


Anamaria Crisan, PhD

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 ana.crisan@uwaterloo.ca


I have over 10 years of experience translating machine learning (ML) research into products and policy-making within industry, government, and academia. My track record includes award-winning publications at top-tier conferences of the ACM (CHI, FAccT) and IEEE (TVCG, CG&A) in addition to biomedical journals (Nature, Oxford Bioinformatics, PLOS). I serve on the organizing and program committees of the IEEE Vis and ACM CHI conferences. My goals are to help people make informed and trustworthy decisions with data and in partnership with AI/ML systems. My research has been cited nearly 5,000 times, my h-index is 19 and my i-10 index is 28.


Current Position

Aug 2024 - **Assistant Professor**, University of Waterloo
Cheriton School of Computer Science

Education





2015 - 2019 **PhD Computer Science**, University of British Columbia
Thesis: Visualizing Heterogenous Data in Genomic Epidemiology
Supervisors: Dr. Tamara Munzner and Dr. Jennifer L. Gardy
Committee: Dr. Raymond Ng and Dr. Bonnie Henry
 *Notable Awards:* Vanier CGS-D and UBC Public Scholar

2008 - 2010 **MSc Bioinformatics**, University of British Columbia
Thesis: Mutation Discovery in Regions of Segmental Cancer Genome Amplifications from Next Generation Sequencing of Tumours
Supervisors: Dr. Sohrab Shah and Dr. Samuel Aparicio
 *Notable Awards:* CIHR-MSFHR Bioinformatics Trainee Award

2004 - 2008 **BSc Computer Science**, Queen's University at Kingston
Specialization: Biomedical Computing
Honours Thesis: Genomics of Autism
Honours Thesis Supervisor: Dr. Hagit Shatkay
 *Notable Awards:* NSERC USRA, CRA-W Distributed Mentorship Trainee Award

Research Work Experience

2019 - 2024 **Lead Research Scientist, Tableau Research**
Seattle, Washington, USA

- I developed strategic research directions for human-ML/AI collaboration, including technical approaches and best practice toward responsible use of ML/AI
- I lead research projects in partnership with cross-functional engineering and product teams to inform, influence, and support ML/AI product strategy
- I contributed to the Tableau Main ( [Overcoming Misinformation](#),  [Data Science Reflection](#)) and Engineering Blog Sites ( [Interactive Machine Learning](#),  [AutoML and People](#))

- 2013 - 2015

Bioinformatician, British Columbia Centre for Disease Control
Vancouver, British Columbia, CANADA

 - Lead cutting edge research to integrate new genomic technology and machine learning into public health applications in British Columbia
 - Collaborated with international partners to establish standards for clinical genomic reporting in infectious diseases
- 2010 - 2013

Bioinformatician, Decipher Biosciences
Vancouver, British Columbia, CANADA

 - Start-up (then GenomeDx Biosciences) where I was employee 3, grew it up to 100 people, and which sold in 2021 \$600 million valuation.
 - I was the co-inventor of the flagship product : a genomic classifier that predicts metastatic prostate cancer post-surgery. This product is used in clinics today.
 - Participated in early funding rounds to raise over \$10 million

Awards

- 2024

IEEE Computer Graphics and Applications - Best Paper Runner-up
- 2024

ACM CHI'24 HEAL Workshop - Highlight Presentation
- 2023

ACM CHI'23 - Best Paper Honorable Mention
- 2021

ACM CHI'21 - Best Paper Honorable Mention
- 2021

Visualization in Data Science Symposium - Best Paper
- 2019

ABPHM Conference Software Prize
- 2018

Li Tze Fong Memorial Fellowship (\$25,000)
- 2018

UBC Public Scholar Award (\$5,000)
- 2015

UBC Four Year Fellowship (\$72,000)
- 2015

Vanier CGS-D (\$150,000)

Students

Current: 1 PhD, 4 MMath, 1 URF/URA

Publications refer to those listed in the publications sections of this CV

Doctoral

| Student | Duration | Project | Publications |
|--------------------|-----------|----------------------------------------|--------------|
| Li (Felicia) Feng* | 2024.09 - | Human-AI collaboration in Data Science | |

