

## Curriculum Vitae

**Shulan Lu**

**Revised Aug 2024**

Professor

Texas A & M University – Commerce

### Contact Information

Department of Psychology and Special Education  
Texas A & M University – Commerce  
Commerce, TX, 75429-3011, U. S. A.  
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### Research Interests

- Embodied and Grounded Cognition
- Learning and Instruction
- Human Centered Computing
- Event Perception

### Education

2004	Ph.D. in Cognitive Science The University of Memphis, Memphis, TN.
1999	Master's degree in Linguistics and Applied Linguistics Zhejiang University, China.
1993	Undergraduate degree in Mechanical Engineering Nanjing Broadcasting University, China.

### Professional Experiences

#### Professional Positions

Sept, 2016-	Full Professor (tenured), Texas A&M University - Commerce
Sept, 2012-Aug, 2013	Senior researcher, Carnegie Mellon University
Sept, 2010-Aug, 2016	Associate Professor (tenured), Texas A & M University - Commerce
Aug, 2004- 2010	Assistant Professor, Texas A & M University - Commerce
July, 1999- 2004	Research Associate, University of Memphis

### Journal Review and Editorial

Editorial Board, Collabra Psychology (the official journal of the Society for the Improvement of Psychological Science)

Editorial Board, SOJ Psychology, Symbiosis Reinventing Research Ideas.

Cognitive Psychology

Cognitive Science

Developmental Psychology

Discourse Processes

Frontier in Psychology

IEEE Transactions on Visualization and Computer Graphics

Interacting with Computers

Journal of Cognitive Education and Psychology

Journal of Educational Psychology

Journal of Experimental Psychology: Learning, Memory and Cognition

Memory and Cognition

### Grant Reviews

NSF Graduate Research Fellowship Program

NSF Human Centered Computing Program

NSF Cyber Human Systems

Texas A & M University – Commerce Research Enhancement Grants, Interdisciplinary Research Grants, and Summer Student Research Fellowship

### Meeting Reviews

Cognitive Science Society Annual Conference Proceedings.

Society for Text and Discourse Annual Conference.

International Conference for Innovative Virtual Reality.

Program Committee, 2012 Brain Inspired Cognitive System Conference

International Conference on Education and E-learning

### Book Reviews

MIT Press

Praeger

Sage

Norton

Teaching (U for Undergraduate; G for Graduate)

TAMUC	Aspects of psychology (U, PSY 214)
TAMUC	Introductory Psychology (U, PSY 2301)
TAMUC	Applied Professional Ethics (U, PSY 205)
TAMUC	Experimental Psychology and Laboratory (Research Methods) (U, PSY 305)
TAMUC	Evolutionary Psychology (U, PSY 325)
TAMUC	Cognitive Psychology (U, PSY 350)
TAMUC	Social Psychology (U, PSY 327)
TAMUC	I/O Psychology (U, PSY 404)
TAMUC	Human Computer Interaction Design (U, PSY 414 cross listed with Computer Science 497)
TAMUC	Morality in Everyday Life (U, PSY 497)
TAMUC	Eye Tracking (U, PSY 497)
TAMUC	Cognitive Science (G, PSY 511)
TAMUC	Human Computer Interaction Design (G, PSY 517)
TAMUC	Perception (G, PSY 601)
TAMUC	Psychological and Educational Statistics (G, PSY 612)
TAMUC	Human Learning and Cognition (G, PSY 620)
TAMUC	Advanced Cognition (G, online, PSY621)
TAMUC	Cognition and Instruction I (G, PSY 625)
TAMUC	Cognition and Instruction II (G, PSY 626)
TAMUC	Introduction to Learning Technology (G, PSY 645)
TAMUC	Advanced seminar: Language and thought (G, PSY 675)
TAMUC	Advanced seminar: Embodied cognition (G, PSY 675)
TAMUC	Advanced seminar: How to manage thesis / dissertation (G, PSY 675)
TAMUC	Advanced seminar with laboratory: Eye tracking (G, PSY 697, cross listed with Linguistics)
Memphis	Cognitive science seminar (G, co-taught with Art Graesser)

Graduate Theses

POSTDOCTORAL SUPERVISOR: Devin Pierce (Aug 2010-June 2011), Terry Rawlinson (June 2012-Sept 2012).

DISSERTATION SUPERVISOR: Pratyush Kotturu (Ph.D., 2014), Paweena Kosito (Ph.D., 2013), Devin Pierce (PhD, 2010), Terry Rawlinson (PhD, 2011), Kaleb Mathieu (PhD Qualifying, 2023); Reynolds Ballotti (Current).

