Hongmin Li

CONTACT
INFORMATION

CSU East Bay,
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Hayward, CA, 94542   *Email:* hongmin.li@csueastbay.edu

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 - Spring 2024)
CS 497: Introduction to Deep Learning (Spring 2022, Fall 2022)
CS 601: Advanced Algorithms (Fall 2023, Spring 2024)
CS 611: Theory of Computation (Fall 2021, Spring 2022, Spring 2023, Fall 2023, Spring 2024)
CS 693: Capstone Project (Spring 2023)
CS 692 Capstone Exam (Spring 2024)

UNIVERSITY SERVICES
Acadamic Senator (Starting Fall 2023)
Member, CS Department Undergraduate Committee (2022-2023, 2021-2022 academic year)
Member, CS Department Outreach Committee (Spring 2023, Fall 2023)
Chair, CS Department Outreach Committee (Fall 2022)
Member, CSCI College Data Science Task Force (Fall 2022-Spring 2023)
Member, CSCI College Scholarships and Awards Committee (2021-2022 academic year)
Member, University Faculty Diversity Contributor (Summer 2022)

GRANTS
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 ACTIVITIES
Track Chair, Social media track of 2024 ISCRAM conference
Social media track program committee and Reviewer for 2020-2023 ISCRAM conferences
Reviewer for Scientific Reports Journal
2023 EACL Student Research Workshop Reviewer
Reviewer for IEEE Access (2021/2022/2023)
Reviewer for IJISCRAM journal (2018)

PUBLICATIONS
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).