

# YANGYANG LI

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## SELF-INTRODUCTION

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I am intensely interested in classic machine learning and deep learning. I like applying the knowledge on Genomics, Transcriptomics, and I am passionate about exploring the secrets in the process of life.

## EDUCATION

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### University of Minnesota

*Ph.D. in Bioinformatics and Computational Biology*

Minnesota, US

Sep. 2020 – Present

### China Agricultural University (985)

*Master in bioinformatics*

Beijing, CN

Sep. 2018 – June 2020

### Northeast Agricultural University (211)

*Bachelor of Arts in Agronomy*

Harbin, CN

Sep. 2014 – June 2018

## RESEARCH EXPERIENCE

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### Ph.D. in Bioinformatics and Computational Biology

*University of Minnesota*

Sep. 2020 – Present

Minnesota, US

- Develop a tool to detect cryptic exons and apply deep learning to mine the relationship between alternative splicing and cancer.
- Compare the performance of current tools used to detect alternative splicing variants

### Master

*China Agricultural University*

Sep. 2018 – June 2020

Beijing, CN

- Dissection of 1,400 genomic data, extracted from eight maize populations. I adapt the bin map method to construct high-density genetic maps suitable for QTL mapping and detection, which regulate multiple, important agronomical traits.
- Conducting Genome-Wide Association Analysis (GWAS) to determine the association between SNPs and maize ear traits in 450 natural populations.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, HTML/CSS, R

**Deep Learning Frameworks:** Pytorch

**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, VS Code, PyCharm, Vim, Linux

**Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter, Biopython, ...

## CERTIFICATIONS AND MOOCs

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- Machine Learning
- Deep Learning

## GRANTS AND HONORS

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- Second Prize of Academic Scholarship (2019)
- Agricultural Scholarship (2016)
- Encouragement Scholarship (2014)

## CONFERENCE TALK

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- The 7th Mathematical, Computer and Life Sciences Interdisciplinary Young Scholars Forum