Cindy Xiong Bearfield

Assistant Professor
College of Information and Computer Sciences
University of Massachusetts Amherst

Website: https://cyxiong.com
Email: cindy.xiong@cs.umass.edu

Area of Expertise

Information Visualization, Human-Computer Interaction, Decision Making, Perception and Cognition

Education

2021	Northwestern University	Ph.D. in Psychology
2021	Northwestern University	M.S. in Statistics
2018	Northwestern University	M.S. in Psychology
2016	UCLA	B.S. in Applied Mathematics
		B.A. in Psychology
		(minor: Environmental Engineering)

Research Positions

2024 –   Assistant Professor
              Georgia Institute of Technology
              College of Computing, School of Interactive Computing

2021 – 2023   Assistant Professor
              University of Massachusetts Amherst
              College of Information and Computer Sciences

2016 – 2021   Graduate Student, Northwestern Visual Thinking Lab
              Advisor: **Steven Franconeri**

2019   User Experience Researcher
              Charting Visual Design Revolution, Graphics and Charting
              Image Processing, Signal Processing and Communications
              The MathWorks

2015 – 2016   Research Assistant, UCLA Computational Vision and Learning Lab
              Psychophysics, Computational Psychology Approach to Intuitive Physics
              Advisor: **Hongjing Lu**

2013 – 2016   Research Assistant, UCLA Civil and Environmental Engineering Jay Lab

Antibiotic Resistance in Airborne Bacteria
Advisor: **Jenny Jay**

2012 – 2016 Research Assistant, UCLA Human Perception Lab
Perceptual Learning applied to Chemistry, Algebra & Music
Advisor: **Phil Kellman**

International Visiting and Development

2018 Visiting Scholar, Utrecht University, Utrecht, the Netherlands
Ambiguity in Graph Pattern Interpretation and Perspective Taking
Host: **Lisanne van Weelden**

2018 Participant, Summer School on Computational and Mathematical Modeling of Cognition, Couches, France
Perceptual Anchoring of Inferences from Dual-axis Graphs
Advisor: **Casimir Ludwig**

2015 Research Assistant, Peking University, Beijing, China
Social Status and Its Relationship to Neural Responses to Fairness
Advisor: **Xiaolin Zhou**

Selected Fellowships and Awards

2023 IEEE Computer Graphics and Application Best Paper Runner-Up
(Top three papers from IEEE CG&A published in 2022)

NSF CISE Medium *(IIS-HCC, $1,198,084, Xiong's Share: $514,987)*
Advancing Visualization Decision Support through Mitigating Confirmation Bias

NSF CAREER *(IIS-HCC, $631,846)*
Designing Visualizations to Support Critical Thinking and Calibrated Trust in Data

Adobe Research Gift *($10,000)*

Dolby Research Gift *($40,000)*

UMass Amherst Public Interest Technology Initiative Fellowship

2022 IEEE VGTC Visualization Dissertation Award Honorable Mention

Adobe Research Gift *($10,000)*

MathWorks Research Gift *($12,500)*

IEEE VIS Honorable Mention for Best Poster Award
(One of three total awards given to poster submissions)

ACM CHI Honorable Mention for Best Paper Award
(Top 5% of submitted papers)

UMass Amherst Institute of Diversity Sciences Seed Grant *($15,000)*

2021   Adobe Research Gift *($10,000)*

        UMass Amherst College of Social & Behavioral Sciences Research Support Grant
        ($14,000)

2020   IEEE VIS Honorable Mention for Best Paper Award
        (One of ten total awards given to full paper submissions)

        Northwestern University Career Development Award

2019   Psychonomics Society Graduate Travel Award
        (One of twenty awards given to graduate student presenters)

        IEEE Doctoral Colloquium Fellowship

        Northwestern Cognitive Science Travel Award

        Northwestern TGS Conference Travel Award

2018   Northwestern Segal Design Research Fellowship

2018   Northwestern Psychology Summer Workshop Travel Award

2017   IEEE VIS Honorable Mention for Best Poster Award
        (One of three total awards given to poster submissions)

        Northwestern Cognitive Science Advanced Fellowship

2016   Northwestern Cognitive Science Fellowship

Refereed Conference Publications

2023   Elhamdadi, H., Stefkovics, A., Beyer, J., Moerth, E., Pfister, H., **Xiong Bearfield, C.,** Nobre,
        C. (2023)
        **Vistrust: a Multidimensional Framework and Empirical Study of Trust in Data
        Visualizations.**
        IEEE Transactions on Visualization and Computer Graphics.
        Acceptance rate: 25.8%

        Holder, E., **Xiong Bearfield,** C. (2023).
        **Polarizing Political Polls: How Visualization Design Choices Can Shape Public Opinion
        and Increase Political Polarization.**
        IEEE Transactions on Visualization and Computer Graphics.
        Acceptance rate: 25.8%

        Gaba, A., Kaufman, Z., Cheung, J., Shvakel, M., Hall, K., Brun, Y., **Xiong Bearfield,** C. (2023).