**co-supervised with Dr. Jian Zhao*

Masters

| Student | Duration | Project | Publications |
|---------------|-----------|-----------------------------------------------------------------------------|--------------|
| Xinxin Yu | 2024.09 - | AI-Supported Code Review and Refinement for Data Analysis and Visualization | |
| Sejal Agrawal | 2025.09 - | TBD | |
| Maksym Bidnyi | 2025.09 - | TBD | |
| Samiha Anuva | 2025.09 - | TBD | |

Undergraduate

Note: Undergraduate Research Fellowships (URFs) are intensive full-time research internships lasting 16 weeks. Undergraduate Research Assistantships (URAs) are part-time (5 hours/week) lasting 16 weeks.

| Student | Duration | Program | Project | Publications |
|-------------------------|-------------------|------------|--------------------------------------------------|--------------|
| Lianghan (Austing) Dong | 2025.01 - 2025.09 | URF URA | Personalized Explanations of Data Visualizations | ArXiv 2025 |

Graduate Supervisory Committees

Doctoral thesis committee membership is a multi-year commitment that encompasses, but is not limited to, annual meetings, proposal defense, thesis review, and final thesis defense. Masters (MMath) committee membership is shorter in duration (a few weeks) and includes reading and approving the thesis and attending the thesis presentation.

| Student | Program | Duration | Supervisor | Institution |
|------------------------|---------|-----------|----------------|------------------------|
| Gabriela Morgenshtern | PhD | 2025.01 - | Jurgen Bernard | University of Zurich |
| Zibo (Selena) Zhang | MMath | 2025.07 | Jian Zhao | University of Waterloo |
| Yuanhong (Allen) Zhang | MMath | 2025.08 | Anita Layton | University of Waterloo |
| Ansh Sharma | MMath | 2025.08 | Jim Wallace | University of Waterloo |

Courses

Click on the course title to go the syllabus and other course content

| Session | Course | Level | Class Size* | Title | Eval. (/5)** |
|---------|-----------|--------------------------|-------------|-------------------------------------|--------------|
| S25 | CS449/649 | Undergraduate & Graduate | 107 | Human Computer Interaction | TBD |
| W25 | CS889 | Graduate | 23 | Interfaces for Human-AI Interaction | 4.7 |

*maximum allowed course size for graduate class at UWaterloo is 24

**based upon the overall student course perception (scp) scores


Funding

| Award | Role | Year | Funder | Amount | Title |
|-----------------------------|------|------------|-----------|-----------|---------------------------------------------------------------------------------------------------|
| Discovery Grant | PI | 2025.03.21 | NSERC | \$210,000 | Visualization Interfaces and Techniques for Human-AI Collaboration in Data-Driven Decision Making |
| Discovery Launch Supplement | PI | 2025.03.21 | NSERC | \$12,500 | Visualization Interfaces and Techniques for Human-AI Collaboration in Data-Driven Decision Making |
| Start-up Grant | PI | 2024.09.01 | UWaterloo | \$150,000 | - |

The following organizations have also provided compute credits through researcher access programs: Google (\$5000 USD), Cohere (\$2000 CAD), and OpenAI (\$1000 USD).

Publications

I primarily publish in competitive top-tier venues of Human Computer Interaction (HCI) and Information Visualizations (Vis), with acceptance rates around 25% and stringent two rounds of peer review. These include, the ACM Conference on Human Factors in Computing Systems (CHI), ACM Conference on Fairness, Accountability, and Transparency (FAccT), and IEEE Trans. on Visualization and Computer Graphs (TVCG, also associated with the IEEE Vis conference). I also submit my research to competitive workshops, with at least one peer-review round, appearing at top-tier conferences (e.g., VIS, CHI, NeurIPs). Earlier in my career (prior to 2019) I published predominately in bioinformatics and medical science journals with high impact factors (e.g., Nature, Oxford Bioinformatics).