THESIS SUPERVISOR: Denise Askew (Psychology, 2012), Sarah Lawrence (Psychology, 2009), Terry Rawlinson (Psychology, 2009), Lonnie Wakefield

(Psychology, 2008), Kaleb Mathieu (Psychology, 2022), Britta Schwab (Psychology, 2022), RJ Ballotti (Psychology, 2023), Amy Hays (2022-2023).

THESIS COMMITTEE MEMBER: Devin Pierce (Psychology, 2007), Crystal Burton (Human Performance, 2009), Tim Seo (Human Performance, 2010), Comfort Atanga (Psychology, 2016), Thomas Brook (Psychology, 2018), Lars Ojinnaka (Computer Science, 2020), Phoenix Michael Carlini (Psychology, 2019), Marcy Luis (Psychology, 2020), Margaret Dwiggins (Psychology, 2021), Amy Hays (Computer Science, 2021), Bailey Ayers (Psychology, 2021), Derik Gray (Psychology, Current), Noshewan Ijaz (Computer Science, 2021); Andrew Tague (Psychology, 2024); Zane Brand (Psychology, 2024); Stephanie Tally (Psychology, Current).

DISSERTATION COMMITTEE MEMBER: Sau Hou Cheng (PhD, 2007), Tom Faulkenberry (for candidacy), Kendra Ingram (PhD, 2008), Mei Jiang (PhD, 2009), Nick Smith (PhD, 2010), Robert Steeber (Ed.D, 2008), Eliza Gironzetti (PhD in linguistics, 2017), Jennifer Shaw (Psychology, 2018), Dana Curry (PhD, 2023), Margaret Dwiggins (PhD, 2024), Teresa Perry (Counseling, Current).

McNair Scholar: Natausha Wright (2016)  
Honor's Thesis: Sarah Hogan (2021)

#### Additional Students Supervised and (or) Funded

Over 60 graduate and undergraduate student research projects (TAMUC)  
About 10 undergraduate student research experiences (University of Memphis)

#### Professional Affiliations

- Association of Psychological Science
- Behavioral and Brain Sciences
- Cognitive Science Society
- Psychonomic Society
- Society for Text and Discourse
- Association for Improving Psychological Science

#### Professional Service

- Program Committee Member, International Conference on Brain Inspired Cognitive System, 2012;
- Member, Search Committee for the Dean of College of Science, Engineering, and Agriculture (TAMUC), 2011;
- Member, University Research and Creative Activity Committee (TAMUC), 2007-2010; 2013-2016.
- Member, University McNair Scholar Program Committee (TAMUC), 2016- ;

- Member, University AI Master's Degree Program Committee (TAMUC), 2023-.
- Ad hoc member, College Grade Appeal Committee (TAMUC), 2011-2012;
- Coordinator, Department Doctoral Committee (TAMUC), 2006- 2009;
- Member, Department Doctoral Committee (TAMUC), 2009-;
- Member, Department Faculty Search Committee (TAMUC), 2005-2008, 2016-2017
- Member, Department Library Committee (TAMUC), 2004-;
- Member, Department Comprehensive Exam Committee (TAMUC), 2007;
- Member, Department Search Committee (2007-2009; 2016-2018);
- Member, Department Subject Pool Committee, 2010-;
- Member, Department Curriculum Change Committee, 2019-.
- Member, Department Faculty Peer Teaching Evaluation Committee, 2022-2023;
- Grader, Department Master's & Doctoral Comprehensive Exams, 2004-;
- Chair, Department Tenure and Promotion Committee, 2018-;
- Chair, Department Clinical Psychology Faculty Search Committee, 2021, 2022-2023
- Chair, Department School Psychology Faculty Search Committee, 2023-2024
- Chair, Department of Computer Science Faculty Search Committee, 2023
- Chair, Department Introduction to Psychology (PSY 2301) Curriculum Committee, 2022-

### **Honors and Awards**

2020	Class Award, College of Education and Human Service, Texas A & M University – Commerce.
2012	Inclusion in the Authors Honor Walk in Authors' Park, The City of Commerce Chamber, TX.
2011	The Donna Dunbar Odom "Fearless Investigation" Award, Texas A & M University – Commerce Faculty Senate.
2011	Provost Award for Research and Creative Activity, Texas A & M University – Commerce.
2008	Junior Faculty Research Award, Texas A & M University – Commerce.
2006	Travel Award of Women in Cognitive Science, sponsored by the NSF advanced leadership grant. (An application was required to be endorsed by an eminent scientist in the respective research area; 2 awards per year nationally across the broad areas of cognitive science).
2004	Letter of Commendation for Research from the Experimental Psychology Faculty at the University of Memphis.
2003	Letter of Commendation for Research from the Experimental Psychology Faculty at the University of Memphis.

2000	Summer Psycholinguistics 2000 Travel Grant, University of Southern Denmark (Declined)
1999	Graduation with the Highest Honor, Zhejiang University.