My Model is Unfair, Do People Even Care? Visual Design Affects Trust and Perceived Bias in Machine Learning.
IEEE Transactions on Visualization and Computer Graphics.
Acceptance rate: 25.8%

2022   Gaba, A., Setlur, V., Srinivasan, A., Hoffswell, J., **Xiong, C.** (2022).
Comparison Conundrum and the Chamber of Visualizations: An Exploration of How Language Influences Visual Design.
IEEE Transactions on Visualization and Computer Graphics, IEEE VIS 2022.
DOI: 10.1109/TVCG.2022.3209456
Acceptance rate: 26.5%

Xiong, C., Stokes, C., Kim, Y., & Franconeri, S. (2022).
Seeing What You Believe or Believing What You See? Belief Biases Correlation Estimation.
IEEE Transactions on Visualization and Computer Graphics, IEEE VIS 2022.
DOI: 10.1109/TVCG.2022.3209405
Acceptance rate: 26.5%

Holder, E., **& Xiong, C.** (2022).
Dispersion vs Disparity: Hiding Uncertainty Can Encourage Stereotyping When Visualizing Social Outcomes.
IEEE Transactions on Visualization and Computer Graphics, IEEE VIS 2022.
DOI: 10.1109/TVCG.2022.3209377
Acceptance rate: 26.5%

Mantri, P., Subramonyam, H., Michal, A., **Xiong, C.** (2022).
How Do Viewers Synthesize Conflicting Information from Data Visualizations?
IEEE Transactions on Visualization and Computer Graphics, IEEE VIS 2022.
DOI: 10.1109/TVCG.2022.3209467
Acceptance rate: 26.5%

🏆 **Xiong, C.**, Sarvghad, A., Goldstein, D., Hofman, J., & Demiralp, C. (2022).
Investigating Perceptual Biases in Icon Arrays.
Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems.
DOI:10.1145/3491102.3501874.
Accepted first round, acceptance rate 12.5%
[*Best Paper Honourable Mention*]

2021   **Xiong., C.**, Setlur, V., Bach, B., Lin, K., Koh, E., & Franconeri, S. (2021).
Visual Arrangements of Bar Charts Influence Comparisons in Viewer Takeaways.
IEEE Transactions on Visualization and Computer Graphics, IEEE VIS 2021.
DOI: 10.1109/TVCG.2021.3114823.
Acceptance rate: 25.5%

2020   Ceja, C., McColeman, C., **Xiong, C.**, Franconeri, S. (2020).
Truth or Square: Aspect Ratio Biases Recall of Position Encodings.
IEEE Transactions on Visualization and Computer Graphics, InfoVis 2020.
DOI: 10.1109/TVCG.2020.3030422
Acceptance rate: 25.6%

🏆 Elliott M., Nothelfer, C., **Xiong, C.**, Albers Szafir, D. (2020).
A Design Space of Vision Science Methods for Visualization Research.
IEEE Transactions on Visualization and Computer Graphics, InfoVis 2020.
DOI: 10.1109/TVCG.2020.3029413
Acceptance rate: 25.6%
[*Best Paper Honourable Mention*]

Xiong, C., van Weelden, L., Waytz, A., & Franconeri, S. (2020).
Same Graph, Different Conclusions: Perceptual Salience Drives Data Interpretation and Decision Making.
Proceedings to Society for Consumer Psychology, Hungtinton Beach, CA, 2020.
Competitive Paper Submission, acceptance rate: 16%

2019   **Xiong, C.**, Shapiro, J., Hullman, J., & Franconeri, S. (2019).
Illusion of Causality in Visualized Data.
IEEE Transactions on Visualization and Computer Graphics, InfoVis, 2019.
DOI: 10.1109/TVCG.2019.2934399
Acceptance rate: 25.8%

