# Yuntao **Li**

Second-Year Ph.D. Student

*Nimbus Lab, 1100 T St, Lincoln, NE 68588*

(+1) 308-293-3242 | yli120@huskers.unl.edu


*"Make the change that you want to see in the world."*

## Education

**UNL(University of Nebraska Lincoln)** — *Lincoln, NE, US*

Ph.D. in Computer Science. GPA: 4.00/4.00 — *Aug. 2021 - PRESENT*

- Advisor(s): Dr. Dung Tran, Dr. Marilyn Wolf

**UNK(University of Nebraska Kearney)** — *Kearney, NE, US*

B.S. in Computer Science Comprehensive — *Aug. 2016 - Dec. 2020*

- Honored Graduate with Summa Cum Laude (GPA: 3.9/4.0)

## Experience

**University of Nebraska Lincoln, Nimbus Lab** — *Lincoln, NE, US*

Graduate Research Assistant — *Aug. 2021 - Present*

- Researching on verifying deep neural networks and learning-enabled cyber-physical systems.
- Researching on formal techniques for modeling, recognizing, localizing, and mitigating cyberattacks in autonomous systems built based on robotic operating systems (ROS).

**University of Nebraska Kearney, Cyber Systems Department** — *Kearney, NE, US*

Research Assistant — *Feb. 2021 - Aug. 2021*

- Assisting research for faculty members from Cyber Systems Department in predicting cyber attacks.

**University of Nebraska Kearney, Cyber Systems Department** — *Kearney, NE, US*

Teaching Assistant — *Sep. 2020 - Aug. 2021*

- Teaching labs for CYBR 103 Introduction to Programming Language and CYBR 101 Python for Analytics.
- Providing support for CYBR 330 Algorithms and Data Structure, CYBR 407 Intro Automata/Formal Lang.

## Research

**NNV (Neural Network Verification)** — *Lincoln, NE, US*

Member — *Aug. 2021 - Aug. 2022*

- Developing Matlab toolbox for Neural Network Verification, using reachability methods for analyzing neural networks, particularly focusing on closed-loop controllers in autonomous Cyber-Physical Systems (CPS).

**StarV** — *Lincoln, NE, US*

Member — *Aug. 2021 - Aug. 2022*

- Developing python toolbox for Event-driven Monitoring and Verification Codesign for Distributed Learning-enabled Cyber-Physical Systems with Star Reachability.

**ROS Security Defender** — *Lincoln, NE, US*

Core Member — *Aug. 2022 - Present*

- Developing toolbox for modeling, recognizing, localizing, and mitigating cyberattacks in autonomous systems based on robotic operating systems (ROS).

## Skills

**Programming** Python, C/C++, JAVA, JavaScript, PHP, HTML, Assembly, SQL, Matlab, LaTeX

**System** Windows, Linux, Unix, ROS

**Languages** English, Chinese

# Extracurricular Activity

### MICS 2020 Virtual Programming Competition
*Virtual*

Core Member — *Apr. 2020*

- Won 2nd place Award on the Programming Competition

### Hackathon 2020 Programming Competition
*Omaha, NE, US*

Core Member — *Mar. 2020*

- Gained experience developing and prototyping a project in a short time window.

### Ideation Acceleration Workshop
*Kearney, NE, US*

Member — *Mar. 2019*

- Completed the workshop with the Xpanxion and MagMutual team.
- Created a prototype for a data analysis tool from various social network platforms.

### Cyber Security Club, UNK
*Kearney, NE, US*

Member — *2017 - 2019*

- Gained knowledge in hardware/software hacking.
- Attended 2020 ALCCDC Qualifier for cyber security competition.

### Coder Dojo, UNK
*Kearney, NE, US*

Volunteer — *2017 - 2020*

- Mentoring and introducing coding and robotics to young students from age 8-17 interested in computer programming.