A full publication list with updated citation counts are available on my  [Google Scholar profile](#)

Note: § indicates joint authorship; † indicates senior author position; underline indicates my students work
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Pre-prints (Under Review)

ArXiv 2025 Dong L., Crisan A., *Probing the Visualization Literacy of Vision Language Models: the Good, the Bad, and the Ugly*. Currently Under Review
📄 10.48550/arXiv.2504.05445 🎥 Video 🔗 HuggingFace

Published

TiiS 2025 Hong M., Crisan A., *Data has Entered the Chat: How Data Workers Conduct Exploratory Visual Analytic Conversations with GenAI Agents*. ACM Transactions on Interactive Intelligent Systems (TiiS)
📄 10.1145/3744750

CUI 2025 Abolnejadian M., Amirshahi S, Brehmer M., Crisan A., *AInsight: Augmenting Expert Decision-Making with On-the-Fly Insights Grounded in Historical Data*. Proc. of CUI'25
📄 10.1145/3719160.3737633

CHI EA'25 Crisan A., McNutt A. *Linting is People! Exploring the Potential of Human Computation as a Sociotechnical Linter of Data Visualizations*. alt.CHI
📄 10.1145/3706599.3716230

VIS'24 Gathani, S., Crisan A., Setlur, V, Srinivasan A., *GROOT: A System for Editing and Configuring Automated Data Insights*. IEEE Visualization Conference (Short Paper)
📄 10.1109/VIS55277.2024.00015

TVCG 2024 Srinivasan A., Purich J., Correll M., Battle L., Setlur V., Crisan A.†, *From Dashboard Zoo to Census: A Case Study with Tableau Public*. IEEE Transactions on Visualization and Computer Graphics
📄 10.1109/TVCG.2024.3490259




TVCG 2023 Crisan A., Shang M., Brochu ER., *Eliciting Model Steering Interactions from Users via Data and Visual Design Probes*. IEEE Transactions on Visualization and Computer Graphics
📄 10.1109/TVCG.2023.3322898

CHI 2023
🏆 Rogers J., Crisan A. *Tracing and Visualizing Human-ML/AI Collaborative Processes through Artifacts of Data Work*. Proc. of CHI'23
📄 10.1145/3544548.358081
Best Paper Honorable Mention - CHI'23



CG&A 2023
🏆 Tory M., Bartram L., Fiore-Gartland B., Crisan, A., *Finding Their Data Voice: Practices and Challenges of Dashboard Users*. IEEE Computer Graphics and Applications
📄 10.1109/MCG.2021.3136545 🎥 GC&A Preview 📺 Tableau Engineering Blog
Best Paper Runner Up

AJPH 2022 Crisan A. *The Importance of Data Visualization in Combating a Pandemic*. The American Journal of Public Health
📄 10.2105/AJPH.2022.306857







FAccT 2022 Crisan A.§, Drouhard M.§, Vig J, Ranjani, N., *Interactive Model Cards: Human Centered Approach to Model Documentation*. Proc. FAccT'22
📄 10.1145/3531146.3533108 🎥 FAccT'22 Video ⚡ Streamlit Application

