

# MATTHEW BREHMER

CV — DEC. 2021

## CONTACT

mb@mattbrehmer.ca

+1-206-665-9232

🖱️ mattbrehmer.ca

🐦 @mattbrehmer

🌐 mattbrehmer

📧 mattbrehmer

🔗 mattbrehmer

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.

## EDUCATION

### DOCTOR OF PHILOSOPHY, COMPUTER SCIENCE

2011 - 2016

University of British Columbia (UBC), Vancouver, Canada

DISSERTATION: *Why Visualization? Task Abstraction for Analysis & Design*

SUPERVISORS: Tamara Munzner (UBC CS), Joanna McGrenere (UBC CS), Ronald 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: Joanna McGrenere (UBC Computer Science), Claudia Jacova (UBC Medicine)

### BACHELOR OF COMPUTING

2004 - 2009

Specialization in Cognitive Science with Professional Internship

Queen's University, Kingston, Canada

HONOURS PROJECT: *Assessing the Effect of Exercise Intensity on Cognitive Task Performance in an Exercise Video Game*

HONOURS PROJECT SUPERVISOR: T. C. Nicholas Graham (Queen's University School of Computing)

## EMPLOYMENT EXPERIENCE

### Senior Research Staff

2019 —

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





 icons link to author copies / pre-prints, which are also provided at [mattbrehmer.ca/#pubs](https://mattbrehmer.ca/#pubs).  
My current h index is 18 (GOOGLE SCHOLAR, DEC. 2021). Abbreviations: AR = acceptance rate, CC = citation count.

### PEER-REVIEWED JOURNAL AND CONFERENCE PAPERS

-  **Generative Design Inspiration for Glyphs with Diatoms** TVCG-22a  
[Matthew Brehmer](#), Robert Kosara, & Carmen Hull.  
To appear in *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS 2021). AR: 26%
-  **From Jam Session to Recital: Synchronous Communication & Collaboration Around Data in Organizations** TVCG-22b  
[Matthew Brehmer](#) & Robert Kosara.  
To appear in *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS 2021). AR: 26% CC: 1
-  **QualDash: Adaptable Generation of Visualisation Dashboards for Healthcare Quality Improvement** TVCG-21  
Mai Elshehaly, Rebecca Randell, [Matthew Brehmer](#), Lynn McVey, Natasha Alvarado, Chris P. Gale, & Roy A. Ruddle.  
In Vol. 27-2 (Feb. 2021) of *IEEE Transactions on Visualization & Computer Graphics* (Appeared at IEEE VIS 2020). CC: 6
-  **Orchard: Exploring Multivariate Heterogeneous Networks on Mobile Phones** CGF-20  
Philipp Eichmann, Darren Edge, Nathan Evans, Bongshin Lee, [Matthew Brehmer](#), & Christopher White.  
In Vol. 29-3 (2020) of *Computer Graphics Forum* (Appeared at EuroVis 2020). CC: 8
-  **A Comparative Evaluation of Animation & Small Multiples for Trend Visualization on Mobile Phones** TVCG-20a  
[Matthew Brehmer](#), Bongshin Lee, Petra Isenberg, & Eun Kyoung Choe.  
In Vol. 26-1 (Jan. 2020) of *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS / InfoVis 2019).  
AR: 26% CC: 30
-  **Critical Reflections on Visualization Authoring Systems** TVCG-20b  
Arvind Satyanarayan, Bongshin Lee, Donghao Ren, Jeffrey Heer, John Stasko, John R. Thompson, [Matthew Brehmer](#),  
and Zhicheng Liu.  
In Vol. 26-1 (Jan. 2020) of *IEEE Transactions on Visualization & Computer Graphics* (Appeared at IEEE VIS / InfoVis 2019).  
AR: 26% CC: 43
-  **Thumbnails for Data Stories: A Survey of Current Practices** VIS-19  
Hwiyeon Kim, Juyoung Oh, Yunha Han, Sungahn Ko, [Matthew Brehmer](#), & BC Kwon.  
In *Short Paper Proceedings of IEEE VIS 2019*. AR: 32% CC: 5
-  **Inking Your Insights: Investigating Digital Externalization Behaviors During Data Analysis** ISS-19  
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
-  **DataToon: Drawing Dynamic Network Comics With Pen + Touch Interaction** CHI-19  
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)*. AR: 24% CC: 34
-  **Timeline Storyteller: The Design & Deployment of an Interactive Authoring Tool for Expressive Timeline Narratives** C+J-19  
[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: A Task-Based Crowdsourced Evaluation** TVCG-19a  
[Matthew Brehmer](#), Bongshin Lee, Petra Isenberg, & Eun Kyoung Choe.  
In Vol. 25-1 (Jan. 2019) of *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS / InfoVis 2018).  
AR: 25% CC: 37
-  **Charticulator: Interactive Construction of Bespoke Chart Layouts** TVCG-19b  
Donghao Ren, Bongshin Lee, & [Matthew Brehmer](#).  
In Vol. 25-1 (Jan. 2019) of *IEEE Transactions on Visualization & Computer Graphics* (Appeared at IEEE VIS / InfoVis 2018).  
AR: 25% CC: 73
-  IEEE INFOVIS BEST PAPER HONORABLE MENTION AWARD

