

## Lu He

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CONTACT INFORMATION	Donald Bren Hall 6136 Department of Informatics University of California, Irvine Irvine, CA 92697	949-572-7351 <a href="mailto:lhe11@uci.edu">lhe11@uci.edu</a> <a href="http://www.luheholly.com">www.luheholly.com</a>
RESEARCH INTERESTS	Natural language processing, human-computer interaction, machine learning, health informatics, social network analysis, social media mining	
EDUCATION	<b>University of California, Irvine</b> , Irvine, CA  Ph.D., Informatics, 2017.9-present  <b>University of Minnesota</b> , Minneapolis, MN  B.S. with distinction, Computer Science, 2013.9-2017.5	
EXPERIENCE	<b>Graduate Research Assistant</b> Sept 2017 to Present <a href="#">Department of Informatics, University of California, Irvine</a> Supervisor: Kai Zheng, Ph.D. Project: Evaluate and improve current computational tools to analyze healthcare related social media data.  <b>Bioinformatics Programmer</b> June 2018 to Sept 2018 <a href="#">Bakar Computational Health Sciences Institute</a> Supervisor: Gundolf Schenk, Ph.D. Project: Improved the performance of a de-identification tool for detecting and replacing Protected Health Information in 60 million clinical notes.  <b>Undergraduate Research Assistant</b> Sept 2016 to May 2017 <a href="#">Institute for Health Informatics, UMN</a> Supervisor: Chih-Lin Chi, Ph.D. Project: Developed decision tree models for personalized warfarin treatments.  <b>Undergraduate Research Assistant</b> Sept 2016 to May 2017 <a href="#">Department of Computer Science, UMN</a> Supervisor: Svetlana Yarosh, Ph.D. Project: Performed sentiment analysis on journals from an online health community.  <b>Undergraduate Research Assistant</b> June 2016 to Sept 2016 <a href="#">Institute for Health Informatics, UMN</a> Supervisor: Rui Zhang, Ph.D. Project: Developed rule-based and machine learning models to extract supplement use status in clinical notes.	

## Undergraduate Fellow

June 2016 to Aug 2016

Minnesota Population Center

Supervisors: Kevin Horne and Jayandra Pokharel

Project: Converted Integrated Public Use Microdata Series (IPUMS) from MySQL to PostgreSQL.

## ACCEPTED PAPERS

1. **He L**, Zheng K. How do general-purpose sentiment analyzers perform when applied to health-related online social media data? In: Proceedings of the 2019 World Congress on Health and Biomedical Informatics (MEDINFO 19). 2019. (forthcoming)
2. Shehada ER, **He L**, Eikey EV, Jen M, Wong A, Young S, Zheng K. Characterizing frequent flyers of an emergency department using cluster analysis. In: Proceedings of the 2019 World Congress on Health and Biomedical Informatics (MEDINFO 19). 2019. (forthcoming)
3. Y. Fan, **L. He**, S. Pakhomov, G. Melton, R. Zhang. Classifying Supplement Use Status in Clinical Notes. 2017 American Medical Informatics Association Joint Summits (AMIA). **CRI Student Paper Competition 2nd Place** [PubMed](#)
4. C. Chi, **L. He**, K. Ravvaz, J. Weissert, P. Tonellato. Optimized Decision Support Rules of Precision Warfarin Treatment. Pacific Symposium on Biocomputing 2018. [PubMed](#)
5. H. Ma, C. E. Smith, **L. He**, S. Narayanan, R. A. Giaquinto, R. Evans, L. Hanson, and S. Yarosh. Write for Life: Persisting in Online Health Communities through Expressive Writing and Social Support. In Proc. of Computer-Supported Cooperative Work (CSCW) 2018 Online First. [ACM](#)

## TEACHING

### Graduate Teaching Assistant

Sept 2018 to present

IN4MTX 151 - Project Management

Department of Informatics

University of California, Irvine

### Undergraduate Teaching Assistant

Sept 2016 to May 2017

CSci 1913 - Introduction to Algorithms and Data Structures

Department of Computer Science

University of Minnesota

## SCHOLARSHIP AND AWARDS

- CRA-W Grad Cohort Workshop  
Computing Research Association April 2018
- Graduate Dean Recruitment Fellowship  
University of California, Irvine Sept 2017
- Dean's Award  
University of California, Irvine Sept 2017

	<ul style="list-style-type: none"> <li>• Maroon Global Excellence Scholarship                      Sept 2013 to May 2017 University of Minnesota</li> </ul>
TECHNICAL SKILLS	<ul style="list-style-type: none"> <li>• Programming Languages: Python, C/C++, Java, Matlab, R, Clojure, Javascript, SQL</li> <li>• Data Analysis: Sentiment analysis, topic modeling, survival analysis, cluster analysis, social network analysis</li> <li>• Libraries and Frameworks: SciPy, SpaCy, NLTK, gensim, NumPy, Pandas, scikit-learn</li> <li>• Tools: Git, AWS, Jupyter</li> </ul>
SERIVES	<ul style="list-style-type: none"> <li>• Reviewer: AMIA 2018-2019</li> </ul>
TALKS AND PRESENTATIONS	<ul style="list-style-type: none"> <li>• “Characterizing Frequent Users of Emergency Department Using Cluster Analysis”, Medical Intelligence and Innovation Institute (MI3), Childrens Hospital of Orange County (CHOC), Orange, CA, April 8, 2019</li> </ul>