

# Siyu JIANG



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## EDUCATIONAL BACKGROUND

- **North China Electric Power University** Sep. 2020 – Present  
**Degree:** Master degree  
**College:** School of New Energy  
**Specialty:** Materials and Chemical Engineering  
**Average Score:** 87.1/100
- **North China Electric Power University** Sep. 2016 - Jun. 2020  
**Degree:** Bachelor degree  
**College:** School of New Energy  
**Specialty:** New Energy Science and Engineering (Biomass)  
**Average Score:** 84.54/100

## ACADEMIC PAPERS & PROJECTS

- **Siyu Jiang**, Longze Wang, Meicheng Li\*, et al. Federated Learning-Based Forecasting Model for PV Power Generations Considering Privacy Protection and Data Sharing[C]. The 10th International Conference on Renewable Power Generation (RPG 2021), 2021, 641 - 645
- Delong Zhang, **Siyu Jiang**, Jinxin Liu, et al. Stochastic Optimization Operation of the Integrated Energy System Based on a Novel Scenario Generation Method[J]. Processes, 2022, 10, 330.
- Delong Zhang, MUBAARAK Saif, **Siyu Jiang**, et al. Optimal Allocation Method of Energy Storage in PV Station Based on the Probabilistic Power Flow[J]. Energy Storage Science and Technology, 2021, 10(6): 2244-2251. (in Chinese)
- Chong Zhao, **Siyu Jiang**, Yu Xie, et al. Analysis of Fault and Protection Strategy of a Converter Station in MMC-HVDC System[J]. Sustainability, 2022, 14, 5446.
- **Project: Research on Distributed Energy Management System Based on Blockchain**  
National Natural Science Foundation of China                      Participant                      Sep. 2020 – Dec. 2023  
**Contents:** Building the consensus mechanism and the encryption algorithm that are suitable for distributed energy, then building a two-way decentralized coordinated self-made energy management model at both ends of energy supply and demand.  
**Duties involved:** was responsible for multi-energy market bidding strategy and blockchain theory. Completed the multi-energy market bidding strategy model, and designed the blockchain network framework.
- **Project: Research on Key Technologies and Benefit Evaluation of Integrated Energy and Multi-energy Complementary Optimal Scheduling Simulation**  
State Grid Hebei Company Science and Technology Project                      Participant                      Sep. 2020 – Mar. 2022

**Contents:** Designing an optimal dispatch model for an integrated energy system with multi-time scales and low carbon emissions.

**Duties involved:** was responsible for the optimal configuration of energy storage under carbon emissions, and designed a MATLAB model.

## **INTERNSHIP & WORKING EXPERIENCE**

- **Beijing East Environment Energy Company** Mar. 2021  
*Clerk*  
**Duties involved:** was involved in the internal training; was familiar with procedure of renewable energy power generation; took part in the production and operation of the company.

## **EXTRA-CURRICULAR ACTIVITIES**

- **The 5<sup>th</sup> China Youth Cup National Undergraduate Mathematical Contest in Modeling** May. 2022  
*Leader*  
**Duties involved:** was responsible for building XGBoost population model and writing contest paper.  
**Achievement:** was awarded the **The First Prize of Graduate Group.**
- **2017 North China Electric Power University Sports Meeting** May. 2017  
*Students Leader*  
**Duties involved:** took charge of opening ceremony

## **CERTIFICATES**

- **The Certificate of National Computer Rank Examination (Level 3)** Sep. 2021
- **Blockchain Application Architect** Aug. 2021
- **The Certificate of College English Test - Band 6 (CET-6) (540/710)** Dec. 2019
- **The Certificate of College English Test - Band 4 (CET-4) (595/710)** Dec. 2018

## **HONORS & AWARDS**

- **The Title of Excellent Member of the Communist Youth League at NCEPU** May.2022
- **The Outstanding Postgraduate at North China Electric Power University (NCEPU)** Oct. 2021
- **The Postgraduate First-Class Academic Scholarship at NCEPU** Oct. 2021
- **The First Prize for the 5<sup>th</sup> China Youth Cup National Undergraduate Mathematical Contest in Modeling** Jul. 2021
- **The Outstanding Graduates of NCEPU** Jun.2020
- **The Second-class Excellent Undergraduates Scholarship at NCEPU (Three times)** Oct. 2017- Oct. 2019
- **The Bona Star Scholarship at NCEPU** Oct.2019
- **The Title of Excellent Member of the Communist Youth League at NCEPU (Three times)** May. 2017- May. 2019

## **PERSONAL SKILLS**

- **Languages:** Chinese (native); English (fluent)
- **Computer:** Skilled utilization in Microsoft Office (Word, PowerPoint, Excel, Visio); MATLAB; Origin

## **INTERESTS & HOBBIES**

- **Cooking**

➤ **Reading**

➤ **Movies**