### External Grants

**PI**, DoD, US Army Research Lab Cooperative Agreement, Title: Embodied Cognition and Cognitive Control in the Lab and the Real-World. (**\$50,000 base award + \$24,980**, June 24, 2021-June 23, 2024).

**PI**, NSF, AR and AI Enhanced Collaborative Learning System for Chemistry and Computer Science. Grant proposal submitted to NSF, \$687,482 requested, declined.

**PI**, IES, Transformative Research in the Education Sciences Title: Building an Artificial Intelligence Enhanced Augmented Reality Learning System for Promoting Collaborative Learning in Chemistry. (\$985,975 requested, declined)

**Consultant**, Office of Naval Research Minerva Initiative: The political crisis and language: A computational assessment of social disequilibrium and security threats. (\$1, 285, 649 awarded, **Sept 2014-2017**, PI Leah Winsor at University of Memphis).

**PI**, National Science Foundation Human Centered Computing Grant, Title: Perceiving and enacting actions in simulated environments: The role of perceptual motor features and individual differences. (**\$500,000 awarded**, September 2009 - 2014).

**PI**, National Science Foundation Human Centered Computing Grant, Title: The role of sensorimotor and perceptual features in perceiving and enacting actions. (**\$70,000 awarded**, September 2007- 2008).

**Co-PI**, Department of Energy Grant, Title: The development of an artificial science and engineering research infrastructure to facilitate innovative computational modeling, analysis, and application to interdisciplinary area of scientific investigation, Sam Saffer as PI. (**\$369,000 awarded**, January 2010-2011).

**Co-PI**, Texas Advanced Research Program Grant, Title: Investigation of formation of intentionality in intelligent systems, Derek Harter as PI. (**\$100,000 awarded**, May 2006-2008).

**Co-PI**, L-3 Comcept Research and Development Grant, Title: Cognitive models as abstract virtual machines for automatic object discovery, identification, location and tracking, Derek Harter as PI. (\$385,000 awarded, December 2005-June 2008)

Recipient, a travel award from Women in Cognitive Science Society, supported by an NSF advanced leadership grant. Provided opportunities and resources for working with senior scientist. (\$2000 awarded, August 2006).

**Co-PI**, National Science Foundation, SMA REU, Title: Applied research in psychology, Lacy Krueger as PI (\$250, 615 requested, declined).

**TAMU Commerce PI**, Multi-institution collaboration: NIH BUILD Initiative. (TAMU International and TAMU College Station were the lead, **\$25, 000, 000 total requested in 2014**, declined)

**Co-PI**, National Science Foundation MRI Consortium: Acquisition of mobile eye tracking research consortium of social / human computer interactions in everyday life and STEM learning (declined)

Recipient, a travel fellowship for the 34<sup>th</sup> Carnegie Symposium on Cognition: Embodiment, ego-space, and action. (\$700 awarded, April 2006).

### Internal Support

PI, Texas A & M University – Commerce Research Enhancement Grant, Title: The role of embodiment in perception and action in virtual environments. (\$13,265 awarded, Sept 2009-2010)

PI, Texas A & M University – Commerce Research Enhancement Grant, Title: An investigation of enacting risky actions. (\$11, 680 awarded, Sept 2008-Aug 2009).

PI, Texas A & M University – Commerce Research Enhancement Grant: A computational and empirical investigation of time in perceiving, remembering, and describing events and actions. (\$6, 128 awarded, Sept 2005-Aug 2006).

PI, Texas A & M University – Commerce Mini Research Grant, Title: Investigating the formation of abstract concepts. (\$600 awarded, November 2004).

PI, Texas A & M University – Commerce Equipment Matching Grant. (approx. \$7000 from University matching \$15,000 external grant for an eye tracker).

Faculty Advisor, Texas A & M University – Commerce Presidential GAR Initiative (the stipend and tuition up to 6 credits per semester for each academic year). (FY 2021, FY 202, FY 2023).

## Publications

### 2003-

**Lu, S.**, & Franceschetti, D. R. (2003). Perceiving and describing motion events. *Behavioral and Brain Sciences*, 26, 295-296.

**Lu, S.** (2001). Inference construction and metacognitive control in foreign language reading. In L. Chen & Y. Zhuo (Eds.), *Proceedings of the Third International Conference on Cognitive Science* (pp. 638-642). Beijing, China: Press of the University of Science and Technology of China.

**Lu, S.**, Olde, B., Cooper, E. & Graesser, A. C. (2001). Individual differences in reasoning about broken devices: An eye tracking study. In J. D. Moore & K. Stenning (Eds.), *Proceedings of the 23rd Annual Meeting of the Cognitive Science Society* (pp. 582-587). Mahwah, NJ: Erlbaum.

