

# Jialin CHEN

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## EDUCATION

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**SHANGHAI TECH UNIVERSITY**, Shanghai, China

Sep. 2017 - Jul. 2021

*Bachelor of Science, Physics*

- GPA: **3.88/4.0** | Rank in major: 1/38 | Rank in SPST (School of Physical Science and Technology): 1/91
- Merit Scholarship (Academic Top: 12%; 2017~2018, 2018~2019 & 2019~2020), Outstanding Graduate
- Relevant courses: Laser Principles and Technologies, Femtosecond Laser and Ultrafast Spectroscopy, Non-linear Optics, Communication System, Guided Wave Optics

**UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA**, Anhui, China

Sep. 2021 - Present

*Master of Engineering, Optical Engineering*

## RESEARCH EXPERIENCE

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**SHANGHAI TECH UNIVERSITY**, Shanghai, China

2017 – 2021

*Undergraduate Researcher, Ultrafast and Nonlinear Optics Group* | **PI: John A. McGuire** Jun. 2020 – Jul. 2021

- Learning 2D electric spectroscopy (2D-ES) experiment technology.
- Collaborating in building a 2D-ES system, programming with LabVIEW for line-scan CMOS sensor controlling and optimizing data processing modules, reducing the run time of some modules by more than 50%.

*Undergraduate Researcher, Scanning Tunneling Microscope (STM) Group* | **PI: Shichao Yan** Jul. 2018 – May 2020

- Designed two holders of STM tip etching devices with SOLIDWORKS to improve safety and efficiency of tip etching process.
- Drew a 3D model for the whole lab and its internal facilities for the convenience of the arrangement of the equipments in the lab.

## COMPETITION AND AWARDS

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- **Interdisciplinary Contest In Modeling (ICM)**, Honorable Mention Feb. 2020
- **Chinese Undergraduate Mathematical Contest in Modeling**, Second Prize in Shanghai Dec. 2019
- **China Undergraduate Physics Tournament (CUPT)**: Collaborated with another partner to complete 4 research sub-projects, delivered 5 public presentations and won 3 awards in total:
  - National Second Prize Aug. 2019
  - Second Prize in Shanghai Jul. 2019
  - Second Prize in East China May 2019

## WORKING EXPERIENCE

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**SHANGHAI TECH UNIVERSITY**, Shanghai China

2017 – 2021

*Quantum Physics Lab in Atomic Physics, Teaching Assistant*

Mar. 2021 – Jun. 2021

- Guided the students with experiments and reviewed their presentation and essays.

*Innovative Laboratory for Physics Tournament, Teaching Assistant*

Jul. 2020 – Aug. 2020

- Assisted the instructor with lectures and office hour.

*Principle of Physics I Laboratory, Teaching Assistant*

Sep. 2019 – Jan. 2020

- Trained first-year undergraduates in physics with some commonly-used software (including MATLAB, Adobe Illustrator, Excel, and Tracker), and the usage of high-speed camera.
- Guided the students with experiments and reviewed their reports.
- Assisted the instructors to guide the students with two exploratory experiment projects.

## SKILLS AND OTHERS

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- Languages: Chinese (Native); English (Fluent), TOEFL: 100
- Software & Programming Languages: Python, MATLAB, LabVIEW, Fortran,  $\text{\LaTeX}$ , Adobe Illustrator, SolidWorks
- GRE: 328+3.5; GRE Subject (Physics): 970