-  **What's the Difference? Evaluating Variants of Multi-Series Bar Charts for Visual Comparison Tasks** CHI-18  
Arjun Srinivasan, [Matthew Brehmer](#), Bongshin Lee, & Steven Drucker.  
In *Proc. of the 2018 ACM Conference on Human Factors in Computing Systems (CHI)*. AR: 26% CC: 20
-  **Timelines Revisited: A Design Space & Considerations for Expressive Storytelling** TVCG-17  
[Matthew Brehmer](#), Bongshin Lee, Benjamin Bach, Nathalie H. Riche, and Tamara Munzner.  
In Vol. 23-9 (Sept. 2017) of *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS 2017). CC: 134
-  **ChartAccent: Annotation for Data-Driven Storytelling** PVIS-17  
Donghao Ren, [Matthew Brehmer](#), Bongshin Lee, Tobias Höllerer, and Eun Kyoung Choe.  
In *Proc. of the 2017 IEEE PacificVis Symposium*. CC: 75
-  **Matches, Mismatches, & Methods: Multiple-View Workflows for Energy Portfolio Analysis** TVCG-16A  
[Matthew Brehmer](#), Jocelyn Ng, Kevin Tate, & Tamara Munzner.  
In Vol. 22-1 (Jan. 2016) of *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS / InfoVis 2015). AR: 21% CC: 34
-  **TimeLineCurator: Interactive Authoring of Visual Timelines from Unstructured Text** TVCG-16B  
Johanna Fulda, [Matthew Brehmer](#), & Tamara Munzner.  
In Vol 22-1 (Jan. 2016) of *IEEE Transactions on Visualization & Computer Graphics* (Appeared at IEEE VIS / VAST 2015).  
CC: 66
- C-TOC (Cognitive Testing on Computer): Investigating the Usability & Validity of a Novel Self-administered Cognitive Assessment Tool in Aging & Early Dementia** ADAD-15  
Claudia Jacova, Joanna McGrenere, Hyunsoo S. Lee, William Wang, Sarah Le Huray, Emily F. Corenblith, [Matthew Brehmer](#), Charlotte Tang, Sherri Hayden, B. Lynn Beattie, & Ging-Yuek R. Hsiung.  
In *Alzheimer Disease & Associated Disorders (July 2015)*. CC: 15
-  **Overview: The Design, Adoption, & Analysis of a Visual Document Mining Tool For Investigative Journalists** TVCG-14  
[Matthew Brehmer](#), Stephen Ingram, Jonathan Stray, & Tamara Munzner.  
In Vol. 20-12 (Dec. 2014) of *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS / InfoVis 2014). AR: 23% CC: 110
-  **A Multi-Level Typology of Abstract Visualization Tasks** TVCG-13  
[Matthew Brehmer](#) & Tamara Munzner.  
In Volume 19-12 (Dec. 2013) of *IEEE Transactions on Visualization & Computer Graphics* (Presented at IEEE VIS / InfoVis 2013). AR: 25% CC: 579  
 THE MOST CITED IEEE INFOVIS PAPER SINCE 2013.
-  **Investigating Interruptions in the Context of Computerized Cognitive Testing for Older Adults** CHI-12  
[Matthew Brehmer](#), Joanna McGrenere, Charlotte Tang, & Claudia Jacova.  
In *Proc. of the 2012 ACM Conference on Human Factors in Computing Systems (CHI)*. AR: 23% CC: 13
-  **The Haptic Crayola Effect: Exploring the Role of Naming in Learning Haptic Stimuli** WHC-11  
Inwook Hwang, Karon MacLean, [Matthew Brehmer](#), Jeff Hendy, Andreas Sotirkopoulos, & Seungmoon Choi.  
In *Proc. of the 2011 IEEE World Haptics Conference*. CC: 11
-  **Activate Your GAIM: A Toolkit for Input in Active Games** FP-10  
[Matthew Brehmer](#), Nicholas Graham, & Tadeusz Stach.  
In *Proc. of the 2010 ACM Future Play Conference*. CC: 13
-  **Classifying Input for Active Games** ACE-09  
Tadeusz Stach, Nicholas Graham, [Matthew Brehmer](#) & Andreas Hollatz.  
In *Proc. of the 2009 ACM Conference on Advances in Computer Entertainment Technology (ACE)*. CC: 27