### 2004

Graesser, A.C., **Lu, S.**, Jackson, G. T., Mitchell, H., Ventura, M., Olney, A., & Louwerse, M. M. (2004). AutoTutor: A tutor with dialogue in natural language. *Behavior Research Methods, Instruments, and Computers*, 36, 180-192.

**Lu, S.**, & Graesser, A. C. (2004). What is universal in perceiving, remembering, and describing event temporal relations? In K. D. Forbus, D. Gentner, & T. Regier (Eds.), *Proceedings of the 26th Annual Meeting of the Cognitive Science Society*. Mahwah, NJ: Erlbaum.

### 2005

Graesser, A. C., **Lu, S.**, Olde, B., Cooper-Pye, E., Whitten, S. N. (2005). Question asking and eye tracking during cognitive disequilibrium: Comprehending illustrated texts when the devices breakdown. *Memory and Cognition*, 33, 1235-1247.

Graesser, A. C., Olde, B., Pomeroy, V., Whitten, S., **Lu, S.**, & Craig, S. (2005). Inferences and questions in science text comprehension. *Tarbiya*, 36, 103-129. (A Spanish Journal)

Harter, D., & **Lu, S.** (2005). A synthesis of many levels of constraints as a modern view of development. *Behavioral and Brain Sciences*, 28, 498-499.

Louwerse, M. M., Graesser, A. C., **Lu, S.**, & Mitchell, H. (2005). Social cues in animated conversational agents. *Applied Cognitive Psychology*, 19, 1-12.



**Lu, S., & Harter, D. (2005).** Representing events using fuzzy temporal boundaries. In B. G. Bara, L. Barsalou, & M. Bucciarelli (Eds.), *Proceedings of the 27th Annual Meeting of the Cognitive Science Society* (pp. 1343-1348). Mahwah, NJ: Erlbaum.

**Lu, S., & Pierce, D. (2005).** Perceiving and describing event temporal dynamics. In B. G. Bara, L. Barsalou, & M. Bucciarelli (Eds.), *Proceedings of the 27th Annual Meeting of the Cognitive Science Society* (pp. 1349-1354). Mahwah, NJ: Erlbaum.

## 2006

**Lu, S., & Harter, D. (2006).** The role of overlap and end state in perceiving and remembering events. In R. Sun, & N. Miyake (Eds.), *Proceedings of the 28th Annual Meeting of the Cognitive Science Society* (pp. 1729-1734). Mahwah, NJ: Erlbaum.

## 2008

Louwerse, M., Graesser, A. C., McNamara, D., & **Lu, S.** (2008). Embodied conversational agents as conversational partners. *Applied Cognitive Psychology: Special Theme Issue*. doi: 10.1002/acp. 1527

## 2009

**Lu, S., Harter, D., & Graesser, A. C. (2009).** An empirical and computational investigation of perceiving and remembering event temporal relations. *Cognitive Science*, 33, 344-373.

Pierce, D., **Lu, S., & Harter, D. (2009).** Enacting actions in simulated environments. In S. Garbaya (Eds.), *Proceedings of the Inaugural World Conference on Innovative Virtual Reality* (pp. 117-122). New York: ASME Publishing.

## 2010

Pierce, D., **Lu, S., & Harter, D. (2010).** Perceiving events in simulated environments: The role of expectation driven processes. In P. Oliver & J. Vance (Eds.) *Proceedings of the World Conference on Innovative Virtual Reality* (pp.1-7). New York: ASME Publishing.

## 2011

**Lu, S., Harter, D., & Pierce, D. (2011).** Potentials and challenges of using virtual environments in psychotherapy. *Annals of Psychotherapy and Integrative Health*, 1, 56-66.

**Lu, S., Pierce, D., Rawlinson, T., & Harter, D. (2011).** The role of high visual realism in reducing potential risk taking in simulated environments. In M. Boregoni, J. M. Ritche,

& U. Cugini (Eds.) *Proceedings of the World Conference on Innovative Virtual Reality*. New York: ASME Publishing.

Harter, D., **Lu, S.**, Kotturu, P., & Pierce, D. (2011). An immersive virtual environment for varying risk and immersion for effective training. In M. Boregoni, J. M. Ritchie, & U. Cugini (Eds.) *Proceedings of the World Conference on Innovative Virtual Reality*. New York: ASME Publishing.

## 2012

**Lu, S.**, & Wakefield, L. (2012). The role of event boundaries in language: Perceiving and describing the sequence of simultaneous events. In H. Zhang et. al. (Eds.), *Lecture Notes in Artificial Intelligence*, 7366, 198-207. Berlin: Springer – Verlag.

Rawlinson, T., **Lu, S.**, & Coleman, P. (2012). Individual differences in working memory capacity and presence in virtual environments. In H. Zhang et. al. (Eds.), *Lecture Notes in Artificial Intelligence*, 7366, 22-30. Berlin: Springer – Verlag.

