

# Xin Yifei

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Birthday: 1997/12  
Objective: Computing and Software

## EDUCATION

### Beijing University of Posts and Telecommunications

Sep 2016 - Jun 2020

B.Eng in Telecommunications Engineering

Beijing

- GPA: 3.3 / 4.0
- Current Courses:
  - Telecoms and Signals Fundamentals : 96 / 100      Advanced Network Programming : 91 / 100
  - Digital Circuit and Logic Design : 95 / 100      Principles of Communications : 87 / 100

## RESEARCH EXPERIENCE

### Waterbirds and Habitats Database of China's Coasts Project

Dec 2018 - Present

- The Paulson Institute and Institute of Geographic Sciences and Natural Resources Research of the Chinese Academy of Sciences establish Waterbirds and Habitats Database of China's Coasts Project, which technically cooperate and share data with e-Bird project from Lab of Ornithology, Cornell University.
  - Designed a high-performance B-CNN network model for fine-grained visual bird recognition. Compare to the original Paper, the recognition accuracy for specific data increased by four percentage points.
  - Developed a mini-app on mobile phone in order to photo a bird and return the classification result real-time.

### Priority-based Trajectory Planning for UAV-sensor Time-sensitive network

Jul 2019 - Sep 2019

- An ECE paper on a priority-oriented trajectory planning for a UAV-aided time-sensitive heterogeneous wireless sensor network. Submitted to Annual American Control Conference (ACC), Under Minor Revision. As the second author.
  - Built extensive simulations which are carried out for evaluating the performance of the whole system.
  - Designed a Reinforcement learning algorithms with DQN.

### OSS project : Financial Sentiment Chart

May 2019 - Aug 2019

- Financial aimed to analyse influence between social sentiment and financial tendency. This was a cooperation project with Oscar Osborne, Ph.D of the University of New South Wales.
  - Used scrapers to get large scale data of tweets. With these data, run sentiment analysis in order to generate a real-time update charts. The raw data may provide further analysis on finance.

### Zhangfei Solving – a project for Entrepreneurship in College

Mar 2018 - Mar 2019

- The goal of this venture project is to develop a learning assistant software (mobile phone app) for undergraduate student. The app's main functions include recognize the circuit map automatically with AI and give the precise solving.
  - I chose the improved method of node to simulate the circuit, which is widely used in various electronic design fields.
  - In terms of circuit recognition, I have improved the traditional circuit pattern recognition method. After the opinion of the school laboratory, the method is applying for a national invention patent, and the patent is currently passed for preliminary examination.

## WORK EXPERIENCE

### Institute of Software Chinese Academy of Sciences

Sep 2018 - Present

Assistant Researcher

Beijing

- Took part in research and development for Internet Data Power project, a National Key Program. The system has been deployed in equipment room of China Construction Bank and worked well.
  - Mainly responsible for the connection and maintenance of the software back-end database and hardware devices. Keep handling high concurrency needs at any time.
  - Completed 40% of the development tasks on Java and MySQL independently and have continued to follow up and maintain.

## SKILLS

- **Skills:** Proficient with Java, Python, Git, Linux/Unix, Internet Protocols, Modbus Protocols, Arduino
- **Languages:** TOFEL : 95