

Tian Linger Xu

Computational Cognition and Learning Lab
Indiana University Bloomington
1101 East 10th Street, Bloomington, 47408, IN

Phone: +1-812-606-2283
E-mail: txu@indiana.edu
<http://homes.soic.indiana.edu/txu/>

RESEARCH INTEREST

Interpersonal Coordination; Child Development; Computational Perception and Learning Models for Embodied Robotic Agents; Human Robot Interaction; Multimodal Interaction
Temporal Data Mining and Visualization; Cross Recurrence Quantification Analysis; Granger Causality.

EDUCATION

SCHOOL OF INFORMATICS AND COMPUTING, INDIANA UNIVERSITY BLOOMINGTON	INDIANA, U.S.
Ph.D. in Computer Science, present	
COGNITIVE SCIENCE, INDIANA UNIVERSITY BLOOMINGTON	INDIANA, U.S.
Ph.D. in Cognitive Science, present	
SCHOOL OF INFORMATICS AND COMPUTING, INDIANA UNIVERSITY BLOOMINGTON	INDIANA, U.S.
Master in Computer Science, Dec. 2012	
SOFTWARE INSTITUTE, NANJING UNIVERSITY	NANJING, CHINA
B.E. Software Engineering, Jun. 2009	

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). 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)*.

ORAL PRESENTATION

- **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.** & 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.** 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.
- Yu, C., Smith, L., Fricker, D., Favata, A., **Xu, T.** (2011). Where Does Visual Joint Attention Come From: A Dual Head Mounted Eye Tracking Study in Child-Parent Interaction. 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.

TEACHING

Guest Lecturer, Indiana University Bloomington

- P657 Machine Learning in Cognitive Science SPRING 2017

Associate Instructor, Indiana University Bloomington

- 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

HONORS AND AWARDS

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