Harter, D., Lu, S., Kosito, P., & Kotturu, P. (2012). How controller embodiment effects task performance in computer simulated training. *Proceedings of the 7th International Conference on Human Computer Interaction*, Calgary: ACTA Press.

## 2013

Lu, S., & Wakefield, L. (2013). What you talk about is what you look at. *Lecture Notes in Computer Science*, LNAI7888, 261-270. Berlin: Springer-Verlag. DOI, 10.1007/978-3-642-38786-9\_30

**Lu, S.**, & Graesser, A. C. (2013). Comprehending and imagining event temporal relations. *Journal of Mental Imagery*, 37 (3-4), 49-72.

## 2014

**Lu, S.**, Harter, D., Kosito, P., & Kotturu, P. (2014). Developing low cost virtual training environments: How do effector and visual realism influence the perceptual grounding of actions? *Journal of Cognitive Education and Psychology*, 13, 1-17.

## 2015

**Lu, S.**, Harter, D. (2015). Essentialism in food preference. *Annals of Psychotherapy and Integrative Health*, 3, 1-5.

## 2016

**Lu, S.,** Harter, D. (2016). Toward a cognitive processing theory of player's experience of computer mediated environments. *Proceedings of the 2016 Annual Symposium on Computer-Human Interaction in Play Companion*, 198-203. ACM, New York, NY, USA, 198-203. DOI: <https://doi.org/10.1145/2968120.2987742>

**Lu, S.,** Harter, D. (2016). Applying predictive processing and functional redeployment to understanding embodied virtual experiences. *SOJ Psychology*, 3, 1-9. DOI: <https://symbiosisonlinepublishing.com/psychology/psychology30.pdf>

## 2019

**Lu, S.,** Harter, D., Wu, G., & Kotturu, P. (2019). The role of effector physicality and risk perception in virtual environments. In A.K. Goel, C. M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 2208-2213). Montreal, QB: Cognitive Science Society.

Atanga, C., Jones, B. A., Krueger, L. E., & **Lu,S.** (2019). Teachers of students with learning disabilities: Assistive technology knowledge, perceptions, interests, and barriers. *Journal of Special Education Technology*, 34, 1-13, DOI: <https://doi.org/10.1177/0162643419864858>

**Lu, S.,** & Rawlinson, T., & Harter, D. (2019). Embodied in virtual environments: The role of working memory in experiencing presence as revealed via eye tracking. *Journal of Cognitive Education and Psychology*, 18 (2), 1-21. DOI: 10.1891/1945-8959.18.2.223

## 2020

Jiang, M., & **Lu, S.** (2020). To empathize, or not empathize in educational leadership. *Journal of Organizational and Educational Leadership*, 5(1), 3.

Wang, Y., **Lu, S.,** & Harter, D. (2020). Eye tracking and learning analytics for promoting proactive teaching and learning in classroom: a survey. In *Proceedings of the 4th International Conference on Education and E-Learning*. Tsuru, Japan: Association for Computing Machinery.

## 2021

Wang, Y., **Lu, S.,** & Harter, D. (2021). Multi-Sensor Eye-Tracking Systems and Tools for Capturing Student Attention and Understanding Engagement in Learning: A Review. *IEEE Sensors Journal*. <https://doi.org/10.1109/JSEN.2021.3105706> (Impact Factor: 4.325)

Wang, Y., Lu, S., & Harter, D. (2021). Towards Collaborative and Intelligent Learning Environments Based on Eye Tracking Data and Learning Analytics: A Survey. *IEEE Access*. doi: 10.1109/ACCESS.2021.3117780 (Impact Factor: 3.367)

## 2022

Morey, R. D., Kaschak, M. P., Díez-Álamo, A. M., Glenberg, A. M., Zwaan, R. A., Lakens, D., Ibáñez, A., García, A., Gianelli, C., Jones, J. L., Madden, J., Alifano, F., Bergen, B., Bloxsom, N. G., Bub, D. N., Cai, Z. G., Chartier, C. R., Chatterjee, A., Conwell, E., Cook, S. W., ..., Lu, S., ... Ziv-Crispel, N. (2022). A pre-registered, multi-lab non-replication of the action-sentence compatibility effect (ACE). *Psychonomic bulletin & review*, 29(2), 613–626. <https://doi.org/10.3758/s13423-021-01927-8> (Impact Factor: 5.606)

## 2023

Caron, E.E., Marusich, L.R., Bakdash, J.Z., Balotti, R.J., Tague, A., Carriere, J.S.A, Smilek, D., Harter, D., Lu, S\*, & Reynolds, M.G.\* (2023). The influence of posture on attention. <https://doi.org/10.1027/1618-3169/a000567>. *Experimental Psychology*. (Shared senior authors)

## 2024

Harter, D., & Lu, S. (2004). MotionRender: A simple Python implementation of video motion visualization for 3D motion capture data. *F1000Research*, 13:43. <https://doi.org/10.12688/f1000research.138349.1>

Ballotti, R., & Lu, S. (Accepted pending revision). A longitudinal approach to collecting data: Live classrooms and online surveys. *Sage Research Methods: Cases*.

