

# Cindy Ya Xiong

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

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## 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
		<i>(minor: Environmental Engineering)</i>

## Research Positions

2021 –	Assistant Professor <b>UMass Amherst, College of Information and Computer Sciences</b>
2016 – 2021	Graduate Student, Northwestern Visual Thinking Lab Advisor: <b>Steven Franconeri</b>
2019	User Experience Researcher <i>Charting Visual Design Revolution, Graphics and Charting Image Processing, Signal Processing and Communications</i> <b>The MathWorks</b>
2015 – 2016	Research Assistant, UCLA Computational Vision and Learning Lab <i>Psychophysics, Computational Psychology Approach to Intuitive Physics</i> Advisor: <b>Hongjing Lu</b>
2013 – 2016	Research Assistant, UCLA Civil and Environmental Engineering Jay Lab <i>Antibiotic Resistance in Airborne Bacteria</i> Advisor: <b>Jenny Jay</b>
2012 – 2016	Research Assistant, UCLA Human Perception Lab <i>Perceptual Learning applied to Chemistry, Algebra &amp; Music</i>

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 NSF CAREER (*IIS-HCC, \$631,846*)
- 2022 IEEE VGTC Visualization Dissertation Award Honorable Mention
- 2022 MathWorks Research Gift Grant
- 2022 IEEE VIS Honorable Mention for Best Poster Award  
(*One of three total awards given to poster submissions*)
- 2022 ACM CHI Honorable Mention for Best Paper Award  
(*Top 5% of submitted papers*)
- 2022 UMass Amherst Institute of Diversity Sciences Seed Grant
- 2021 Adobe Research Gift
- 2021 UMass Amherst College of Social & Behavioral Sciences Research Support Grant
- 2020 IEEE VIS Honorable Mention for Best Paper Award  
(*One of ten total awards given to full paper submissions*)
- 2020 Northwestern University Career Development Award
- 2019 Psychonomics Society Graduate Travel Award  
(*One of twenty awards given to graduate student presenters*)
- 2019 IEEE Doctoral Colloquium Fellowship
- 2019 Northwestern Cognitive Science Travel Award
- 2019 Northwestern TGS Conference Travel Award

- 2018 – 2019 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*)
- 2017 – 2018 Northwestern Cognitive Science Advanced Fellowship
- 2016 – 2017 Northwestern Cognitive Science Fellowship

## Refereed Publications

- 2023 **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
- 2022 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
- 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.  
Acceptance rate: 26.5%
- 2022 **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.  
Acceptance rate: 26.5%
- 2022 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.  
Acceptance rate: 26.5%
- 2022 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.  
Acceptance rate: 26.5%
- 2022 Wall, E., **Xiong, C.**, Kim, Y. (2022).

**VisHikers' Guide to Evaluation: Competing Considerations in Study Design.**  
IEEE Computer Graphics and Applications, 2022.  
Invited article.

- 2022 🏆 **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\*]
- 2022 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  
Acceptance rate: 24.6%
- 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%
- 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%
- 2021 Ajani, K., Lee, E., **Xiong, C.**, Knafllic, 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.  
Acceptance rate: 24.6%
- 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%
- 2020 🏆 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.  
Acceptance rate: 25.6%  
[\*Best Paper Honourable Mention\*]
- 2020 **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%
- 2019 **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%
- 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  
Acceptance rate: 24.6%
- 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).

**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.
- 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).
- 2021 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.


- 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.
- 2019 **Xiong, C.**,  
**Visualization Design to Afford Critical Thinking about Data.**  
IEEE VIS, 2019.
- 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.
- 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.
- 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 16<sup>th</sup> Annual Stanford Undergraduate Psychology Conference, Palo Alto, CA, 2016.

### **Organized Conference Workshops, Panels and Symposiums**

- 2021 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

- 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.
- 2018 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.
- 2017 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

- 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.
- 2022  Elhamdadi, H., Padilla, L., **Xiong, C.** (2022).  
**Processing Fluency improves Trust in Scatterplot Visualizations.**  
IEEE VIS, 2022.  
[\*Best Poster Honourable Mention]  
(Top 3 poster submissions)
- 2022 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.** (2021).  
**Show or Tell? Visual and Verbal Representations Bias Position Recall.**  
IEEE VIS, 2021.
- 2021 **Xiong, C.**, Stokes, C., Franconeri, S. (2021).  
**Visual Salience and Grouping Cues Guide Relation Perception in Visual Data Displays.**

VSS 2021.

- 2019 **Xiong, C.**, Ceja, C., Ludwig., C., & Franconeri, S. L. (2019).  
**Position Estimation Illusions in Visualized Data: Underestimation, Overestimation and Perceptual Pull.**  
OPAM, 2019, Montreal, Canada.
- 2019 **Xiong, C.**, Lee, E., & Franconeri, S. (2019).  
**Confirmation Bias in Graphical Displays.**  
Society for Judgment and Decision Making, 2019, Montreal, Canada.
- 2019 🏆 **Xiong, C.**, van Weelden, L., & Franconeri, S. (2019).  
**Same Data, Diverging Conclusions: Perceptual Salience Drives Data Interpretation.**  
Psychonomics 2019.  
[\*Graduate Travel Award\*] awarded to 20 students.
- 2019 Ceja, C., McColeman, C., **Xiong, C.**, & Franconeri, S.  
**Position Estimates in Bar Graphs: Error and Bias.**  
IEEE VIS, 2019.
- 2019 **Xiong, C.**, Ceja, C., Ludwig., C., & Franconeri, S. L.  
**Attraction and Response Probe Similarity Effects in a Multiple Ensemble Judgment Task.**  
VSS 2019.
- 2019 Lee, J., **Xiong, C.**, Ceja, C., & Franconeri, S. L.  
**Perceptual Bias in Object Position Estimates in Data Visualization.**  
28<sup>th</sup> UCLA Psychology Undergraduate Research Conference, Los Angeles CA, USA.
- 2019 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.
- 2018 **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.
- 2017 🏆 **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.**  
25<sup>th</sup> 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*

