

# Yisi Sang

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🔗 <https://yisisang.github.io>

## RESEARCH INTERESTS

Human-Centered Natural Language Processing, Human-Computer Interaction, Psychometrics

## EDUCATION

2018-2022 (Anticipated)	<b>Ph.D. in Information Science and Technology</b> Syracuse University, NY Dissertation: Benchmarking and Modeling of Machines' Character Understanding in Stories Advisor: Jeffrey Stanton Committee: Daniel Acuña, Bei Yu, Mo Yu
2016- 2018	<b>M.S. in Teaching &amp; Curriculum, School of Education</b> Syracuse University, NY
2011- 2015	<b>B.A. in German, Minor in Psychology</b> Northwestern Polytechnical University, Shaan Xi

## PROFESSIONAL EXPERIENCE

2022 -	<b>Northeastern University</b> , Part-time Teaching Professor Teaching course ITC6410 Fundamentals of Human Behaviors for Interactive Systems
2022 summer	<b>Fidelity Investments</b> , Data Scientist Intern Evaluating the bias problem of NLP models applied in finance
2022 -	<b>Natural Language Generation, Evaluation, and Metrics (GEM)</b> Designing human evaluations and crowdsourcing annotation interfaces for machine-generated summarizations
2020 -	<b>Syracuse University</b> , Graduate Assistant Hate speech annotation [C3] Designing benchmark tasks for machine reading comprehension [C6-C9] Analyzing and creating statistical representation of corpora [J2]
2018-2020	<b>Syracuse University</b> , Research Assistant User study of malicious selling strategies in livestream shopping [J3] Knowledge sharing analysis in online communities [J1, C1]

## PUBLICATIONS

### Peer-reviewed Conference and Journal Publications

\* C denotes conference, J denotes Journal, and S represents workshops

- 2022      C9 **Sang, Y.**, Mou, X., Yu, M., Li, J., D, Wang, & Stanton, J., (2022) Machine Narrative Comprehension in Fictional Characters Personality Prediction Tasks. in press *NAACL SRW 2022*
- C8 **Sang, Y.**, Mou, X., Yu, M., Li, J., & Stanton, J., (2022) A Survey of Machine Narrative Reading Comprehension Assessments. in press *IJCAI 2022*
- C7 **Sang, Y.**, Mou, X., Yu, M., Li, J., & Stanton, J., (2022) TVSHOWGUESS: Character Comprehension in Stories as Speaker Guessing. in press *NAACL 2022*
- C6 Xu, Y., et al. (2022). Fantastic Questions and Where to Find Them: FairytaleQA – An Authentic Dataset for Narrative Comprehension. in press *ACL 2022*
- C5 **Sang, Y.**, & Stanton, J. (2022). The Origin and Value of Disagreement Among Data Labelers: A Case Study of Individual Differences in Hate Speech Annotation. In *International Conference on Information (pp. 425-444)*. Springer, Cham.
- 2021      C4 **Sang, Y.**, Liang, L. & Stanton, J. (2021). Content Moderation of Speech in Political Discussions. *Proceedings of the Association for Information Science and Technology*
- 2020      C3 **Sang, Y.**, & Stanton, J. (2020). Analyzing Hate Speech with Incel-Hunters' Critiques. In *International Conference on Social Media and Society* (pp. 5-13).
- 2019      C2 Huang, Y., **Sang, Y.**, Wu, Q., & Yao, Y. (2019). Higher Education Check-Ins: Exploring the User Experience of Hybrid Location Sensing. In *Proceedings of the ACM on Human-Computer Interaction (CSCW)*.
- J1 Wu, Q., **Sang, Y.**, & Huang, Y. (2019). Danmaku: A New Paradigm of Social Interaction via Online Videos. *ACM Transactions on Social Computing*, 2(2), 7.
- 2018      C1 Wu, Q., **Sang, Y.**, Zhang, Shan, & Huang, Y. (2018). Danmaku vs. Forum Comments: Understanding User Participation and Knowledge Sharing in Online Videos. In *Proceedings of the 2018 ACM Conference on Supporting Groupwork*

### Workshop Papers, Posters & Demos

- 2022 S3 Stanton, J., **Sang, Y.** & Ramnarine-Rieks, A. (2022). Automated Analysis of Item Content: Influences on the Quality of Self Report Scales. *Accepted by the Society for Industrial and Organizational Psychology (SIOP) annual meeting 2022.*
- 2019 S2 Huang, Y., **Sang, Y.**, Wu, Q., & Yao, Y. (2019). Studying User Experience of a Hybrid Location Sensing System. *In Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems.*
- 2019 S1 **Sang, Y.**, Huang, Y. (2019). Understanding Digital Wellbeing Systems through the Lens of the Theory of Planned Behavior (TPB). *In Proceedings of ACM CHI conference*

#### **Paper in Submission**

- 2022 C10 **Sang, Y.**, Yu, M., Pu, K., Wei, Z., Li, Wang, H., J., Yu, Y. & Stanton, J., MovieGuess: An Assessment to Meta-Learning of Fictional Characters' Theory-of-Mind *Submitted to NeurIPS22*
- 2021 J3 Wu, Q., **Sang, Y.**, Wang, D., & Lu, Z. (2021). Malicious Selling Strategies in Livestream Shopping: A Cast Study of Alibaba's Taobao and ByteDance's Douyin. *Submitted to TOCHI*
- 2021 J2 Stanton, J., & **Sang, Y.** Assessing Topical Homogeneity with Word Embedding. *Submitted to Journal of Knowledge Management*

#### **SERVICE**

- 2021 Reviewer, NAACL
- 2020 Reviewer, International Conference on Information Systems (ICIS)  
Reviewer, CHI Late Breaking
- 2019 Student Volunteer, CSCW  
Reviewer, Designing Interactive Systems (DIS)  
Reviewer, CHI Late Breaking  
Reviewer, iConference

#### **TEACHING**

- 2022 **ITC6410 Fundamentals of Human Behaviors for Interactive**  
*Lecturer, Northeastern University*
- 2021 **IST736 Text Mining**  
*Guest Lecturer, Syracuse University*
- 2020 **IST687 Introduction to Data Science**  
*Teaching Assistant, Syracuse University*
- 2019 **IST649 Human Interactions W/Computers**

2017	Teaching Assistant, Syracuse University <b>EDU647 Statistical Thinking &amp; Application</b>
2015	Teaching Associate, Syracuse University <b>Mental Health Management</b>
	Instructor, Beijing Institute of Technology, School of Continuing Education

## CERTIFICATE

**Psychometrics** WISC-IV Chinese Version Administrator (Intelligence Assessment)  
 ABAS-II Chinese Version Administrator (Behavior Assessment)  
 Autism Diagnostic Observation Schedule (ADOS-2))

## SKILLS

**Programming Language:** Python, R, SQL  
**Tools:** Pytorch, Scikit-Learn, Git  
**Statistics:** Regression Analysis, Structural Equation Modeling (SEM), Factor Analysis (FA) including Path Analysis, Exploratory (EFA) and Confirmatory Factor Analysis (CFA)

## GRANTS

2022	Student Travel Grant NAACL 2022, \$700
2021	CUSE Grant, Syracuse University, \$27,937
2019	Award winning proposal of CCDS seed funding, \$2,000