

Jialin CHEN

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EDUCATION

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

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.

COMPETITIONS AND AWARDS

- **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

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

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