

## Yang Chen

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Address: No.5 Yiheyuan Road Haidian District, Beijing, P.R.China

### EDUCATION

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Peking University, School of Electronics Engineering and Computer Science  
Bachelor of Computer Science 2017.9-Present  
Computer Science (Turing Class) 2018.9-Present  
GPA 3.819 / 4.0

### EXPERIENCE

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**The 10<sup>th</sup> Peking University Game Contest** AI Lab, Peking University, 2018  
3<sup>rd</sup> Place, Teamwork

- Participated in the discussion of the bot's playing strategy
- Wrote part of the code in C++

**Project for Study and Practice on Topics of Frontier Computing (I)** 2018  
Independent work under the instruction of Prof. Liwei Wang

- Explored smoothness of decision boundary from the perspective of universal adversarial perturbations
- Proposed a theoretically feasible method to reduce the impact of universal adversarial perturbations

**Project for Algorithm Design and Analysis (Honor Track)** 2019  
Independent work under the instruction of Prof. Guojie Luo

- Reviewed convex optimization with black-box model, mainly based on the book *Convex Optimization: Algorithm and Complexity* by Sebastien Bubeck

**Internship at Prof. Yizhou Wang's Research Group** 2019-Present

- As the research training program for undergraduate students in Peking University

- Mainly focused on building autonomous learning systems with active learning and meta-learning method
- Reviewed self-aware computing system
- Reviewed active learning
- Reviewed meta-learning
- Gave a tutorial on meta-learning in the research display of Center on Frontiers of Computing Studies and Turing Class, Peking University

### **Project for Theories, Models and Methods of Computational Vision** 2020

Teamwork under the instruction of Prof. Yizhou Wang

- Proposed the idea that training Mask R-CNN in meta-learning style
- Wrote the key part of the code in Python
- Wrote *Introduction*, part of *Related Work*, *Proposed Method* and *Conclusion and Discussion* sections of the project report, *Train Mask R-CNN in Meta Style*

### **Project for Algorithmic Game Theory** 2020

Teamwork under the instruction of Prof. Xiaotie Deng and Dr. Yuqing Kong

- Reviewed on the different definition of privacy in machine learning
- Wrote *Differential Privacy* and *Some Basic Algorithms for DP* sections of the project report, *Who Moved My Privacy*

### **SKILLS AND INTERESTS**

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- Language: English (TOEFL: 95, CET-6: 576); Chinese (mother tongue)
- Computer Skills: C programming, C++ programming, Python programming (can implement machine learning algorithms with Pytorch and Tensorflow), Linux programming, LATEX typesetting
- Research Interests: artificial intelligence and machine learning (autonomous learning, active learning and meta-learning)