# Tian Linger Xu

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2018

## **EMPLOYMENT**

Postdoctoral Fellow	2018-present
Indiana University, Bloomington, IN	
Department of Psychological and Brain Sciences	
Advisors: Linda B. Smith & Chen Yu	
EDUCATION	
Dual Ph.D. in Computer Science and Cognitive Science	2018
Indiana University, Bloomington, IN	
School of Informatics, Computing, and Engineering	
Dissertation Committee: Chen Yu, David Crandall, Linda B. Smith, & Selma Šabanović	
M.S. in Computer Science	2012
Indiana University, Bloomington, IN	
School of Informatics, Computing, and Engineering	
B.E. in Software Engineering	2009
Nanjing University, Nanjing, China	
Software Institute	

### **RESEARCH GRANTS**

NICHD Training Program in Integrative Developmental Processes (T32)

### PUBLICATION

- Xu, T.L., Abney, D.H. & Yu, C. (2017). Discovering Multicausality in the Development of Coordinated Behavior. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Yuan L., Xu, T.L., Yu, C. & Smith, L.B. (2017). Sustained Visual Attention Is More Than Seeing. Submitted to *Journal of Experimental Child Psychology*.
- Yuan L., Xu, T.L., Yu, C. & Smith, L.B. (2017). Seeing Is Not Enough for Sustained Visual Attention. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Xu, T. & Yu, C. (2016) Quantifying Joint Activities using Cross-Recurrence Block Representation. Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.) *Proceedings of the 38th Annual Meeting of the Cognitive Science Society*, (pp. 1997-2002). Austin, TX: Cognitive Science Society.
- Xu, T.L., Zhang, H. & Yu, C. (2016). See You See Me: The Role of Eye Contact in Multimodal Human-Robot Interaction. *ACM Transactions on Interactive Intelligent Systems*, 6(1), 2.
- Yu, C., Xu, T., Zhong, Y. & Zhang, H. (2014). Learning to interact and interacting to learn: Active statistical learning in human-robot interaction. In *Neural Networks (IJCNN), 2014 International Joint Conference on* (pp. 684-691). IEEE.

- Xu, T., Zhang, H., & Yu, C. (2013). Cooperative gazing behaviors in human multi-robot interaction. *Interaction Studies*, *14*(3), 390-418.
- Yu, C., Yurovsky, D. & Xu, T.L. (2012). Visual Data Mining: An Exploratory Approach to Analyzing Temporal Patterns of Eye Movements. *Infancy*, 17(1), 33-60.
- Xu, T., Yu, C. & Smith, L.B. (2011). It's the Child's Body: The Role of Toddler and Parent in Selecting Toddler's Visual Experience. In *Proceedings of IEEE 10th International Conference in Development and Learning and Epigenetic Robotics (ICDL-EpiRob 2011)*.

# INVITED TALKS AND ORGANIZED WORKSHOPS

- Xu, T.L., de Barbaro, K. & Cox, R.F.A. (July 2018). Finding Structure in Time. *The 21<sup>st</sup> International Congress of Infant Studies*. Philadelphia, PA, USA.
- Xu, T.L., Abney, D.H. Smith, L.B. & Yu, C. (July 2018). New Technology Leads to New Discoveries: A Case Study of Using Computational Algorithms to Understand Parent-Infant Interaction. *The 21<sup>st</sup> International Congress of Infant Studies*. Philadelphia, PA, USA.
- Xu, T.L., Abney, D.H. & Yu, C. (July 2017). Discovering Multicausality in the Development of Coordinated Behavior. *The 39th Annual Meeting of the Cognitive Science Society*. London, England, UK.
- Xu, T.L., (May 2017) Investigating Social Contingencies and Temporal Patterns in Multimodal Coordinated Behaviors. *Cognitive Interaction Technology Workshop*. Bloomington, IN, USA.
- Xu, T.L. & Yu, C. (August 2016). Quantifying Joint Activities using Cross Recurrence Block Representation. *The* 38th Annual Meeting of the Cognitive Science Society. Philadelphia, PA, USA.

### **POSTER PRESENTATION**

- Xu, T. Abney, D.H. and Yu, C. (2017). Quantifying the Dynamics of Real-Time Coordinated Attention with Cross Recurrence Block Quantification Analysis at *Workshop on Egocentric Vision: from Science to Real-World Applications. Bloomington*, IN, USA.
- Xu, T. and Yu, C. (2015). Quantifying Coupled Behavior in Social Interaction using Cross-Recurrence Quantification Analysis at *Mechanisms of learning in social contexts, ICDL-EPIROB*. Providence, Road Island, USA.
- Xu, T., Zhang, H. and Yu, C. (2013). Cooperative Gazing Behaviors in Multi-Robot Human Interaction at *Summer School on Social Human-Robot Interaction*. Cambridge, England, UK.
- Boyer, T. W., Xu, T., Yu, C., & Bertenthal, B. I. (2012). Infants' Visual Attention While Viewing Naturalistic Actions. Poster presentation at *Vision Science Society Conference*. Tampa, FL, USA.
- Xu, T., Yu, C. (2011) Dynamic Attention Shifting in Natural Human-Human Interaction. Poster presentation at *Vision Science Society Conference*. Tampa, FL, USA.

# ACADEMIC HONORS AND AWARDS

•	The International Congress of Infant Studies (ICIS) Graduate Student Travel Award, Philadelphia, PA, U.S.	2018
•	The IUB Provost's Travel Award for Women in Science, Bloomington, IN, U.S.	2017
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• The Robert J. Glushko and Pamela Samuelson Foundation Student Travel Award, London, 2017 England, U.K.

•	The Robert J. Glushko and Pamela Samuelson Foundation Student Travel Award, Philadelphia, PA, U.S.	2016
•	Best Poster Award, Summer School on Social Human-Robot Interaction, Cambridge, England, U.K.	2013
٠	Outstanding Graduates, Nanjing University (Top 5% Students), Nanjing, China	2009
•	1st Place, 2008 Programming Competition, Software Institute, Nanjing University, Nanjing, China	2008
•	Visiting Student Travel Grant, Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan	2008
•	First Degree (Top 5% Students), People's Scholarship of Nanjing University, Nanjing, China	2006

# TEACHING

Guest Lecturer, Indiana University				
•	P657 Machine Learning in Cognitive Science	SPRING 2017		
Associate Instructor, Indiana University				
•	B649 Cloud Computing	SPRING 2015		
•	B649 Cloud Computing	SPRING 2014		
•	B555 Machine Learning	SPRING 2013		
•	B461 Database Concepts	SPRING 2012		
•	B565 Data Mining	Spring 2011		
•	A348/B548 Mastering the World Wide Web	SPRING 2010		
•	A201 Introduction to Programming in Python	Fall 2010, Summer 2010, Fall 2009		

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