Xiong, C., Ceja, C., Ludwig, C., & Franconeri, S. (2019). Biased Average Position
Estimates in Line and Bar Graphs: Underestimation, Overestimation, and Perceptual Pull.
IEEE Transactions on Visualization and Computer Graphics, InfoVis, 2019.
DOI: 10.1109/TVCG.2019.2934400
Acceptance rate: 25.8%

2016   Bufford, C., Thai, K. P., Ho, J., **Xiong, C.**, Hines, C., & Kellman, P. (2016).
Perceptual learning of abstract musical patterns: Recognizing composer style.
Proceedings of the 14h Annual Conference of the International Conference for Music Perception and Cognition (pp. 8-12).

Refereed Journal Publications

2023   **Xiong, C.**, Stokes, C., Lovett, A., Franconeri, S. (2023)
What Does the Chart Say? Grouping Cues Guide Viewer Comparisons and Conclusions in Bar Charts
IEEE Transactions on Visualization and Computer Graphics.
DOI: 10.1109/TVCG.2022.3232959

2022   **Xiong, C.**, Lee-Robbins, E., Zhang, I., Gaba, A., & Franconeri, S. (2022).
Reasoning Affordances with Tables and Bar Charts.
IEEE Transactions on Visualization and Computer Graphics.
DOI: 10.1109/TVCG.2022.3232959

Burns, A., On, T., Lee, C., **Xiong, C.**, Peck, E., Mahyar, N. (2022).
From Invisible to Visible: Impacts of Metadata in Communicative Data Visualization.
IEEE Transactions on Visualization and Computer Graphics.
DOI: 10.1109/TVCG.2022.3231716

🏆 Wall, E., **Xiong, C.**, Kim, Y. (2022).
VisHikers' Guide to Evaluation: Competing Considerations in Study Design.
IEEE Computer Graphics and Applications, 2022.
DOI: 10.1109/MCG.2022.3152676
Invited article.
[*IEEE CG&A Best Paper Runner-Up*]

Yang, L. **Xiong, C.**, Wong, K., Wu, A., Qu, H. (2022).
Explaining with Examples: Lessons Learned from Crowdsourced Introductory Description of Information Visualizations.
IEEE Transactions on Visualization and Computer Graphics.
DOI: 10.1109/TVCG.2021.3128157

2021 Burns, A., **Xiong, C.**, Franconeri, Cairo, A., S., Mahyar, N. (2021).
Designing with Pictographs: Envision Topics without Sacrificing Depth of Understanding.
IEEE Transactions on Visualization and Computer Graphics, 2021.
DOI: 10.1109/TVCG.2021.3092680
Acceptance rate: 24.6%

Ajani, K., Lee, E., **Xiong, C.**, Knaflic, C. N., Kemper, W., Franconeri, S. (2021).
Declutter and Focus: Empirically Evaluating Design Guidelines for Effective Data Storytelling.
IEEE Transactions on Visualization and Computer Graphics.
DOI: 10.1109/TVCG.2021.3068337.

2019 **Xiong, C.**, van Weelden, L., & Franconeri, S. (2019).
The Curse of Knowledge in Data Visualizations.
IEEE Transactions on Visualization and Computer Graphics.
DOI: 10.1109/TVCG.2019.2917689

Lightly-Reviewed Workshop and Conference Papers

2022 Elhamdadi, H., Gaba, A., Kim, Yea-Seul., **Xiong, C.** (2022).
How Do We Measure Trust in Visual Data Communication?
IEEE Vis BELIV Workshop, 2022.

Elhamdadi, H., Padilla, L., **Xiong, C.** (2022).
Using Processing Fluency as a Metric of Trust in Scatterplot visualizations
IEEE Vis TREX Workshop, 2022.

2021 Burns, A., On, T., Lee, C., Shapiro, R., **Xiong, C.**, & Mahyar, N. (2021).
Making the Invisible Visible: Risks and Benefits of Disclosing Metadata in Visualization.
2021 IEEE Workshop on Visualization for Social Good (VIS4Good) (pp. 11-15).

Ceja, C., & **Xiong, C**. (2021).
Show or Tell? Visual and Verbal Representations Bias Position Recall.

IEEE Vis VISxVISION Workshop, 2021.

2020   **Xiong, C.**, Stokes, C., Kim, Y., Franconeri, S.
See What You Want: Belief Biases Correlation Estimations.
OPAM 2020.

