund Dachselt.  
In *Extended Abstract Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems (CHI)* [CC: 1].

W4



### Visualizing Dimensionally-Reduced Data:

**Interviews with Analysts and a Characterization of Task Sequences**  
Matthew Brehmer, Michael Sedlmaier, Stephen Ingram, and Tamara Munzner.  
In *Proceedings of the 2014 ACM BELIV Workshop: Beyond Time and Errors - Novel Evaluation Methods for Visualization* [CC: 48].

W3



### Pre-Design Empiricism for Information Visualization:

#### Scenarios, Methods, and Challenges

Matthew Brehmer, Sheelagh Carpendale, Bongshin Lee, and Melanie Tory.  
In *Proceedings of the 2014 ACM BELIV Workshop: Beyond Time and Errors - Novel Evaluation Methods for Visualization* [CC: 19].

W2



### A Tale of Two Studies: Investigating the Impact of Interruptions on Task Performance in Older Adults

Matthew Brehmer, Charlotte Tang, Joanna McGrenere, and Claudia Jacova.  
In the *Work-In-Progress Proceedings of the the 2011 GRAND NCE AGM*.

W1

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



### Evaluating Data-Driven Stories & Storytelling Tools

Fereshteh Amini\*, Matthew Brehmer\*, Gordon Bolduan, Christina Elmer, and Benjamin Wiederkehr (\* contributed equally).  
In *Data-Driven Storytelling*, edited by Sheelagh Carpendale, Nicholas Diakopoulos, Christophe Hurter, Nathalie H. Riche (CRC Press, 2018).

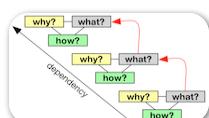
BC1



### Demonstrating the Value of Visualization:

**Highlights from the 2017 PacificVis Visual Data Storytelling Contest**  
Matthew Brehmer, Kyungwon Lee, Ivan Viola, Jinwook Seo, and Bongshin Lee.  
In *Poster Proceedings of the 2017 IEEE VIS Conference*.

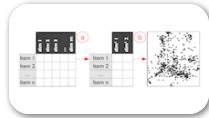
P1



### Why Visualization? Task Abstraction for Analysis and Design

Matthew Brehmer.  
University of British Columbia PhD Dissertation (2016).

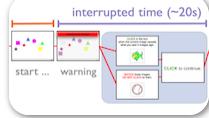
T3



### Dimensionality Reduction in the Wild: Gaps and Guidance

Michael Sedlmaier, Matthew Brehmer, Stephen Ingram, and Tamara Munzner.  
University of British Columbia Technical Report TR-2012-03 (2012) [CC: 24].

TR1



### Usability and the Effects of Interruption in C-TOC:

**Self-Administered Cognitive Testing on a Computer**  
Matthew Brehmer.  
University of British Columbia MSc Thesis (2011) [CC: 3].

T2



### Assessing the Effect of Exercise Intensity on Cognitive Task Performance in an Exercise Video Game

Matthew Brehmer.  
Queen's University B.Comp Thesis (2009).

T1

## TALKS

Slides available at [mattbrehmer.github.io/#talks](https://mattbrehmer.github.io/#talks).  = video available.

<b>Constraints and Opportunities for Expressive Information Design</b> Tableau Research (Seattle, USA)	2019 / 04 / 09
<b>Visualizing Information on Mobile Phones: Recent Experiments, Novel Interactions, &amp; Prospects for the Future</b> Microsoft Research (Redmond, USA)	2019 / 03 / 13
<b>Constraints and Opportunities for Expressive Information Design</b> Uncharted Software (Toronto, Canada)	2019 / 03 / 01
<b>Considerations for Interactive &amp; Expressive Information Design Tools</b> University of Ontario Institute of Technology (Oshawa, Canada)	2019 / 02 / 27
<b>Considerations for Interactive &amp; Expressive Information Design Tools</b> Autodesk Research (Toronto, Canada)	2019 / 02 / 26
<b>Timeline Storyteller: The Design &amp; Deployment of an Interactive Authoring Tool for Expressive Timeline Narratives</b> The Computation + Journalism Symposium (Coral Gables, USA)  ASSOCIATED CONFERENCE PAPER: C7	2019 / 02 / 02
<b>Constraints and Opportunities for Expressive Information Design</b> Simon Fraser University School of Interactive Arts & Technology (Surrey, Canada)	2019 / 01 / 28
<b>Visualizing Ranges over Time on Mobile Phones</b> IEEE VIS 2018 (Berlin, Germany)  ASSOCIATED JOURNAL PAPER: J8	2018 / 10 / 24
<b>Tools for Expressive Information Visualization Design</b> Microsoft Vancouver Data Visualization Symposium (Vancouver, Canada)	2018 / 08 / 01
<b>Timeline Storyteller, from Visualization Design Space to Deployment</b> Data Empowerment Speaker Series (University of Calgary, Canada)	2018 / 06 / 18
<b>Data-Driven Storytelling at Microsoft</b> UBC School of Journalism Course on Special Topics in Contemporary Journalism: Data Viz (JRNL 520H) (Vancouver, Canada)	2017 / 10 / 24
<b>Timelines Revisited: Considerations for Expressive Storytelling</b> IEEE VIS 2017 (Phoenix, USA) ASSOCIATED JOURNAL PAPER: J6	2017 / 10 / 03
<b>Expressive Storytelling With Timelines</b> Uber Visualization Night: A Journey Through Space and Time (Seattle, USA)	2017 / 08 / 31
<b>Timelines Revisited: Considerations for Expressive Storytelling</b> King's College London Department of Informatics (London, UK)	2017 / 07 / 11
<b>Timelines Revisited: Considerations for Expressive Storytelling</b> City University London giCentre (London, UK)	2017 / 07 / 10
<b>The Timeline Storyteller Custom Visual for Power BI</b> Microsoft Data Insights Summit BI Power Hour (Seattle, USA) 	2017 / 06 / 13
<b>Timelines Revisited: Considerations for Expressive Storytelling</b> Northeastern University NUVIS Visualization Consortium (Boston, USA)	2017 / 04 / 28
<b>Timelines Revisited: Considerations for Expressive Storytelling</b> Bentley University RealViz talk series (Waltham, USA)	2017 / 04 / 27
<b>What Story Does Your Timeline Tell?</b> OpenVisConf 2017 (Boston, USA)	2017 / 04 / 24
<b>Timelines Revisited: Considerations for Expressive Storytelling</b> Radcliffe Institute at Harvard University (Cambridge, USA)	2016 / 12 / 08