## PEER-REVIEWED WORKSHOP PAPERS

-  **Reflecting on the Evaluation of Visualization Authoring Systems** BELIV-18  
Donghao Ren, Bongshin Lee, [Matthew Brehmer](#), & Nathalie H. Riche.  
In the *Proc. of the 2018 BELIV Workshop: Evaluation & Beyond - Methodological Approaches for Visualization* cc: 22.
-  **Data Visualization on Mobile Devices** CHI-EA-18  
Bongshin Lee, [Matthew Brehmer](#), Eun Kyoung Choe, Petra Isenberg, Ricardo Langer, & Raimund Dachsel.  
In *Extended Abstract Proc. of the 2018 ACM Conference on Human Factors in Computing Systems (CHI)* cc: 24.
-  **Visualizing Dimensionally-Reduced Data: Interviews with Analysts & a Characterization of Task Sequences** BELIV-14A  
[Matthew Brehmer](#), Michael Sedlmair, Stephen Ingram, & Tamara Munzner.  
In *Proc. of the 2014 ACM BELIV Workshop: Beyond Time & Errors - Novel Evaluation Methods for Visualization* cc: 83.
-  **Pre-Design Empiricism for Information Visualization: Scenarios, Methods, & Challenges** BELIV-14B  
[Matthew Brehmer](#), Sheelagh Carpendale, Bongshin Lee, & Melanie Tory.  
In *Proc. of the 2014 ACM BELIV Workshop: Beyond Time & Errors - Novel Evaluation Methods for Visualization* cc: 32.

## BOOK CHAPTERS

- Interacting with Visualization on Mobile Devices** MDV-21A  
[Matthew Brehmer](#), Bongshin Lee, John Stasko, & Christian Tominski.  
To appear in *Mobile Data Visualization*, edited by B. Lee, R. Dachsel, P. Isenberg, E. K. Choe (CRC Press, 2021).
- Responsive Visualization Design for Mobile Devices** MDV-21B  
Tom Horak, Wolfgang Aigner, [Matthew Brehmer](#), Alark Joshi, & Christian Tominski.  
To appear in *Mobile Data Visualization*, edited by B. Lee, R. Dachsel, P. Isenberg, E. K. Choe (CRC Press, 2021).
- Evaluating Data-Driven Stories & Storytelling Tools** DDS-18  
Fereshteh Amini\*, [Matthew Brehmer](#)\* (contributed equally), Gordon Bolduan, Christina Elmer, & Benjamin Wiederkehr.  
In *Data-Driven Storytelling*, edited by S. Carpendale, N. Diakopoulos, C. Hurter, N. H. Riche (CRC Press, 2018) cc: 9.