     Xiong, C., van Weelden, L., Waytz, A., & Franconeri, S.
Same Graph, Different Conclusions: Perceptual Salience Drives Data Interpretation and Decision Making.
Society for Consumer Psychology, 2020.

     Burns, A., **Xiong, C.**, Franconeri, Cairo, A., S., Mahyar, N. (2020).
How to Evaluate Data Visualizations across Different Levels of Understanding.
IEEE Vis BELIV Workshop, 2020.

2019   **Xiong, C.** (2019).
Visualization Design to Afford Critical Thinking about Data.
IEEE Transactions on Visualization and Computer Graphics, Doctoral Colloquium 2019.

     Xiong, C., Padilla, L., Grayson, K., Franconeri, S. (2019).
Examining the Components of Trust in Map-Based Visualizations.
EuroVis Workshop on Trustworthy Visualization (TrustVis) 2019, Portal, Portugal.

2017   **Xiong, C.**, van Weelden, L., & Franconeri, S.
The Power of Top-Down Salience in Data Visualizations.
OPAM, 2017.

     Xiong, C., van Weelden, L., & Franconeri, S., (2017).
The Curse of Knowledge in Visual Data Communication.
IEEE Transactions on Visualization and Computer Graphics, DECISIVe Workshop 2017.

2016   **Xiong, C.**, Kubricht, J., Lu, H.
A Computational Investigation into Intuitive Physics for Colliding Objects.
The 16th Annual Stanford Undergraduate Psychology Conference, Palo Alto, CA, 2016.

Organized Conference Workshops, Panels and Symposiums

2023   Nobre, C., **Xiong Bearfield, C.**, Levine, J., Wall, E., Moritz, D., Dimara, E.
Establishing and Thriving in an Academic Career.
IEEE VIS, 2023

2022   Nourani, M., Ragan, E., Karduni, A., **Xiong, C.**, Davis, B.
TREX: Workshop on TRust and EXpertise in Visualization.
IEEE VIS, 2022.

2021   **Xiong, C.**, Nothelfer, C., Elliott, M., Szafir, D.
VisXVision: Workshop on Novel Directions in Vision Science and Visualization Research.
IEEE VIS, 2021.

2019   Elliott M., Bylinskii, Z., Nothelfer, C., **Xiong, C.**, Albers Szafir, D.
VisXVision: Workshop on Novel Directions in Vision Science and Visualization Research.
IEEE VIS, 2019

Xiong, C., Bylinskii, Z., Elliott M., Nothelfer, C., Albers Szafir, D.
VISxVISION Workshop: Novel Vision Science Research Directions in Visualization.
Vision Sciences Society Annual Meeting 2019 May, St. Pete Beach, Florida.

2018   Elliott M., Bylinskii, Z., Nothelfer, C., **Xiong, C.**, Albers Szafir, D.
Visualization Meets Vision Science.
Meetup at IEEE InfoVis 2018, Berlin, Germany.

Nothelfer, C., Elliott M., Bylinskii, Z., **Xiong, C.**, Albers Szafir, D.
Vision and Visualization: Inspiring novel research directions in vision science.
Symposium at Vision Sciences Society Annual Meeting 2018 May, St. Pete Beach, Florida

2017   Nothelfer, C., Bylinskii, Z., Elliott, M., **Xiong, C.**, & Szafir, D.A.
Vision Science Meets Visualization.
Panel at IEEE InfoVis 2017, Phoenix, Arizona.

Elliott, M., Nothelfer, C., & **Xiong, C.**
VSSxVIS: Information Visualization Research.
Panel at Vision Sciences Society Annual Meeting 2017 May, St. Pete Beach, Florida.

Refereed Poster Presentations

2023   Lin, K., Rapp, D., & **Xiong Bearfield, C**.
Visual Complexity Impacts Reader Confidence and Comprehension in Data Visualizations.
Psychonomics 2023.

2022   Stokes, C., **Xiong, C.,** Hearst, M.
Driving Reader Interpretations with Text Annotations in Data Visualizations
Society for Judgment and Decision Making Annual Conference 2022.

🏆 Elhamdadi, H., Padilla, L., **Xiong, C.**
Processing Fluency improves Trust in Scatterplot Visualizations.
IEEE VIS, 2022.
[*Best Poster Honourable Mention]
(Top 3 poster submissions)

Savalia, T., Ceja, C., Cowell, R., **Xiong, C.**
Data Shape and Response Modalities Can Bias Estimations of Average Data Location in Visualizations.
VSS 2022.