Jiang, M., & Lu, S. (Accepted pending revision). Standing up for learning? Insights from Cognitive Science for better educational practices? *Journal of Advancing Education Practice*.

Frank, D. J., Lu, S., & Serra, M. (under revision). No strong evidence for differential benefits or metacognitive illusions when matching presentation to leaning styles. *Memory and Cognition*.

Hung-Jui, G., Marusich, L., Bakdash, J., Lu, S., Tague, A., Ballotti, R., Harter, D., Ashtiani, O., & Prabhaskaran, B. (under review). Measuring depth perception for color, luminance, and distance in mixed reality. *IEEE Transactions on Visualizations and Computer Graphics*.

**Lu, S.,** Pierce, D., Harter, D., Rawlinson, T. G. (under revision). Enacting actions in real versus simulated environments. *International Journal of Human-Computer Studies*.

**Lu, S.,** Harter, D., & Wakefield, L. (under revision). The time course of perceiving everyday events: Risks and event boundaries. *Journal of Experimental Psychology: Human Perception and Performance*

**Lu, S.,** Frank, D. J. Ballotti, R. J., Sacaguing, J., & Sabti, S. (under revision). No evidence for photographic impairment in the classroom. *Applied Cognitive Psychology*.

## **Presentations**

### **1. International and National Presentations**

**Lu, S.,** Tague, A. M., Marusich, L, Bakdash, J., & Ballotti, R. J. (2023, May 25-28). The role of fully immersive head mounted display (HMD) in 3D graph comprehension. The 2023 Association for Psychological Science Annual Convention. Washington, DC.  
<https://www.psychologicalscience.org/conventions/2023-aps-annual-convention>

Wang, Y., **Lu, S.,** & Harter, D. (2020). Eye tracking and learning analytics for promoting proactive teaching and learning in classroom: a survey. Virtual presentation at In the 4th International Conference on Education and E-Learning. Tsuru, Japan: Association for Computing Machinery.

Drax et al. (September 2019). MAPS Showcase Event: mapping the analytical paths of a crowdsourced data analysis. <https://osf.io/q7epu/>. Bristol, UK.

**Lu, S.,** Harter, D. (May, 2018). Enacting actions in virtual environments: risk, movement, and controller realism. Poster presented at APS 30<sup>th</sup> Annual Convention, San Francisco, CA.

**Lu, S.,** Harter, D. (September, 2016). Toward a cognitive processing theory of player's experience of computer mediated environments. Poster presented at ACM CHI Play 2016, Austin, TX.

Harter, D., **Lu, S.,** Kosito, P., & Kotturu, P. (2012). How controller embodiment effects task performance in computer simulated training. Paper presented at the 7th International Conference on Human Computer Interaction, Baltimore, MD.

**Lu, S.,** Kosito, P., & Kotturu, P. (November, 2011). The influence of effector on embodiment. Paper presented at the 51st Annual Meeting of the Psychonomic Society, Seattle, WA.

**Lu, S.,** Pierce, D., Rawlinson, T., & Harter, D. (June, 2011). The role of high visual realism in reducing potential risk taking in simulated environments. Paper presented at the World Conference on Innovative Virtual Reality, Milan, Italy.

Harter, D., **Lu, S.,** Kotturu, P., & Pierce, D. (2011). An immersive virtual environment for varying risk and immersion for effective training. Paper presented at the World Conference on Innovative Virtual Reality, Milan, Italy.

Pierce, D., **Lu, S.,** & Harter, D. (May, 2010). Perceiving events in simulated environments: The role of expectation driven processes. Paper presented at the World Conference on Innovative Virtual Reality, Ames, Iowa.

Pierce, D., **Lu, S.,** & Harter, D. (February, 2009). Enacting actions in the simulated environments. Paper presented at the Inaugural World Conference on Innovative Virtual Reality, Chalon-sur-Saône, France.

**Lu, S.,** Wakefield, L., & Weatherford, D. (November, 2008). Taking actor's perspective: Spatial relational mapping or perceptual motor simulation? Paper presented at the 49th Annual Meeting of the Psychonomic Society, Chicago, IL.

**Lu, S.,** Wakefield, L., & Pierce, D. (November, 2007). The role of risk in perceiving and remembering events. Paper presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, CA.

Wakefield, L., & **Lu, S.** (August, 2007). The meaning of before versus after. Poster presented at the 29th Annual Meeting of the Cognitive Science Society, Nashville, TN.

