

Hongmin Li

CONTACT INFORMATION

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EDUCATION

Kansas State University, Manhattan, Kansas, USA

Ph.D., Computer Science, Dec 2020

- Dissertation Topic: “Domain adaptation approaches for classifying social media crisis data”
- Advisor: Dr.Doina Caragea

Nanjing University of Posts & Telecommunications, Nanjing, Jiangsu, China

M.A., Management Science & Engineering, Apr 2010

Nanjing University of Posts & Telecommunications, Nanjing, Jiangsu, China

B.A., Electronic Commerce, Jul 2007

WORK AND ACADEMIC EXPERIENCE

Assisant Professor

Aug 2021 - present

Department of Computer Science, California State University, East Bay

- Research interests: Machine Learning/Deep Learning for emergency management; Machine Learning and Domain Adaptation Approaches for Classifying Crisis Related Data on Social Media.

NLP Engineer

Mar 2021 - Jul 2021

HRI team, UBTech Robotics, Pasadena, CA

- Project: Chinese dialog system. Worked on Natural Language Understand tasks (intent classifications and slot filling) for Chinese using tools from Spacy, Rasa, to BERT multi-task model; Developed the prototype of Chinese dialog system based on the English one.

Graduate Research Assistant

Jan, 2018 - Dec 2020

Department of Computer Science, Kansas State University

- Projects: Domain adaptation approaches for social media data analysis; Machine Learning in Detecting Malicious Android Apps & Side-channel Analysis.

Graduate Teaching Assistant

Sep, 2014 - Dec 2017

Department of Computer Science, Kansas State University

Teaching assistant for both undergraduate and graduate courses including:

- Courses: Analysis of Algorithms, Software Engineering, Formal Language Theory, Computer and Information Security, Advanced Software Analysis and Design.

Web Developer

Nov 2013 - Jul 2014

Hale Library, Kansas State University

- Project: Website prototype for a dynamic curricular project New Literature Alliance; Skills involved: PHP, MySQL, LTI protocol, Softchalk Cloud where the courses were stored on.

Software Engineer

Apr 2010 - Mar 2013

Information Center, China Post, Zhengzhou

- Project: Worked on ASP.NET web applications with SQL Server to support business departments; Duties included a year rotation in several business departments.

Graduate Research Assistant

Aug, 2007 - Apr 2010

Nanjing University of Posts & Telecommunications, Nanjing, Jiangsu, China

- Project: Emergency management platform for Jiangsu province.

Instructor

Sep, 2008 - Dec 2008

College of Continued Education, Nanjing University of Aeronautics and Astronautics, China

- Taught *Introduction to E-Commerce* for one semester

TEACHING

CS 311: Programming Language Concepts (Fall 2021, Fall 2022, Spring 2023)
 CS 413: Analysis of Algorithms (Fall 2021 - Fall 2024)
 CS 468: Introduction to Natural Language Processing with Deep Learning (Spring 2025)
 CS 490: Independent Study (Fall 2024)
 CS 497: Introduction to Deep Learning (Spring 2022, Fall 2022)
 CS 601: Advanced Algorithms (Fall 2023, Spring and Fall 2024, Spring 2025)
 CS 611: Theory of Computation (Fall 2021-Spring 2022, Spring 2023, Fall 2023 - Spring 2024, Fall 2024-Spring 2025)
 CS 693: Capstone Project (Spring 2023, Fall 2024)
 CS 690 Independent Study (Fall 2023)
 CS 692 Capstone Exam (Spring 2024, Fall 2024, Spring 2025)

UNIVERSITY SERVICES

Academic Senator (Fall 2023- Spring 2025 two years term)
 Women in Leadership Forum 2024 Ideathon co-coordinator
 Member, CS Department Tenure Track Faculty Search Committee (Fall 2024-Spring 2025)
 Chair, CS Department Outreach Committee (Fall 2024-Spring 2025, Fall 2022- Spring 2023)
 Member, CS Department Outreach Committee (2023-2024)
 Member, CS Department Undergraduate Committee (Fall 2023-Spring 2024, Fall 2021-Spring 2022)
 Member, CSCI College Data Science Task Force (Fall 2022-Spring 2023)
 Member, CSCI College Scholarships and Awards Committee (Fall 2021-Spring 2022)
 Member, University Faculty Diversity Contributor (Summer 2022)

GRANTS

A2E2 funds for Fall 2024-Spring 2025
 Student Scholars (for three students), Fall 2024-Spring 2025
 Teach Access Grants (from Teach Access), Fall 2024-Spring 2025
 Collaborative Research Awards (from CSCI College), Fall 2023-Spring 2024
 A2E2 funds 2021 and 2022 for setting up Deep Learning Lab and teaching Deep Learning

PROFESSIONAL DEVELOPMENTS

College of Science DEI Conversation Series - 2024 (Spring 2024)
 CSCI College Transforming STEM Teaching Faculty (Spring 2023-Fall2023, 7th iteration of this program)