2022   Lin, K., Rapp, D., Xiong, C.
Attempts to Augment Refutation Text Benefits with Visualizations.
Northwestern University Undergraduate Research Expo.

2021	Ceja, C., & **Xiong, C**.
	Show or Tell? Visual and Verbal Representations Bias Position Recall.
	IEEE VIS, 2021.

Xiong, C., Stokes, C., Franconeri, S.
Visual Salience and Grouping Cues Guide Relation Perception in Visual Data Displays.
VSS 2021.

2019	**Xiong, C.**, Ceja, C., Ludwig., C., & Franconeri, S. L.
	Position Estimation Illusions in Visualized Data: Underestimation, Overestimation and Perceptual Pull.
	OPAM, 2019, Montreal, Canada.

Xiong, C., Lee, E., & Franconeri, S.
Confirmation Bias in Graphical Displays.
Society for Judgment and Decision Making, 2019, Montreal, Canada.

🏆 **Xiong, C.**, van Weelden, L., & Franconeri, S.
Same Data, Diverging Conclusions: Perceptual Salience Drives Data Interpretation.
Psychonomics 2019.
[*Graduate Travel Award*] awarded to 20 students.

Ceja, C., McColeman, C., **Xiong, C.**, & Franconeri, S.
Position Estimates in Bar Graphs: Error and Bias.
IEEE VIS, 2019.

Xiong, C., Ceja, C., Ludwig., C., & Franconeri, S. L.
Attraction and Response Probe Similarity Effects in a Multiple Ensemble Judgment Task.
VSS 2019.

Lee, J., **Xiong, C.**, Ceja, C., & Franconeri, S. L.
Perceptual Bias in Object Position Estimates in Data Visualization.
28th UCLA Psychology Undergraduate Research Conference, Los Angeles CA, USA.

Lin, K.., Salovich, N. A., **Xiong, C.**, Franconeri, S. L., & Rapp, D. N.
Controversial Topics Increase Skepticism of Data Visualizations.
Chicago Area Undergraduate Research Symposium, Chicago, IL, USA.

2018	**Xiong, C.**, Ludwig, C., Ceja, C, & Franconeri, S.
	Perceptual Anchoring of Inferences from Dual-axis Graphs.
	Fifth European Summer School on Computational and Mathematical Modeling of Cognition 2018 July, Couches, France.

Xiong, C., Ceja, C., Lee, J., Franconeri, S.
Perceptual Anchoring of Graph Element Positions in Dual-Axis Graphs.
Poster presented at Fifth European Summer School on Computational and Mathematical Modeling of Cognition 2018 July, Couches, France.

2017   **Xiong, C.**, van Weelden, L., & Franconeri, S.
Graphs as Ambiguous Figures.
VSS 2018.

🏆 **Xiong, C.**, van Weelden, L., & Franconeri, S.,
The curse of knowledge in visual data communication.
IEEE VIS, 2017.
[*Best Poster Honourable Mention]
(Top 3 poster submissions)

2016   Hines, C.A., Ho, J., **Xiong, C.**, Bufford, C. A., Thai, K. P., & Kellman, P. J.
Perceptual learning intervention improved abstract musical pattern recognition.
25th UCLA Psychology Undergraduate Research Conference, Los Angeles CA, USA.

2015   Ho, J., **Xiong, C.**, Bufford, C. A., Thai, K. P., & Kellman, P. J.
Perceptual Learning of Musical Abstract Patterns.
Berkeley Interdisciplinary Research Conference for Undergraduates, Berkeley, CA, USA.

Teaching Experience

Lecturer

2023 Spring	Intro to User Experience Research	UMass Amherst
2022 Fall	Making Sense of Visual Data: Human Perception, Attention, and Information Visualization	UMass Amherst
2022 Spring	Intro to User Experience Research	UMass Amherst
2020 Fall	Decision Making	Northwestern University

Teaching Assistant

2019 Fall	Developmental Psychology	Northwestern University
2017 Fall	Developmental Psychology	Northwestern University
2017 Spring	Decision Making	Northwestern University
2017 Winter	Brain Damage and the Mind	Northwestern University
2015 Winter	Introduction to Psychology	UCLA

