# ZEYNEP HAKGUDER

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## EDUCATION

**University of Nebraska-Lincoln**     August 2017 - May 2020 (Expected)
PhD in Computer Science

| **Related Courses** | *Deep Learning* | *Machine Learning* | *Probability* |
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| | Pattern Recognition | Introduction to Machine Learning | Probability Theory |
| | Seminar in Deep Learning | Computational Intelligence | Statistical Methods |
| | | Algorithms for Large Scale Data | 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

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| Head Teaching Assistant, *Design and Analysis of Algorithms* | *August 2018 —* |
| 3 peer-reviewed articles in journals and conferences, 1 preprint | |
| 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 —* |