**Lu, S.,** Wakefield, L., & Faulkenberry, T. (November, 2006). The role of beginnings, ends, and overlap in event representations. Paper presented at the 47th Annual Meeting of the Psychonomic Society, Houston, TX.

**Lu, S.,** & Harter, D. (July, 2006). The role of overlap and end state in perceiving and remembering events. Poster presented at the 28th Annual Meeting of the Cognitive Science Society, Vancouver, Canada.

**Lu, S.** (November, 2005). From seeing to remembering events in time. Poster presented at the 46th Annual Meeting of the Psychonomic Society, Toronto, Canada.

**Lu, S.,** & Harter, D. (August, 2005). Representing events using fuzzy temporal boundaries. Poster presented at the 27th Annual Meeting of the Cognitive Science Society, Stresa, Italy.

**Lu, S., & Pierce, D.** (August, 2005). Perceiving and describing event temporal dynamics. Poster presented at the 27th Annual Meeting of the Cognitive Science Society, Stresa, Italy.

**Lu, S., Wallace, J., Graesser, A. C., & Gholson, B.** (November, 2004). An eye tracking study of describing event temporal relations. Poster presented at the 45th Annual Meeting of the Psychonomic Society, Minneapolis, MI.

**Lu, S., & Graesser, A. C.** (August, 2004). What is universal in perceiving, remembering, and describing event temporal relations? Poster presented at the 26th Annual Meeting of the Cognitive Science Society, Chicago, IL.

**Lu, S., Graesser, A. C., & Wolff, P.** (November, 2003). Perceptions and conceptions of time. Poster presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, Canada.

**Lu, S., & Graesser, A. C.** (November, 2003). Tutorial dialog in natural language with an animated conversational agent. Paper presented at the 33rd Annual Meeting of the Society for Computers in Psychology, Vancouver, Canada.

**Graesser, A. C., & Lu, S.** (November, 2003). Texts, pictures, labels, versus arrows in the comprehension of illustrated texts. Paper presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, Canada.

**Graesser, A. C., & Lu, S.** (April, 2003). Eye tracking while learning from an intelligent tutoring system with an animated pedagogical agent. Paper presented at the 84th Annual Meeting of the American Educational Research Association, Chicago, IL.

**Graesser, A. C., Olde, B., & Lu, S.** (November, 2001). Good comprehenders focus on faults when everyday devices break down. Paper presented at the 42nd Annual Meeting of the Psychonomic Society, Orlando, FL.

**Lu, S.** (August, 2001). Inference construction and metacognitive control in foreign language reading. Paper presented at the 3rd International Conference on Cognitive Science, Beijing, China.

**Lu, S., & Graesser, A. C.** (August, 2001). Does an illustration help to comprehend scientific texts? Poster presented at the 3rd International Conference on Cognitive Science, Beijing, China.

**Lu, S., Olde, B., Cooper, E., & Graesser, A. C.** (August, 2001). Individual differences in reasoning about broken devices: An eye tracking study. Poster presented at the 23rd Annual Meeting of the Cognitive Science Society, Edinburgh, UK.

**Lu, S.**, Olde, B., & Graesser, A. C. (June, 2001). Eye guidance in reasoning about broken devices. Paper presented at the American Psychological Society, Toronto, Canada.

Graesser, A. C., Olde, B., & **Lu, S.** (April, 2001). Eye tracking while reading illustrated texts about everyday devices. Symposium conducted at the 82nd Annual Meeting of the American Educational Research Association, Seattle, WA.

Graesser, A. C., **Lu, S.**, Whitten, S. (July, 2000). Inferences about causal mechanisms that are depicted in illustrated texts on everyday devices. Paper presented at the 27th International Congress of Psychology, Stockholm, Sweden.

Graesser, A. C., **Lu, S.**, Whitten, S., Olde, B., Pomeroy, V., & Craig, S. (July, 2000). Deep and shallow comprehension of illustrated texts on everyday devices. Paper presented at the 7th Annual Meeting of the Society for the Scientific Study of Reading, Stockholm, Sweden.

Whitten, S., **Lu, S.**, Graesser, A. C. (July, 2000). What determines deep comprehension for illustrated texts? Paper presented at the 10th Annual Meeting of the Society for Text and Discourse, Lyon, France.

## 2. Regional Presentations

Craig, E., Dwiggin, M., Krueger, L.E., & Lu, S. (2024) Does smartphone dependence and FOMO impact students' learning when they are separated from their phones? Poster to be presented at the Armadillo Southwest Cognition Conference, Texas A & M University, College Station, TX.