Invited Talks

2023	*May*	UCLA	Los Angeles, CA
	Mar	New York University	New York City, NY
	Mar	Columbia University	New York City, NY
	Feb	Northeastern University	Boston, MA
	Jan	Georgia Institute of Technology	Atlanta, GA
	Jan	Emory University	Atlanta, GA
2022	*Sept*	University of Illinois Urbana-Champaign	Virtual
	June	ETVIS Workshop on eye tracking and visualization (keynote)	Virtual
	May	IT World Canada Digital Transformation Conference	Virtual
	Apr	University of Massachusetts, Amherst HCI Seminar	Amherst, MA
2021	*Nov*	Brown University	Providence, RI
	Nov	People Analytic RoundTable Milwaukee HCA	Virtual
	Oct	People Analytics Conference by the Conference Board	Virtual
	Oct	Department of Psychology, UMass Amherst	Amherst, MA

	Aug	*Southern California People Analytics Meetup*	Virtual
	Jun	Conference on Computer Vision and Pattern Recognition CQA Workshop	Virtual
	Feb	Adobe Workshop at Northwestern University	Virtual
	Feb	Yale University Behavioral Finance Reading Group	Virtual
2020	*Jun*	National Bureau of Economic Research	Virtual
	Apr	University of Massachusetts, Amherst	Amherst, MA
	Feb	Microsoft Research	New York City, NY
	Jan	University of Michigan, Ann Arbor	Ann Arbor, MI
2019	*Nov*	University of Massachusetts, Amherst	Amherst, MA
	Nov	University of Massachusetts, Boston	Boston, MA
	Nov	Wellesley College	Wellesley, MA
	Nov	Northeastern University	Boston, MA
	Nov	University Washington	Seattle, WA
	Oct	Tableau	Seattle, WA
	Oct	University of British Columbia	Vancouver, Canada
	Oct	Columbia University	New York City, NY
	Oct	New York University	New York City, NY
	Sept	Brown University	Providence, RI
	Aug	Tufts University	Medford, MA
	July	The MathWorks	Natick, MA
	June	Northwestern University Design Cluster	Evanston, IL
	Mar	Northwestern University Kellogg School of Management	Evanston, IL
2018	*Nov*	Northwestern University R User Group	Evanston, IL
	Feb	Northwestern University HCI Group	Evanston, IL

Professional Services

Academic Service

2023 –	Consulting Editor Cognitive Research: Principles & Implications (Impact Factor: 4.1)
2022 –	NIST (National Institute of Standards and Technology) Organization of Scientific Area Committees for Forensic Science Human Factors Task Group Affiliate
2022 –	IEEE VGTC (Visualization and Graphics Technical Community) Executive Committee, Secretary
2017 – 2023	Co-Founder and Organizer VISxVISION initiative (visxvision.com)
2023	Meet-Up Chair IEEE VIS Organizing Committee Session Chair, Full Paper Perception. IEEE VIS in Melbourne, Australia

Steering Committee Member,
VISxVISION Workshop at IEEE VIS in Melbourne, Australia

2022 Co-Chair
IEEE VIS Workshop on TRust and EXpertise in Visual Analytics (TREX)

Session Chair, Short Paper
Personal Visualization, Theory, Evaluation, and eXtended Reality
IEEE VIS

2021 Session Chair, Full Paper
Studies and Evaluation Methodology.
IEEE VIS

Co-Chair
IEEE VIS Workshop on Vis X Vision at IEEE

2020 Session Chair, Short Paper
Theory, Cognition, & Sensemaking.
IEEE VIS

2019 Publication Volunteer
IEEE VIS 2019 Workshop on Vis X Vision at IEEE InfoVis

Co-Chair
IEEE VIS 2019 Workshop on Vis X Vision at IEEE InfoVis

Advisory Group
Journal of Vision, *Special Issue on Visualization*

Organizer
VSS 2019 Workshop on Vis X Vision at Vision Science Society, 2019

2018 Organizer
VSS 2018 Symposium *Inspiring Novel Research Directions in Vision Science*

Organizer
IEEE InfoVis 2018 *Visualization Meets Vision Science Meetup*

2017 Organizer
IEEE InfoVis 2017 *Visualization Meets Vision Science Panel*

Organizer
VSS 2017 *Information Visualization Research Panel*

2016 Editor
UCLA *The Undergraduate Research Journal of Psychology*, Spring 2016 Issue

Program Committee
2023 IEEE VIS Full Paper
PacificVis Full Paper (Journal Track)