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|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TVCG 2021  | Crisan A , Fisher, S, Gardy, JL, Munzner T., <i>GEViTRec: Data reconnaissance through recommendation using a domain-specific visualization prevalence design space</i> . IEEE Transaction on Visualization and Computer Graphics  10.1109/TVCG.2021.3107749  VIS'22 Video  Tableau Engineering Blog Winner - ABPHM'19 Software Prize |
| CHI 2021  | Crisan A , Fiore-Gartland, B., <i>Fits and Starts: Enterprise use of AutoML and the role of humans in the loop</i> . Proc. of CHI'21  10.1145/3411764.3445775  CHI'21 Video  Tableau Engineering Blog Best Paper Honorable Mention - CHI'21 |
| CHI 2021 | Crisan A , Correll M., <i>User ex Machina: Simulation as a design probe in human in the loop text analytics</i> . Proc. of CHI'21  10.1145/3411764.3445425  CHI'21 Video  Tableau Engineering Blog |
| TVCG 2021  | Crisan A. , Fiore-Gartland, B., Tory, M. <i>Passing the data baton: A retrospective analysis on Data Science work and workers</i> . IEEE Transactions on Visualization and Computer Graphics  10.1109/TVCG.2020.3030340  VDS'21 Video  Tableau Main Blog Best Paper at the Visualization in Data Science Symposium |
| CHI 2020 | McNutt, A. Crisan A , Correll, M. <i>Divining insights: Visual analytics through cartomancy</i> Proc. ACM CHI'20 – alt.CHI  10.1145/3334480.3381814 |
| VIS 2019 | Crisan A. , Munzner T. <i>Uncovering data landscapes through data reconnaissance and task wrangling</i> IEEE Visualization Conference (Short Paper)  10.1109/VISUAL.2019.8933542 |
| Bioinf. 2018 | Crisan A. , Gardy JL., Munzner T. <i>A systematic method for surveying data visualizations and its resulting Genomic Epidemiology Visualization Typology: GEViT</i> Oxford Bioinformatics  10.1093/bioinformatics/bty832 |
| Bioinf. 2018 | Crisan A. , Munzner T., Gardy JL., <i>Adjutant: an R-based tool to support topic discovery for systematic and literature reviews</i> Oxford Bioinformatics  10.1093/bioinformatics/bty722  R Package |
| PeerJ 2018 | Crisan A. , McKee G., Munzner T., Gardy JL. <i>Evidence-based design and evaluation of a whole genome sequencing clinical report for the reference microbiology laboratory</i> . PeerJ  10.7717/peerj.4218 |
| IDMM 2016 | Miller RR., Langille MG., Montoya V., Crisan A. , Stefanovic A., Martin I., Hoang L., Patrick DM., Romney M., Tyrrell G., Jones SJ., Brinkman FS., Tang P., McKee G., Munzner T., Gardy JL. <i>Genomic analysis of a serotype 5 streptococcus pneumoniae outbreak in British Columbia, Canada, 2005 - 2009</i> . Canadian Journal of Infectious Diseases and Medical Microbiology  10.1155/2016/5381871 |
| MGen 2016 | Hatherell H., Didelot X., Pollock SL., Tang P., Crisan A. , Johnston JC., Colijn C., Gardy JL. <i>Declaring a tuberculosis outbreak over with genomic epidemiology</i> . Microbial Genomics  10.1099/mgen.0.000060 |
| IJTLD 2015 | Crisan A. , Wong HY., Johnston JC., Tang P., Colijn C., Otterstatter M., Hiscoe L., Parker R., Pollock SL., Gardy JL. <i>Spatio-temporal analysis of tuberculous infection risk among clients of a homeless shelter during an outbreak</i> . International Journal of Tuberculosis and Lung Disease  10.5588/ijtld.14.0957 |


- Eur Urol. 2015 Cooperberg MR., Davicioni E., **Crisan A.**, Jenkins RB., Ghadessi M., Karnes RJ. *Combined value of validated clinical and genomic risk stratification tools for predicting prostate cancer mortality in a high-risk prostatectomy cohort.* European Urology [10.1016/j.eururo.2014.05.039](#)
- BJUI 2014 **Crisan A.**§, Alshalalfa M.§, Vergara IA., Ghadessi M., Buerki C., Erho N., Yousefi K., Sierocinski T., Haddad Z., Black PC., Karnes RJ., Jenkins RB., Davicioni E. *Clinical and genomic analysis of metastatic prostate cancer progression with a background of postoperative biochemical recurrence.* British Journal of Urology International [10.1111/bju.13013](#)
- PCPD 2016 Ross AE., Feng FY., Ghadessi M., Erho N., **Crisan A.**, Buerki C., Sundi D., Mitra AP., Vergara IA., Thompson DJ., Triche TJ., Davicioni E., Bergstralh EJ., Jenkins RB., Karnes RJ., Schaeffer EM. *A genomic classifier predicting metastatic disease progression in men with biochemical recurrence after prostatectomy.* Prostate Cancer and Prostatic Diseases [110.1038/pcan.2013.49](#)
- J Urol 2013 Karnes RJ., Bergstralh EJ., Davicioni E., Ghadessi M., Buerki C., Mitra AP., **Crisan A.**, Erho N., Vergara IA., Lam LL., Carlson R., Thompson DJ., Haddad Z., Zimmermann B., Sierocinski T., Triche TJ., Kollmeyer T., Ballman KV., Black PC., Klee GG., Jenkins RB. *Validation of a genomic classifier that predicts metastasis following radical prostatectomy in an at risk patient population.* Journal of Urology [10.1016/j.juro.2013.06.017](#)
- IJRO 2013 Feng FY., Ghadessi M., Davicioni E., **Crisan A.**, Erho N., Mitra AP., Triche TJ., Jenkins RB., Ross AE., Schaeffer EM. *Validation of a Genomic Classifier That Predicts Metastatic Disease Progression in Men With Biochemical Recurrence Post-Radical Prostatectomy.* International Journal of Radiation Oncology [10.1038/pcan.2013.49](#)
- PLOS 2013 **Crisan A.**§, Erho N.§, Vergara IA., Mitra AP., Ghadessi M., Buerki C., Bergstralh EJ., Kollmeyer T., Fink S., Haddad Z., Zimmermann B., Sierocinski T., Ballman KV., Triche TJ., Black PC., Karnes RJ., Klee G., Davicioni E., Jenkins RB., *Discovery and validation of a prostate cancer genomic classifier that predicts early metastasis following radical prostatectomy.* PLOS ONE [10.1371/journal.pone.0066855](#)
- Nature 2012 Shah SP., Roth A., Goya R., Oloumi A., Ha G., Zhao Y., Turashvili G., Ding J., ..., **Crisan A.**, ... Marra MA., Aparicio S., *The clonal and mutational evolution spectrum of primary triple-negative breast cancers* Nature [10.1038/nature10933](#)
I engineered a distributed analytic pipeline for this research
- Bioinf. 2012 Roth A., Ding J., Morin R., **Crisan A.**, Ha G., Giuliany R., Bashashati A., Hirst M., Turashvili G., Oloumi A., Marra MA., Aparicio S., Shah SP. *JointSNVMix: a probabilistic model for accurate detection of somatic mutations in normal/tumour paired next-generation sequencing data.* Oxford Bioinformatics [10.1093/bioinformatics/bts053](#)
- Frontiers 2012 Vergara I., Erho N., Triche T., Ghadessi M., **Crisan A.**, Sierocinski T., Black PC., Buerki C., Davicioni E.. *Genomic dark matter in prostate cancer: exploring the clinical utility of ncRNA as biomarkers.* Frontiers in Genetics [10.3389/fgene.2012.00023](#)

