

# Dixuan Qiao(乔迪暄)

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## EDUCATION BACKGROUND

Shandong University

Sep 2021-Jun 2025

Bachelor of Science in Physics (expected 2025.6)

Major: Physics

Score: 87.15/100

Core courses: Quantum Mechanics(90/100) Solid State Physics(88/100) Classical Mechanics(86/100)

Introduction to Cosmology(91/100) Non-Equilibrium Statistical Physics(88/100) Introduction to Plasma Physics(86/100)

Supplementary: Transitioned from Mechanical Engineering to Physics, involving a shift in academic focus and coursework.

## RESEARCH EXPERIENCE

### • internal three-dimensional structure of nucleon

Nov 2022-May 2024

Repeated part of a master's thesis (DOI: CNKI:CDMD:2.1017.147177) by calculating structure and fragmentation functions in semi-inclusive deep inelastic scattering.

Identified a minor calculate error in a particle physics book (ISBN: 978-7-03-047551-0, P272).

Gained a comprehensive understanding of the quark model and parton model.

Developed some computational and analytical skills in QFT.

### • research on SNO+ experiment

Nov 2023-Mar 2024

Conducted some small research on neutrino oscillation parameters from the perspectives of group theory.

Investigated experimental setups and methodologies for neutrinoless double-beta decay.

Completed shadowing shift training as part of the experimental team.

Enhanced skills in team coordination, time management, and meeting organization.

## ACTIVITIES

### • 14th Chinese Particle Physics Academic Conference

13 Aug-17 Aug 2024

Attended to gain insights into recent developments in hadron physics.

Served as a conference volunteer, responsible for photography and post-production tasks.

### • ICTP-AP Summer Camp

27 Jun-2 Jul 2024

Explored the latest research in particle physics, focusing on gravitational waves and cosmology.

### • TDLI Astro-Division 2023 Winter Camp

12 Jan-14 Jan 2023

Expanded knowledge in astrophysics through lectures and hands-on experience.

Simulated the unstable evolution process of the stellar systems.

Acquired programming experience in Linux.

## AWARDS

Third Prize Scholarship, Shandong University

Second Prize, Shandong Provincial College Student Physics Innovation Competition

## SKILLS

Programming: C++, Python, Mathematica

Engineering Software: Engineering Drawing, Creo 9.0 (3D modeling)

Additional Skills: Calculations, Organization, Communication

Language: TOEFL 83, CET6 508