Lu He

Contact Information	Donald Bren Hall 6136 Department of Informatics University of California, Irvine Irvine, CA 92697	949-572-7351 lhe11@uci.edu www.luheholly.com

Research Interests

Natural language processing, human-computer interaction, machine learning, health informatics, social network analysis, social media mining

Education

University of California, Irvine, Irvine, CA

Ph.D., Informatics, 2017.9-present

University of Minnesota, Minneapolis, MN

B.S. with distinction, Computer Science, 2013.9-2017.5

Experience

Bioinformatics Programmer — June 2018 to Sept 2018
Bakar Computational Health Sciences Institute
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.

Undergraduate Research Assistant — Sept 2016 to May 2017
Institute for Health Informatics, UMN
Supervisor: Chih-Lin Chi, Ph.D
Project: Developed decision tree models for personalized warfarin treatments.

Undergraduate Research Assistant — Sept 2016 to May 2017
Department of Computer Science, UMN
Supervisor: Svetlana Yarosh, Ph.D
Project: Performed sentiment analysis on journals from an online health community.

Undergraduate Research Assistant — June 2016 to Sept 2016
Institute for Health Informatics, UMN
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. 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** PubMed

2. C. Chi, **L. He**, K. Ravvaz, J. Weissert, P. Tonellato. Optimized Decision Support Rules of Precision Warfarin Treatment. Pacific Symposium on Biocomputing 2018. PubMed

3. 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   April 2018
  Computing Research Association

- Graduate Dean Recruitment Fellowship   Sept 2017
  University of California, Irvine

- Dean's Award   Sept 2017
  University of California, Irvine

- Maroon Global Excellence Scholarship   Sept 2013 to May 2017
  University of Minnesota

TECHNICAL
SKILLS

- Programming Languages: Python, C/C++, Java, Matlab, R, Lisp, Clojure, Javascript, Ruby, PHP, SQL
- Data Analysis: Sentiment analysis, topic modeling, survival analysis, cluster analysis, social network analysis
- Libraries and Frameworks: SciPy, TensorFlow, SpaCy, NLTK, gensim, NumPy, Pandas, scikit-learn
- Tools: Git, AWS, Jupyter

SERIVES

- Reviewer: AMIA 2018, MedInfo 2019