## OTHER PUBLICATIONS: CONFERENCE ABSTRACTS, TECHNICAL REPORTS, POSTERS, THESES

-  **Demonstrating the Value of Visualization: Highlights from the 2017 PacificVis Visual Data Storytelling Contest** VIS-17  
[Matthew Brehmer](#), Kyungwon Lee, Ivan Viola, Jinwook Seo, & Bongshin Lee.  
In *Poster Proceedings of the 2017 IEEE VIS Conference*.
- Why Visualization? Task Abstraction for Analysis & Design** T-16  
[Matthew Brehmer](#).  
University of British Columbia PhD Dissertation (2016).
-  **Dimensionality Reduction in the Wild: Gaps & Guidance** TR-2012  
Michael Sedlmair, [Matthew Brehmer](#), Stephen Ingram, & Tamara Munzner.  
University of British Columbia Technical Report TR-2012-03 (2012) cc: 47.
-  **Usability & the Effects of Interruption in C-TOC: Self-Administered Cognitive Testing on a Computer** T-11  
[Matthew Brehmer](#).  
University of British Columbia MSc Thesis (2011) cc: 3.
-  **A Tale of Two Studies: Investigating the Impact of Interruptions on Task Performance in Older Adults** GRAND-11  
[Matthew Brehmer](#), Charlotte Tang, Joanna McGrenere, & Claudia Jacova.  
In the *Work-In-Progress Proceedings of the the 2011 GRAND NCE AGM*.
-  **Assessing the Effect of Exercise Intensity on Cognitive Task Performance in an Exercise Video Game** T-09  
[Matthew Brehmer](#).  
Queen's University B.Comp Honours Project (2009).

Slides and videos available at [mattbrehmer.ca/#talks](https://mattbrehmer.ca/#talks).  icons link to the corresponding video.

 <b>Generative Design Inspiration for Glyphs with Diatoms</b> IEEE VIS 2021 (Virtual)	2021 / 10 / 29
 <b>From Jam Session to Concert Hall</b> IEEE VIS 2021 (Virtual, with Robert Kosara)	2021 / 10 / 27
<b>New Perspectives on Communicating with Visualization</b> University of Waterloo (Waterloo, Canada)	2021 / 10 / 08
 <b>The Information in Our Hands</b> Information+ Conference 2021 (Virtual)	2021 / 09 / 30
<b>Interactive Tools for Visualizing Data: Perspectives from Research + Practice</b> University of Victoria - Information Visualization - Guest Speaker Series (Virtual)	2021 / 02 / 10
 <b>Interactive Tools for Visualizing Data: Perspectives from Research + Practice</b> University of Edinburgh's online course for DataVis professionals (Virtual)	2020 / 06 / 24
 <b>See &amp; Understand Networks</b> Tableau Conference (Las Vegas, USA, with Scott Sherman)	2019 / 11 / 13
 <b>An Evaluation of Animation &amp; Small Multiples for Trend Visualization on Mobile Phones</b> IEEE VIS / InfoVis 2019 (Vancouver, Canada)	2019 / 10 / 23
<b>Crowdsourced Evaluation for Mobile Vis</b> Mobile Data Visualization Dagstuhl Seminar (Wadern, Germany)	2019 / 07 / 17
<b>Expressive Visualization Tools for Data-Driven Storytelling</b> ASA Symposium on Data Science & Statistics (SDSS) (Bellevue, USA)	2019 / 05 / 30
<b>Visualizing Quantities &amp; Events Over Time</b> Chatham Labs (Toronto, Canada)	2019 / 04 / 25
<b>Constraints &amp; Opportunities for Expressive Information Design</b> Tableau Research (Seattle, USA)	2019 / 04 / 09
<b>Visualizing Information on Mobile Phones</b> Microsoft Research (Redmond, USA)	2019 / 03 / 13
<b>Constraints &amp; 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: An Authoring Tool for Expressive Timeline Narratives</b> The Computation + Journalism Symposium (Coral Gables, USA)	2019 / 02 / 02
<b>Constraints &amp; 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 / InfoVis 2018 (Berlin, Germany)	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, 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)	2017 / 10 / 03
<b>Expressive Storytelling With Timelines</b> Uber Visualization Night: A Journey Through Space & 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