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 Jan	Georgia Institute of Technology	Atlanta, GA
2023 Jan	Emory University	Atlanta, GA
2022 Sept	University of Illinois Urbana-Champaign	Virtual
2022 June	ETVIS Workshop on eye tracking and visualization (keynote)	Virtual
2022 May	IT World Canada Digital Transformation Conference	Virtual
2022 Apr	University of Massachusetts, Amherst HCI Seminar	Amherst, MA
2021 Nov	Brown University	Providence, RI
2021 Nov	People Analytic RoundTable Milwaukee HCA	Virtual
2021 Oct	People Analytics Conference by the Conference Board	Virtual
2021 Oct	Department of Psychology, UMass Amherst	Amherst, MA
2021 Aug	Southern California People Analytics Meetup	Virtual
2021 Jun	Conference on Computer Vision and Pattern Recognition CQA Workshop	Virtual
2021 Feb	Adobe Workshop at Northwestern University	Virtual
2021 Feb	Yale University Behavioral Finance Reading Group	Virtual
2020 Jun	National Bureau of Economic Research	Virtual
2020 Apr	University of Massachusetts, Amherst	Amherst, MA
2020 Feb	Microsoft Research	New York City, NY
2020 Jan	University of Michigan, Ann Arbor	Ann Arbor, MI
2019 Nov	University of Massachusetts, Amherst	Amherst, MA
2019 Nov	University of Massachusetts, Boston	Boston, MA

2019 <i>Nov</i>	Wellesley College	Wellesley, MA
2019 <i>Nov</i>	Northeastern University	Boston, MA
2019 <i>Nov</i>	University Washington	Seattle, WA
2019 <i>Oct</i>	Tableau	Seattle, WA
2019 <i>Oct</i>	University of British Columbia	Vancouver, Canada
2019 <i>Oct</i>	Columbia University	New York City, NY
2019 <i>Oct</i>	New York University	New York City, NY
2019 <i>Sept</i>	Brown University	Providence, RI
2019 <i>Aug</i>	Tufts University	Medford, MA
2019 <i>July</i>	The MathWorks	Natick, MA
2019 <i>June</i>	Northwestern University Design Cluster	Evanston, IL
2019 <i>Mar</i>	Northwestern University Kellogg School of Management	Evanston, IL
2018 <i>Nov</i>	Northwestern University R User Group	Evanston, IL
2018 <i>Feb</i>	Northwestern University HCI Group	Evanston, IL

## Professional Services

### *Academic Service*

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 –	Co-Founder and Organizer VISxVISION initiative ( <a href="http://visxvision.com">visxvision.com</a> )
2022	Co-Chair IEEE VIS Workshop on TRust and EXpertise in Visual Analytics (TRESX)
2022	Session Chair, Short Paper Personal Visualization, Theory, Evaluation, and eXtended Reality IEEE VIS
2021	Session Chair, Full Paper Studies and Evaluation Methodology. IEEE VIS
2021	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

- 2019 Co-Chair  
IEEE VIS 2019 Workshop on Vis X Vision at IEEE InfoVis
- 2019 Advisory Group  
Journal of Vision, *Special Issue on Visualization*
- 2019 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*
- 2018 Organizer  
IEEE InfoVis 2018 *Visualization Meets Vision Science Meetup*
- 2017 Organizer  
IEEE InfoVis 2017 *Visualization Meets Vision Science Panel*
- 2017 Organizer  
VSS 2017 *Information Visualization Research Panel*
- 2016 – 2017 Editor  
UCLA *The Undergraduate Research Journal of Psychology*, Spring 2016 Issue

**Program Committee**

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

**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  
Computers & Graphics  
IEEE Computer Graphics and Applications  
IEEE Transactions on Visualization and Computer Graphics  
IEEE VIS

*University and Departmental Service*

- 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

**Graduate Students Mentored**

- 2022 – Misha Oraa Ali
- 2021 – Aimen Gaba
- 2021 – Hamza Elhamdadi
- 2021 – 2022 Prateek Mantri
- 2021 – 2022 Maliha Islam

2021 – 2022 Alyxander Burns

### **Undergraduate Students Mentored**

2022 – Jocelyn Velazquez  
2022 – Erin Melia  
2022 – Lily Thai Edmonds  
2022 – Bhoomika Raj Ethakota  
2022 – Will Huichen Wang  
2021 – Jason Cheung  
2021 – Christiana Lee  
2021 – Tiffany Lou  
2021 – Guilherme Santos Rocha  
2020 – Kylie Lin  
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 Committees**

2022 – Melanie Bancilhon (Computer Science Ph.D.)  
2022 – Misha Oraa Ali (Psychology Ph.D.)  
2021 – Sandarsh Pandey (Psychology Ph.D.)  
2021 – 2022 Alyxander Burns (Computer Science Ph.D.)