

# MATTHEW BREHMER

CV – AUG. 2021

## CONTACT

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Code 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

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+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 researcher working at the intersection of information visualization and human-computer interaction. My research interests include: creative expression with data for communication and presentation, visualization and interaction design for devices large and small, and the visualization of time-oriented data.

## EXPERTISE

### VISUALIZATION AND INTERFACE DESIGN

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

### QUALITATIVE HUMAN FACTORS RESEARCH

Data collection via retrospective interviews, observational studies, think-aloud usability studies, and design probes; data analysis via thematic coding and affinity diagramming.

### QUANTITATIVE HUMAN FACTORS RESEARCH

Experimental design for laboratory- and web-based experiments to evaluate visual 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 and 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 and 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 Researcher 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](http://mattbrehmer.ca/#pubs).  
My current H index is 18 (GOOGLE SCHOLAR, AUG. 2021): AR = acceptance rate, H5 = H5 index, CC = citation count.

### PEER-REVIEWED JOURNAL AND CONFERENCE PAPERS



#### Generative Design Inspiration for Glyphs with Diatoms

Matthew Brehmer, Robert Kosara, and Carmen Hull.

To appear in *IEEE Transactions on Visualization and Computer Graphics* [AR: 26%] [H5: 82]

(To appear at IEEE VIS 2021).

TVCG22A



#### From Jam Session to Recital: Synchronous Communication and Collaboration Around Data in Organizations

Matthew Brehmer and Robert Kosara.

To appear in *IEEE Transactions on Visualization and Computer Graphics* [AR: 26%] [H5: #82] [CC: 1]

(To appear at IEEE VIS 2021).

TVCG22B



#### QualDash: Adaptable Generation of Visualisation Dashboards for Healthcare Quality Improvement

Mai Elshehaly, Rebecca Randell, Matthew Brehmer, Lynn McVey, Natasha Alvarado, Chris P. Gale, and Roy A. Ruddle.

Volume 27, Issue 2 (Feb. 2021) of *IEEE Transactions on Visualization and Computer Graphics*

(Appeared at IEEE VIS 2020) [H5: 82] [CC: 4].

TVCG21

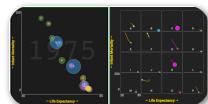


#### Orchard: Exploring Multivariate Heterogeneous Networks on Mobile Phones

Philipp Eichmann, Darren Edge, Nathan Evans, Bongshin Lee, Matthew Brehmer, and Christopher White.

Volume 29, Issue 3 (2020) of *Computer Graphics Forum* (Appeared at EuroVis 2020) [H5: 60] [CC: 5].

CGF20



#### A Comparative Evaluation of Animation and Small Multiples for Trend Visualization on Mobile Phones

Matthew Brehmer, Bongshin Lee, Petra Isenberg, and Eun Kyung Choe.

Volume 26, Issue 1 (Jan. 2020) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 82] (Presented at IEEE VIS 2019) [AR: 26%] [CC: 23].

TVCG20A



#### Critical Reflections on Visualization Authoring Systems

Arvind Satyanarayanan, 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 and Computer Graphics* [H5: 82]

(Appeared at IEEE VIS 2019) [AR: 26%] [CC: 38].

TVCG20B

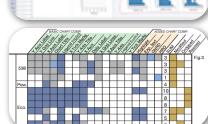


#### Inking Your Insights: Investigating Digital Externalization Behaviors During Data Analysis

Yea-Seul Kim, Nathalie Henry Riche, Bongshin Lee, Matthew Brehmer, Michel Pahud, Ken Hinckley, and Jessica Hullman.

In *Proceedings of the 2019 ACM Conference on Interactive Surfaces and Space (ISS)* [CC: 6].

ISS19

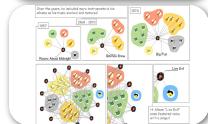


#### thumbnails for Data Stories: A Survey of Current Practices

Hwiyeon Kim, Juyoung Oh, Yunha Han, Sungahn Ko, Matthew Brehmer, and BC Kwon.

In *Short Paper Proceedings of IEEE VIS 2019* [AR: 32%] [H5: 11] [CC: 1].

VIS19



#### 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.

In *Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems (CHI)*

[H5: 101] [AR: 24%] [CC: 31].

CHI19



#### 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* [CC: 8].

C+J19



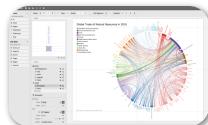
#### Visualizing Ranges over Time on Mobile Phones: A Task-Based Crowdsourced Evaluation

Matthew Brehmer, Bongshin Lee, Petra Isenberg, and Eun Kyung Choe.

In Volume 25, Issue 1 (Jan. 2019) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 82]

(Presented at IEEE VIS 2018) [AR: 25%] [CC: 30].

TVCG19A



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

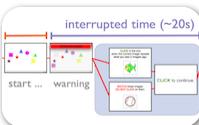
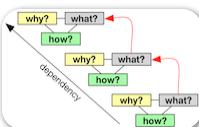
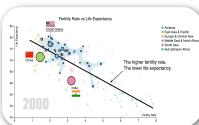
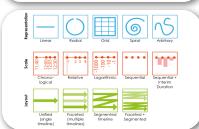
Donghao Ren, Bongshin Lee, and Matthew Brehmer.