Tague, A. M., Geuss, M., Simpson, M., Bakdash, J., Marusich, L., Moore, S., Ballotti, R.J., & Lu.S. (2022). 3D graph comprehension in virtual reality: Stereoscopy or immersion? Paper presented at the Armadillo Southwest Cognition Conference, Texas A & M Tarleton, Stephenville, TX.

Mathieu, K., & Lu, S. (2021). The Role of Instructional Representation in Learning Chemical Diagrams. Poster presented at Armadillo Southwest Cognition Conference. Commerce, TX.

Lu, S., Rawlinson, T., & Harter, D. (2015). The role of working memory in experiencing presence in virtual environments. Paper presented at the Southwest Cognition Conference, Baylor University, Waco, TX.

Wright, N., & Lu, S. (2015). An investigation of doodling, learning comprehension, and working memory capacity. Poster presented at the Southwest Cognition Conference, Baylor University, Waco, TX.



Lu, S., Kosito, P., Harter, D., & Kotturu, P. (September, 2011). How do effector and visual realism influence the perceptual grounding of actions? Paper presented at the Annual Meeting for Association for Research in Memory, Attention, Decision-making, Imagery, Language, Learning & Organized Perception, Commerce, TX.

Kotha, S., Guduru, S., Kotturu, P., Harter, D., Lu, S., & Henley, T. (March, 2010). Perceiving and enacting risky events in simulated environments. Poster presented at the Federation of North Texas Area Universities Research Symposium, Denton, Texas.

Rawlinson, T. G., Lu, S., & Henley, T. B. (March, 2010). Risk in simulated environments: The role of working memory capacity. Poster presented at the 56<sup>th</sup> Southwestern Psychological Association Annual Meeting, Dallas, TX.

Rawlinson, T. G., Lu, S., Coleman, P., & Henley, T. (March, 2010) Actions in simulated environments: The role of perspective and memory. Poster presented at the 56<sup>th</sup> Southeastern Psychological Association Annual Meeting, Chattanooga, TN.

Pierce, D. (March, 2010). Perceiving emotions of virtual characters. Paper presented at the 56<sup>th</sup> Southwestern Psychological Association Annual Meeting. (Graduate Student Research Award) (Faculty mentor)

Wakefield, L., & Lu, S. (April, 2007). Representing everyday actions. Paper presented at the 53rd Southwestern Psychological Association Annual Meeting, Fort Worth, TX.

Pierce, D., & Lu, S. (April, 2007). Remembering action words and action objects. Poster presented at the 53rd Southwestern Psychological Association Annual Meeting, Fort Worth, TX.

Lu, S., & Harter, D. (March, 2005). A recurrent neural network model of event temporal representations. Poster presented at the 51st Southwestern Psychological Association Annual Meeting, Memphis, TN.

### 3. State and Local Presentations

Weatherford, D. (2009). Does language guiding visual attention in perceiving events? Paper presented at the Annual Texas A & M University – Commerce Research Symposium. (Second Place for Graduate Research) (Faculty mentor)

Samuels, C., & Pierce, D. (2008). Perceiving actions in natural versus simulated environments. Poster presented at the TAMU Pathway Symposium, Commerce, Texas. (Faculty mentor).

Haisler, L., & Ingram, B. (2007). Photography and the indexing of temporal frames for memorable life events. Poster presented at the TAMU Pathway Symposium, Tarleton, Texas. (Faculty mentor).

Morott, S., Rawlinson, T. G., & Lu, S. (2006). Can emotion influence thoughts on time? Paper presented at the Fourth Annual Psychology Convention at University of Texas at Arlington, Arlington, Texas.

Wakefield, L., & Rawlinson, T. G., & Lu, S. (2006). How do we know we are sad but not angry? Paper presented at the Fourth Annual Psychology Convention at University of Texas at Arlington, Arlington, Texas.

#### 4. Other Talks

Lu, S. (July, 2013). Authentic training contexts: risk, kinematic and effector realism in perceiving and enacting action. Invited talk at Consortium of Professional Game and Simulation, University of Wisconsin-Madison, WI.

Lu, S., & Harter, D. (October, 2011). The perceptual grounding of actions in virtual environments. Invited talk presented at Department of Psychology, University of Utah, Salt Lake City.

Harter, D., & Lu, S. (July, 2011). A bottom up approach to investigating embodiment in virtual environments. Invited talk presented at the Experimental Virtual Environments for Neuroscience and Technology Research Group, University of Barcelona, Spain.

Lu, S. (2009). Embodiment in complex system: Perceiving and enacting actions in virtual environments. Invited talk at the Physics, Mathematics Colloquiums, Texas A & M University – Commerce.

Lu, S. (2008). Panelist for the Texas A & M University System junior faculty pathway: Survival skills for junior faculty.

Lu, S. (2007). Perceiving and remembering complex events. Talk at the Cognitive Psychology Group, Washington University.

#### References

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