- Bioinf. 2012 **Crisan A.**, Goya R., Ha G., Ding J., Prentice LM., Oloumi A., Senz J., Zeng T., Tse K., Delaney A., Marra MA., Huntsman DG., Hirst M., Aparicio S., Shah SP. *Mutation discovery in regions of segmental cancer genome amplifications with CoNAn-SNV: a mixture model for next generation sequencing of tumors*. PLOS ONE
 10.1371/journal.pone.0041551
- Bioinf. 2010 Goya R., Sun MG., Morin RD., Leung G., Ha G., Wiegand KC., Senz J., **Crisan A.**, Marra MA., Hirst M., Huntsman D., Murphy KP., Aparicio S., Shah SP. *SNVMix: predicting single nucleotide variants from next-generation sequencing of tumors*. Oxford Bioinformatics
 bioinformatics/btq040

Workshop Publications

- IEEE VIS 2024 **Crisan A.** *We Don't Know how to Assess LLM Contributions in VIS/HCI*. BELIV'24
 10.1109/BELIV64461.2024.00018
- IEEE VIS 2024 **Crisan A.**, Butters N., Zoe., *Exploring Subjective Notions of Explainability through Counterfactual Visualization of Sentiment Analysis*. BELIV'24
 10.1109/BELIV64461.2024.00007
- ACM CHI 2024 **Crisan A.**, Hoque, EP., *Towards a Holistic Evaluation of LLM Generated Code for Exploratory Visual Analysis*. HEAL'24
- NeurIPs 2022 **Crisan, A.**, Kotthoff, L., Streit, M., Xu, K. *Towards a Human-Centered Approach for Automation in Data Science*. HCAI @ NeurIPs'22
 <https://tinyurl.com/3yv8y7vs>
- KDD 2021 **Crisan, A.**, Setlur V. *Natto: Rapid and Visual Iteration of Analytic Data Models with Intelligent Assistance*. VDS @ KDD'21
 <https://tinyurl.com/mr25p23c>
- IEEE VIS 2018 **Crisan A.**, Elliott M. *How to evaluate an evaluation study? Comparing and contrasting practices in vis with those of other disciplines*. BELIV'18
 10.1109/BELIV.2018.8634420
- IEEE VIS 2016 **Crisan A.**, Gardy JL., Munzner T., *On regulatory and organizational constraints in visualization design and evaluation*. BELIV'16
 10.1145/2993901.2993911