In Volume 25, Issue 1 (Jan. 2019) of *IEEE Transactions on Visualization and Computer Graphics* [H5: 82]

(Appeared at IEEE VIS 2018) [AR: 25%] [CC: 67].



TVCG19B



**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: 101] [AR: 26%] [CC: 18].

CHI18

**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: 82] (Presented at IEEE VIS 2017) [CC: 121].

TVCG17

**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: 18] [CC: 66].

PVIS17

**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: 82] (Presented at IEEE VIS 2015) [AR: 21%] [CC: 33].

TVCG16A

**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: 82] (Appeared at IEEE VIS 2015) [CC: 63].

TVCG16B

**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: 15].

ADAD15

**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: 82] (Presented at IEEE VIS 2014) [AR: 23%] [CC: 105].

TVCG14

**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: 82] (Presented at IEEE VIS 2013) [AR: 25%] [CC: 553].  
QR THE MOST CITED IEEE INFOVIS PAPER SINCE 2013.

TVCG13

**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: 101] [AR: 23%] [CC: 12].

CHI12

**The Haptic Crayola Effect:**  
**Exploring the Role of Naming in Learning Haptic Stimuli**  
Inwook Hwang, Karon MacLean, Matthew Brehmer, Jeff Hendy, Andreas Sotirokopoulos, and Seungmoon Choi.  
In *Proceedings of the 2011 IEEE World Haptics Conference* [CC: 11].

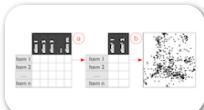
WHC11

**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].

FP10

**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: 27].

ACE09



#### 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* [cc: 21].

BELIV18

#### 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: 19].

CHI-EA18

#### Visualizing Dimensionally-Reduced Data:

##### Interviews with Analysts and a Characterization of Task Sequences

Matthew Brehmer, Michael Sedlmair, Stephen Ingram, and Tamara Munzner.

In *Proceedings of the 2014 ACM BELIV Workshop: Beyond Time and Errors - Novel Evaluation Methods for Visualization* [cc: 83].

BELIV14A

#### 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: 31].

BELIV14B

#### 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*.

GRAND11

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



#### Interacting with Visualization on Mobile Devices

Matthew Brehmer, Bongshin Lee, John Stasko, and Christian Tominski.

To appear in *Mobile Data Visualization*, edited by Bongshin Lee, Raimund Dachselt, Petra Isenberg, Eun Kyung Choe (CRC Press, 2021).

MDV<sup>A</sup>



#### Responsive Visualization Design for Mobile Devices

Tom Horak, Wolfgang Aigner, Matthew Brehmer, Alark Joshi, and Christian Tominski.

To appear in *Mobile Data Visualization*, edited by Bongshin Lee, Raimund Dachselt, Petra Isenberg, Eun Kyung Choe (CRC Press, 2021).

MDV<sup>B</sup>



#### 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) [cc: 3].

DDS18



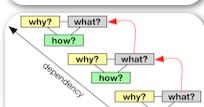
#### Demonstrating the Value of Visualization:

##### 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*.

VIS17

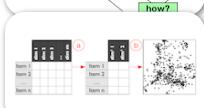


#### Why Visualization? Task Abstraction for Analysis and Design

Matthew Brehmer.

University of British Columbia PhD Dissertation (2016).

T16



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

Michael Sedlmair, Matthew Brehmer, Stephen Ingram, and Tamara Munzner.

University of British Columbia Technical Report TR-2012-03 (2012) [cc: 29].

TR2012



#### 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].

T11



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

Matthew Brehmer.

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

T09

## TALKS

Slides available at [mattbrehmer.ca/#talks](http://mattbrehmer.ca/#talks).  = video available.

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 and Understand Networks (with Scott Sherman) Tableau Conference (Las Vegas, USA) 	2019/11/13
A Comparative Evaluation of Animation and 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 and Statistics (SDSS) (Bellevue, USA)	2019/05/30
Visualizing Quantities & Events Over Time Chatham Labs (Toronto, Canada)	2019/04/25
Constraints and 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 and 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 and 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 Course on Special 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 and 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
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

## TALKS (CONT.)

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Timelines Revisited: Considerations for Expressive Storytelling Radcliffe Institute at Harvard University (Cambridge, USA)	2016 / 12 / 08
Why Visualization? Task Abstraction for Analysis and 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 and Design Microsoft Research (Redmond, USA) 	2016 / 02 / 01
Matches, Mismatches, and 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 and Design ... In Visualization Research Vancouver Data Visualization Meetup (Vancouver, Canada)	2015 / 05 / 19
Overview: The Design, Adoption, and 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 and 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

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Tilt and 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 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

EuroGraphics / VGTC Conference on Visualization (EuroVis)	2014 - 2021
IEEE Transactions on Visualization and Computer Graphics (TVCG)	2015 - 2021
SAGE Information Visualization Journal	2015 - 2021
IEEE Conference on Information Visualization (InfoVis)	2013 - 2016, 2020
ACM Conference on Human Factors in Computing Systems (CHI)	2013 - 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 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
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### PROFESSIONAL ASSOCIATIONS

Data Visualization Society Board of Directors Nomination Committee	2020 - 2021
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## UNIVERSITY SERVICE

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### 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

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### 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