2022	IEEE VIS Full Paper
	IEEE VIS Short Paper
	EuroVis Short Paper
2021	EuroVis Short Paper
	IEEE VIS Short Paper
2020	ACM Creativity and Cognition
	IEEE VIS Short Paper

Ad-Hoc Reviewer
ACM CHI: Human Factors in Computing Systems
ACM Symposium on Eye Tracking Research & Applications
Attention, Perception & Psychophysics
Cognitive Neurodynamics
Cognitive Science Society
IEEE Computer Graphics and Applications
Current Directions in Psychological Science
IEEE Computer Graphics and Applications
IEEE Transactions on Visualization and Computer Graphics
Scientific Reports

University and Departmental Service

2022 – 2023	Informatics Search Committee College of Information and Computer Sciences, UMass Amherst
2022 – 2023	Executive and Budget Committee College of Information and Computer Sciences, UMass Amherst
2022 – 2023	UMass Amherst CICS New Building Working Group/Committee College of Information and Computer Sciences, UMass Amherst
2022	Chair Search Committee College of Information and Computer Sciences, UMass Amherst
2021	Ph.D. Admissions Committee College of Information and Computer Sciences, UMass Amherst
2018	Coordinator for Ph.D. Interviews Department of Psychology Northwestern University
2018 – 2019	Brownbag Colloquium Coordinator Department of Psychology Northwestern University

Outreach

2022	Panelist at Empow(H)erment College of Information and Computer Sciences, UMass Amherst
2021	Submission Judge for Hack(her)thon College of Information and Computer Sciences, UMass Amherst

| 2019 | Panelist |
Northwestern University Graduate Diversity and Inclusion Committee

| 2017 – 2019 | Mentor |
Northwestern Psychology Graduate Student Mentorship Program

| 2017 | Application Reviewer, Sneak Peek Program, |
Northwestern University

| 2016 – 2018 | Science Fundraiser Volunteer, |
Illinois Science Council

| 2018 | Coordinator, |
Northwestern Department of Psychology Prospective Visit

| 2015 – 2016 | Committee Member |
UCLA Common Book Committee

Grant Reviewing

Ad-hoc Reviewer, NSF Decision, Risk and Management Sciences
Panel Reviewer, NSF IIS-HCC

Graduate Students Mentored

2023 –	Songwen Hu
2023 –	Kylie Lin
2023 –	Hayong Song
2023 –	Yixuan Li
2023 –	Ouxun Jiang
2023 –	Will Wang
2022 –	Zafeiria Moumoulidou
2022 –	Zhanna Kaufman
2022 –	Tejas Savalia
2021 –	Aimen Gaba
2021 –	Hamza Elhamdadi
2022 – 2023	Misha Oraa Ali
2021 – 2022	Prateek Mantri
2021 – 2022	Maliha Islam
2021 – 2022	Alyxander Burns

Undergraduate Students Mentored

2023 –	Sydney Stratis
2023 –	Marie Shvakel
2022 –	Will Huichen Wang
2023	Matteo Mastandrea
2021 – 2023	Jason Cheung
2021 – 2022	Christiana Lee
2021 – 2022	Tiffany Lou

2020 – 2023	Kylie Lin
2021 – 2023	Guilherme Santos Rocha
2022 – 2023	Jocelyn Velazquez
2022 – 2023	Erin Melia
2022 – 2023	Lily Thai Edmonds
2022 – 2023	Bhoomika Raj Ethakota
2022	Nisarga Patil
2022	Gaby Nugent
2022	Lynn Li
2021 – 2022	Rinija Raja
2021 – 2022	Thai On
2020 – 2021	Sarah Stoiber
2020 – 2021	Rachel Shapiro
2020 – 2021	Meghna Jain
2019 – 2021	Madison Tyrcha
2019 – 2020	Gabriel Belkind-Gerson
2017 – 2021	Chase Stokes
2017 – 2020	Jun Lee
2017 – 2018	Emily Manheimer
2017 – 2018	Chase Bednarz
2016 – 2017	Sara Malik

M.S. / Ph.D. Thesis Commmittees

2023 –	Zafeiria Moumoulidou
2022 –	Melanie Bancilhon (Computer Science Ph.D.)
2022 – 2023	Jimin Park (Psychology Ph.D.)
2022 – 2023	Misha Oraa Ali (Psychology M.S.)
2021 – 2023	Sandarsh Pandey (Psychology Ph.D.)
2021 – 2022	Alyxander Burns (Computer Science Ph.D.)