Reports

- 2024 **Crisan A.**, Kotthoff L., Streit M., Xu, K. *Human-Centered Approaches for Provenance in Automated Data Science*. Dagstuhl Seminar 23372
 10.4230/DagRep.13.9.116

Selected Presentations

Over the past six years I gave 7 invited talks, one of them as a keynote

- Shonan 2024 Translating Visualization Research into Practice
Location: Shonan Village, Japan
Invited Talk

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| SCI 2024 | Scaling Data Driven Decision-Making through Human-AI interaction <i>Location:</i> Salt Lake City, USA <i>Invited Talk</i> |
| HILDA 2023 | Scaling Data Driven Decision-Making through Human-AI interaction <i>Location:</i> Seattle, USA <i>Invited Talk & Keynote</i> |
| FAccT 2022 | Interactive Model Cards : a Human-Centered Approach to Model Documentation <i>Location:</i> Seoul, Korea |
| CHIL 2022 | Are Log Scales Endemic Yet? Strategies for Visualizing Biomedical and Public Health Data <i>Location:</i> Virtual (due to COVID-19) <i>Invited Talk</i> |
| VIZBI 2022 | Visualization in Public Health <i>Location:</i> Virtual (due to COVID-19) <i>Invited Talk</i> |
| CHI 2021 | Fits and Starts: Enterprise Use of AutoML and the Role of Humans in the Loop <i>Vis ex Machina:</i> Simulation as a Design Probe in Human in the Loop Text Analytics <i>Location:</i> Virtual (due to COVID-19) |
| ABPHM 2019  | Automated Visualization Recommendations for Genomic Epidemiology <i>Location:</i> Hinxton, UK <i>Winner - ABPHM'19 Software Prize</i> |
| Dagstuhl 2019 | Dagstuhl Seminar 18161 – BioVis Crossroads <i>Location:</i> Schloss Dagstuhl, Germany Organized by: Jan Aerts (KU Leuven, BEL); Nils Gehlenborg (Harvard University, USA); Elisabeta Marai (University of Illinois, USA); and Kay Nieselt (Uni. Tübingen, DEU) <i>Invited Talk</i> |
| DBMI 2018 | Creating Explorable Visualization Design Spaces: An Example from Infectious Disease Genomic Epidemiology <i>Location:</i> Boston, USA <i>Invited Talk</i> |

Service

Program Committees

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|----------------|--------------------------------------------------------------------|
| 2021 - present | IEEE VIS - Program Committee |
| 2022 - present | ACM CHI - Associate Chair, Visualization Subcommittee |
| 2023 - Present | ACM FAccT - Program Committee |
| 2024 | ACM CSCW - Program Committee |
| 2023 | NeurIPs AI4Science Workshop, Area Chair |
| 2023 | ACM CHI - Paper Awards Committee |
| 2022 | ISVC - Visualization Area Chair |
| 2021 - 2023 | VADA (Visual and Automated Disease Analytics) - Steering Committee |
| 2020 - 2023 | Frontiers in Bioinformatics- Review Editor |
| 2017 - 2019 | Bioinformatics Open Source Conference - Program Committee |

Organizing Committees

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|-------------|-----------------------------------------|
| 2025 | IEEE VIS - Area Curation Committee |
| 2024 - 2025 | IEEE VIS - Workshops Chair |
| 2023 - 2024 | IEEE VIS - Application Spotlights Chair |

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|-------------|-----------------------------------------------------------|
| 2021 - 2024 | Visualization in Data Science Symposium - Papers co-chair |
| 2021 - 2022 | IEEE VIS - Vis in Practice co-chair |
| 2018 - 2020 | Biovis@IEEEVIS Chair |
| 2016 - 2018 | Biovis Website chair |

Reviewing

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|------------|---------------------------------------|
| 2020- 2023 | Frontiers in Bioinformatics |
| 2019- | IEEE VIS |
| 2019 | ACM CHI |
| 2018- | IEEE TVCG |
| 2017- | Bioinformatics Open Source Conference |

Leaves

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|------------------|----------------|
| Dec'22 - June'23 | Parental Leave |
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