## TALKS (CONT.)

<b>Why Visualization? Task Abstraction for Analysis and Design</b> Dissertation Defence (Vancouver, Canada)	2016 / 03 / 23
<b>Storytelling with Timeline Data</b> Data-Driven Storytelling Dagstuhl Seminar (Wadern, Germany)	2016 / 02 / 11
<b>Why Visualization? Task Abstraction for Analysis and Design</b> Microsoft Research (Redmond, USA) 	2016 / 02 / 01
<b>Matches, Mismatches, and Methods: Multiple-View Workflows for Energy Portfolio Analysis</b> IEEE VIS 2015 (Chicago, USA) 	2015 / 10 / 28
ASSOCIATED JOURNAL PAPER: J5	
<b>Multiple-View Workflows for Energy Portfolio Analysis</b> University of Washington (Seattle, USA)	2015 / 09 / 04
<b>The Future of Data and Design ... In Visualization Research</b> Vancouver Data Visualization Meetup (Vancouver, Canada)	2015 / 05 / 19
<b>Overview: The Design, Adoption, and Analysis of a Visual Document Mining Tool For Investigative Journalists</b> IEEE VIS 2014 (Paris, France) 	2014 / 11 / 14
ASSOCIATED JOURNAL PAPER: J2	
<b>Visualizing Dimensionally-Reduced Data: Interviews with Analysts and a Characterization of Task Sequences</b> ACM BELIV 2014 (Paris, France)	2014 / 11 / 10
ASSOCIATED WORKSHOP PAPER: W3	
<b>Pre-Design Empiricism for Information Visualization</b> ACM BELIV 2014 (Paris, France)	2014 / 11 / 10
ASSOCIATED WORKSHOP PAPER: W2	
<b>Visualization Task Abstraction from Multiple Perspectives</b> IEEE VIS Doctoral Colloquium 2014 (Paris, France)	2014 / 11 / 08
<b>A Multi-Level Typology of Abstract Visualization Tasks</b> IEEE VIS 2013 (Atlanta, USA)	2013 / 10 / 15
ASSOCIATED JOURNAL PAPER: J1	
<b>Investigating Interruptions in the Context of Computerized Cognitive Testing for Older Adults</b> ACM CHI 2012 (Austin, USA)	2012 / 05 / 10
ASSOCIATED CONFERENCE PAPER: C4	
<b>The Impact of Interruptions on Task Performance in Older Adults</b> GRAND NCE AGM 2011 (Vancouver, Canada)	2011 / 05 / 14

## DEMONSTRATIONS

<b>Tilt and Pose-Based Gesture Interaction</b> Microsoft TechFest 2019 (Redmond, USA)	2019 / 03 / 04 - 06
<b>Timeline Storyteller</b> The Computation + Journalism Symposium (Coral Gables, USA)	2019 / 02 / 01
<b>Charticulator</b> Tapestry Conference 2018 (Coral Gables, USA)	2018 / 12 / 01
<b>Timeline Storyteller</b> Microsoft Research Week (Redmond, USA)	2017 / 03 / 09
<b>Timeline Storyteller</b> Tapestry Conference 2017 (St. Augustine, USA)	2017 / 03 / 01

## COMMUNITY SERVICE

### ORGANIZING COMMITTEES

IEEE VIS (Co-Chair, VisInPractice)	2018, 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 Information Visualization (InfoVis)	2017, 2018, 2019
Computation + Journalism (C+J)	2019
Information+	2018
VISAP: The IEEE VIS Arts Program	2018
BELIV: Evaluation and 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

IEEE Conference on Information Visualization (InfoVis)	2013 - 2016
ACM Conference on Human Factors in Computing Systems (CHI)	2013 - 2019
EuroGraphics / VGTC Conference on Visualization (EuroVis)	2014 - 2019
IEEE Pacific Visualization Symposium (PacificVis)	2017, 2019
IEEE Transactions on Visualization and Computer Graphics (TVCG)	2015 - 2018
SAGE Information Visualization Journal	2015 - 2016
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

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 And 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
--	------------------------

### ASSOCIATIONS

Data Visualization Society	2019 -
----------------------------	--------

## UNIVERSITY SERVICE

---

### UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF COMPUTER SCIENCE

Graduate Admissions and 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 J7 (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