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Education

2017 –	Northwestern University	Ph.D.	Cognitive Psychology
		M.S.	Statistics
2016 – 2017	Northwestern University	M.S.	Psychology
2012 – 2016	UCLA	B.S.	Applied Mathematics
		B.A.	Psychology
			Minor: Environmental Engineering

Research Interests

Information Visualization, Visual Data Communication, Decision Making, Visual Cognition

Research Positions

2018 – 2019	Northwestern Design Research Fellow <i>Visualization Design for Critical Thinking about Data</i> Principal Investigator: Steven Franconeri & Jessica Hullman
2017 – 2018	Cognitive Science Advanced Fellow <i>Curse of knowledge in the Perception of Visualized Data</i> PI: Steven Franconeri & Adam Waytz
2016 – 2021	Graduate Student, Northwestern Visual Thinking Lab <i>Decision Making in Data Visualizations</i> PI: Steven Franconeri
2015 – 2016	Research Assistant, UCLA Computational Vision and Learning Lab <i>Psychophysics, Computational Psychology Approach to Intuitive Physics</i> PI: Hongjing Lu
2013 – 2016	Research Assistant, UCLA Civil and Environmental Engineering Jay Lab <i>Antibiotic Resistance in Airborne Bacteria</i> PI: Jenny Jay
2012 – 2016	Research Assistant, UCLA Human Perception Lab <i>Perceptual Learning applied to Chemistry, Algebra & Music</i> PI: Phil Kellman

International Visiting and Development

2018	Utrecht University <i>Utrecht, the Netherlands</i> Ambiguity in Graph Pattern Interpretation and Perspective Taking PI: Lisanne van Weelden
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- 2018 Summer School on Computational and Mathematical Modeling of Cognition
Couches, France
Perceptual Anchoring of Inferences from Dual-axis Graphs
PI: **Casimir Ludwig**
- 2015 Peking University
Beijing, China
Social Status and Its Relationship to Neural Responses to Fairness
PI: **Xiaolin Zhou**

Teaching Experience

2015 Winter	Teaching Assistant	UCLA	Introduction to Psychology
2017 Winter	Teaching Assistant	Northwestern University	Brain Damage and the Mind
2017 Spring	Teaching Assistant	Northwestern University	Decision Making
2017 Fall	Teaching Assistant	Northwestern University	Developmental Psychology
2017 Fall	Guest Lecturer	Northwestern University	Cognitive Science Proseminar

Grants and Fellowship

- 2018 – 2019 Northwestern Segal Design Research Fellowship (\$18,781)
- 2018 Northwestern Department of Psychology Summer Workshop Travel Grant (\$1,000)
- 2018 Northwestern TGS Conference Travel Grant (\$1,250)
- 2017 – 2018 Northwestern Cognitive Science Advanced Fellowship (\$25,650)
- 2016 – 2017 Northwestern Cognitive Science Fellowship (\$29,880)

Publications

Xiong, C., van Weelden, L., Waytz, A., & Franconeri, S. (in prep). Same Graph, Different Conclusions: Top-Down Processes lock People into Persisting Perspectives.

Xiong, C., Hullman, J., Shapiro, J., & Franconeri, S. (in prep) Correlation is Not Causation: Design Guidelines for Facilitate Appropriate Understanding of Data.

Xiong, C., Ceja, C., Ludwig, C., & Franconeri, S. (in prep) Perceptual Pull: Systematic Biases in Position Estimation of Graphical Elements.

Lee, E., **Xiong, C.**, & Franconeri, S. (in prep) Confirmation Bias in Data Visualization.

Xiong, C., van Weelden, L., & Franconeri, S. (under revision). The Curse of Knowledge in Data Visualizations.

Bufford, C. A., Thai, K. P., Ho, J., **Xiong, C.**, Hines, C. A., & Kellman, P. J. (2016). Perceptual learning of abstract musical patterns: Recognizing composer style. In T. Zanto, T. Fujioka, P. Janata, J. Johnson, J. Berger, J. Slater, & C. Chafe (Eds.), *Proceedings of the 14th Annual Conference of the International Conference for Music Perception and Cognition* (pp. 8-12).

Invited Talks

Xiong, C., van Weelden, L., & Franconeri, S., (2018). The curse of knowledge in visual data communication. Student Research Colloquium Series, Northwestern University HCI Group. February 22nd, 2018.

Conference Talks

Xiong, C., van Weelden, L., & Franconeri, S., (2017). The Power of Top-Down Saliency in Data Visualizations. Talk at OPAM 2017, Vancouver, Canada.

Xiong, C., van Weelden, L., & Franconeri, S., (2017). The curse of knowledge in visual data communication. Talk at IEEE Transactions on Visualization and Computer Graphics, InfoVis DECISIVE Workshop 2017, Phoenix, Arizona.

Xiong, C., Kubricht, J., Lu, H. (2016). A Computational Investigation into Intuitive Physics for Colliding Objects. Talk at the 16th Annual Stanford Undergraduate Psychology Conference, Palo Alto, CA, USA.

Conference Panels and Symposiums

Madison E., Bylinskii, Z., Nothelfer, C., **Xiong, C.**, Albers Szafir, D., (2018). Visualization Meets Vision Science. Meetup at *IEEE Transactions on Visualization and Computer Graphics*, InfoVis, Berlin, Germany.

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

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

Nothelfer, C., Bylinskii, Z., Elliott, M., **Xiong, C.**, & Szafir, D.A. (2017) Vision Science Meets Visualization. Panel organized at *IEEE Transactions on Visualization and Computer Graphics, InfoVis*, Phoenix, Arizona.

Conference Presentations

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

Xiong, C., Ceja, C., Lee, J., Franconeri, S. (2018). 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.

Xiong, C., van Weelden, L., & Franconeri, S., (2017). Graphs as Ambiguous Figures. Poster presented at *Vision Sciences Society Annual Meeting 2018 May*, St. Pete Beach, Florida.

Xiong, C., van Weelden, L., & Franconeri, S., (2017). The curse of knowledge in visual data communication. IEEE Transactions on Visualization and Computer Graphics, InfoVis 2017, Phoenix, Arizona. [***Best Poster Honourable Mention**]

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

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

Services

Brownbag Coordinator, Northwestern University Department of Psychology, Cognition.

Reviewer: IEEE InfoVis 2018 Conference

Reviewer: ACM CHI: ACM Conference on Human Factors in Computing Systems 2019 Conference

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

Committee Member: UCLA Common Book Committee

Professional Memberships

Psychonomic Society Student Member

Vision Sciences Society Student Member

Language Proficiency

English

Native

Chinese (Mandarin)

Native

Japanese

Conversational