## TALKS (CONT.)

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- 🎥 **The Timeline Storyteller Custom Visual for Power BI** 2017 / 06 / 13  
Microsoft Data Insights Summit BI Power Hour (Seattle, USA)
- Timelines Revisited: Considerations for Expressive Storytelling** 2017 / 04 / 28  
Northeastern University NUVis Visualization Consortium (Boston, USA)
- 🎥 **Timelines Revisited: Considerations for Expressive Storytelling** 2017 / 04 / 27  
Bentley University RealViz talk series (Waltham, USA)
- 🎥 **What Story Does Your Timeline Tell?** 2017 / 04 / 24  
OpenVisConf 2017 (Boston, USA)
- Timelines Revisited: Considerations for Expressive Storytelling** 2016 / 12 / 08  
Radcliffe Institute at Harvard University (Cambridge, USA)
- Why Visualization? Task Abstraction for Analysis & Design** 2016 / 03 / 23  
Dissertation Defence (Vancouver, Canada)
- Storytelling with Timeline Data** 2016 / 02 / 11  
Data-Driven Storytelling Dagstuhl Seminar (Wadern, Germany)
- 🎥 **Why Visualization? Task Abstraction for Analysis & Design** 2016 / 02 / 01  
Microsoft Research (Redmond, USA)
- 🎥 **Matches, Mismatches, & Methods: Workflows for Energy Portfolio Analysis** 2015 / 10 / 28  
IEEE VIS / InfoVis 2015 (Chicago, USA)
- Multiple-View Workflows for Energy Portfolio Analysis** 2015 / 09 / 04  
University of Washington (Seattle, USA)
- The Future of Data & Design ... In Visualization Research** 2015 / 05 / 19  
Vancouver Data Visualization Meetup (Vancouver, Canada)
- 🎥 **Overview: The Design, Adoption, & Analysis of a Visual Document Mining Tool For Investigative Journalists** 2014 / 11 / 14  
IEEE VIS / InfoVis 2014 (Paris, France)
- Visualizing Dimensionally-Reduced Data:** 2014 / 11 / 10  
**Interviews with Analysts & a Characterization of Task Sequences**  
ACM BELIV 2014 (Paris, France)
- Pre-Design Empiricism for Information Visualization** 2014 / 11 / 10  
ACM BELIV 2014 (Paris, France)
- Visualization Task Abstraction from Multiple Perspectives** 2014 / 11 / 08  
IEEE VIS Doctoral Colloquium 2014 (Paris, France)
- A Multi-Level Typology of Abstract Visualization Tasks** 2013 / 10 / 15  
IEEE VIS / InfoVis 2013 (Atlanta, USA)
- Investigating Interruptions in the Context of** 2012 / 05 / 10  
**Computerized Cognitive Testing for Older Adults**  
ACM CHI 2012 (Austin, USA)
- The Impact of Interruptions on Task Performance in Older Adults** 2011 / 05 / 14  
GRAND NCE AGM 2011 (Vancouver, Canada)

## DEMONSTRATIONS

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

## 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 & Visual Analytics (VIS)	2021
Information+ Conference	2018, 2021
IEEE Conference on Information Visualization (VIS / 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 (VIS / InfoVis)	2013-16, 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, 17, 18
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)	2011,13,15,16
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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 & 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

## REFERENCES

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Dr. Tamara Munzner  
PROFESSOR, COMPUTER SCIENCE, UNIVERSITY OF BRITISH COLUMBIA  
✉ tmm@cs.ubc.ca | 📞 +1-604-827-5200

Dr. Bongshin Lee  
SENIOR PRINCIPAL RESEARCHER, MICROSOFT RESEARCH  
✉ 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