PROFESSIONAL ACTIVITIES

Served NSF on a review panel in Spring 2024
 Served NSF on a review panel in Fall 2024
 Track Chair, Social media track of 2025 ISCRAM conference
 Track Chair, Social media track of 2024 ISCRAM conference
 Program committee and Reviewer for 2020-2023 ISCRAM conferences
 Reviewer for Scientific Reports Journal
 Program committee and Reviewer for 2023 EACL Student Research Workshop
 Reviewer for Journal of Business Analytics
 Reviewer for IEEE Access (2021/2022/2023)
 Reviewer for IJISCRAM journal (2018)

PUBLICATIONS

- Sharma, A., Guo, D., Parmar, A., Ge, J., & **Li, H.** (2024, July). Promoting Sign Language Awareness: A Deep Learning Web Application for Sign Language Recognition. In Proceedings of the 2024 8th International Conference on Deep Learning Technologies (ICDLT) (pp. 22-28).
- Wang X., Muenzler M., King J., Liu M., **Li H.**, Budowle B., & Ge, J (2024). A complete pipeline enables haplotyping and phasing macrohaplotype in long sequencing reads for polyploidy samples and a multi-source DNA mixture. *Electrophoresis*. 2024; 1–8. <https://doi.org/10.1002/elps.202300143>
- Li, H.**, Caragea, D., Mhatre, A., Ge, J., & Liu, M (2023). Identifying COVID-19 Tweets Relevant to Low-Income Households Using Semi-supervised BERT and Zero-shot ChatGPT Models. In Proceedings of the 20th International Conference on Information Systems for Crisis Response and Management (ISCRAM2023), Omaha, Nebraska, USA May 2023.
- Huang, M., Liu, M., **Li, H.**, King, J., Smuts, A., Budowle, B., & Ge, J (2022). A machine learning approach for missing persons cases with high genotyping errors. *Frontiers in Genetics*, 13, 2821. <https://doi.org/10.3389/fgene.2022.971242>.
- Li, H.**, Caragea, D., Caragea, C.(2021). Combining Self-training with Deep Learning for Disaster Tweet Classification. In Proceedings of the 18th International Conference on Information Systems for Crisis Response and Management (ISCRAM2021), Blacksburg, VA, USA.
- Mazloom, R., **Li, H.**, Caragea, D., Caragea, C., & Imran, M. (2019). A Hybrid Domain Adaptation Approach for Identifying Crisis-Relevant Tweets. *International Journal of Information Systems for Crisis Response and Management (IJISCRAM)*, 11(2), 1-19.
- Yang, B., Gao, Y., **Li, H.**, Ye, S., He, H., & Xie, S. (2019). Rapid prediction of yellow tea free amino acids with hyperspectral images. *PloS one*, 14(2), e0210084.
- Li, H.**, Sopova, O., Caragea, D., & Caragea, C. (2018). Domain Adaptation for Crisis Data Using Correlation Alignment and Self-Training. *International Journal of Information Systems for Crisis Response and Management (IJISCRAM)*, 10(4), 1-20.
- Li, H.**, Caragea, D., Li, X., & Caragea, C. (2018). Comparison of Word Embeddings and Sentence Encodings as Generalized Representations for Crisis Tweet Classification Tasks. en. In: Proceedings of the ISCRAM Asian Pacific 2018 Conference – Wellington, New Zealand, November 2018.
- Mazloom, R., **Li, H.**, Caragea, D., Imran, M., & Caragea, C. (2018). Classification of Twitter Disaster Data Using a Hybrid Feature-Instance Adaptation Approach. In: Proc. of the 15th Int. Conference on Information Systems for Crisis Response and Management (ISCRAM 2018), Rochester, NY, 2018.
- Li H.**, Caragea, D., & Caragea, C. (2017). Towards Practical Usage of a Domain Adaptation Algorithm in the First Hours of a Disaster. In: Proceedings of the 14th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2017), France.
- Li H.**, Caragea D., Caragea C., Herndon N.(2017). Disaster response aided by tweet classification with a domain adaptation approach. *Journal Contingencies and Crisis Management*. 2017;00:1-12.
- Li H.**, Guevara, N., Herndon, N., Caragea, D., Neppalli, K., Caragea, C., Squicciarini, A., & Tapia, A. (2015). Twitter Mining for Disaster Response: A Domain Adaptation Approach. In Proceedings of the 12th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2015), Kristiansand, Norway.
- Roy S., DeLoach J., Li Y., Herndon N., Caragea D., Ou X., Ranganath V., **Li H.**, & Guevara

N.(2015). Experimental study with real-world data for Android app security analysis using machine learning. 31st Annual Computer Security Applications Conference (ACSAC15), Los Angeles, California, USA.

Liu H., **Li H.**, & Vasserman E.(2015). Practicality of using side-channel analysis for software integrity checking of embedded systems. In Proceedings of the EAI International Conference on Security and Privacy in Communication Networks (SecureComm).