

Jiayu Yang

UNDERGRADUATE

No.5 Yiheyuan Road Haidian District, Beijing, P.R.China 100871

☎ (+86) 18092689592 | ✉ yangjiayu2015@hotmail.com | 🌐 jackiey2018.github.io | 📺 JackieY2018

Education

School of Physics, Peking University

Beijing, China

UNDERGRADUATE IN PHYSICS

Sept. 2018 - Now

- Overall GPA: **3.925/4.0** — *TOP 5 in the Grade*
- Selected Scholarships and Awards
 - China National Scholarship(2020)
 - China National Scholarship(2019)
 - Mingde Scholarship(2018)
- Selected Courses
 - Group Theory(Graduate Course) **99**
 - Advanced Quantum Mechanics(Graduate Course) **97**
 - Quantum Statistical Physics(Graduate Course) **95**
 - Electrodynamics **99**
 - Methods of Mathematical Physics (2) **98**
 - Seminar for Quantum Mechanics **95**
 - Modern Physics Laboratory I **93**

Skills

Languages Chinese, English

Coding Python, C, Matlab, LaTeX

Software COMSOL, Lumerical FDTD Solutions

Research Experience

Group of nanophotonics, Institute of modern optics, School of Physics

Peking University

DIRECTED BY PROF. XIAOYONG HU

July 2019 - PRESENT

- Working on the research of higher order EPs in the system consisting of two coupled waveguides propagating circularly polarized light.
- Participated in writing a literature review on all-optical switching. Finished the part of PT symmetry and exceptional points along.
- Worked on the design of photonic crystal to create an exceptional point in the structure.
- Worked on the inverse design of grating couplers with wide band.
- Took part in the discuss of an EP-encircling project in system of three waveguides and inverse design project of all-optical device.

Projects

Prediction Model on page view based on history view data.

May 5th-7th, 2020

- The task in Contemporary Undergraduate Mathematical Contest in Modeling in Peking University, also called Cup of Jiang Zehan.
- Use python to sort the history view data and use Matlab to train the BP neural network model.

AI for 2048 the battle mode.

May - June, 2020

- Use python in the whole process.
- Use minmax algorithmic and Alpha-Beta pruning primarily.