

ZEYNEP HAKGUDER

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EDUCATION

University of Nebraska-Lincoln

August 2017 - May 2020 (Expected)

PhD in Computer Science

Related Courses	<i>Deep Learning</i>	<i>Machine Learning</i>	<i>Probability</i>
	Pattern Recognition Seminar in Deep Learning	Introduction to Machine Learning Computational Intelligence Algorithms for Large Scale Data	Probability Theory Statistical Methods Multivariate Statistics

EXPERIENCE

Teaching Assistant, Head/Sole

Fall 2017 —

Design and Analysis of Algorithms, Introduction to Machine Learning, Data Structures and Algorithms, Introduction to Python Programming

Research Assistant

January 2017-May 2018

SBBI Lab, Department of Computer Science and Engineering

PROJECTS

Research Projects

Computer Vision: Develop and implement deep methods for computational jigsaw puzzle solving. Decreased search space using approximate similarity search.

Python, OpenCV, Tensorflow, Docker, TDD

Biological molecule target prediction: Predicted interactions between biological molecules with Gaussian Mixture Models using **Scikit-Learn & Pandas**. Simulations were performed on a **distributed computing** setting (OSG) and **Docker**. Built my own workflow using **Makefile, sed, AWK**.

Side Projects

Location-based job search app

React Native, Redux, Expo, REST, Firebase, Google Cloud Functions

ToDo List and games (Pong, Simon, Game of Life, Matching Game)

React, Redux, Node, Express, MongoDB, REST

ACHIEVEMENTS, SERVICE & LEADERSHIP

Head Teaching Assistant, *Design and Analysis of Algorithms*

August 2018 —

4 peer-reviewed articles in journals and conferences (including in NeurIPS, IEEE)

Paper presentation @IEEE BIBM, *Kansas City, MO*

2017

Subreviewer, IJCAI

2018 —

Workshop Co-organizer, IRLB@IEEE BIBM, *San Diego, CA*

Nov 18-21 2019

Workshop Co-organizer, Support Vector Machines, UNMC, *Omaha, NE*

2019

Graduate student representative, Faculty Committee

Aug 2017-Aug 2018

Graduate student representative, Computer Science Program Committee

Aug 2019 —