

Dixuan Qiao (乔迪暄)

E-Mail: qdxskycbc@mail.sdu.edu.cn

Tel: +8615248438225

EDUCATION

Shandong University

September 2021 – June 2025

Bachelor of Science in Physics (expected 2025.6)

Major: Physics

Average Score: 87.15/100

Core courses: Quantum Mechanics, Statistical Physics, Electrodynamics, Solid State Physics, etc

Supplementary: Transferred from Mechanical Engineering to Physics, shifting academic focus.

RESEARCH EXPERIENCE

• Internal three-dimensional structure of nucleon

November 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

November 2023 – March 2024

Conducted some small research on neutrino oscillation parameters using 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

13–17 August 2024

Attended to gain insights into recent developments in particle physics.

• ICTP-AP Summer Camp

27 June–2 July 2024

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

• TDLI Astro-Division 2023 Winter Camp

12–14 January 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

Extracurricular Involvement

Organizer and Participant of Long-Distance Hiking Expeditions.

Photographer at the University's Media Center, contributed to the coverage of numerous significant events.