

LING YUNXIAO

Mobile: +852 46806203 | Email: eden_lyx@163.com
11 Yuk Choi Road, Hung Hom, Kowloon, Hong Kong

EDUCATION

The Hong Kong Polytechnic University	Hong Kong
Doctor of Philosophy	Jan 2024 – Now
<ul style="list-style-type: none">Department of Electrical and Electronic EngineeringChief Supervisor: Dr WANG Qin	
NTU-TUM	Singapore
Master of Science	July 2021 – Apr 2023
<ul style="list-style-type: none">Major: Green ElectronicsJoint degree program between Nanyang Technological University and Technical University of MunichChief Supervisor: Prof. Gooi Hoay Beng	
University of Birmingham	Birmingham, UK
Bachelor of Engineering with First Class Honors	Sept 2019 – Jun 2021
<ul style="list-style-type: none">Major: Electrical and Electronic EngineeringScholarship of 20% tuition fee discount in University of BirminghamDual Degree program between Southwest Jiaotong University and University of Birmingham	
Southwest Jiaotong University	Chengdu, China
Bachelor of Engineering	Sept 2017 – Jun 2019
<ul style="list-style-type: none">Major: Electrical Engineering and Automation	

RESEARCH EXPERIENCE

AI-Powered Electricity Grid Control and Operation	Shenzhen
Research Assistant under <i>Dr Chenye Wu, CUHKSZ</i>	Apr 2023 – Sep 2023
<ul style="list-style-type: none">Assisted to develop the effective end-to-end learning framework for economic dispatch in power system.Investigated the structure of stochastic optimization in economic dispatch and used the notion of task specific criteria to better utilize the data.Established the relationship between the distribution of the predicted load and the optimal total generation, and used binary search to obtain the control policy efficiently.Familiarized myself with Python-based machine learning packages, PyTorch and TensorFlow.	
NTU-Sunseap	Singapore
Research Assistant under <i>Prof Gooi Hoay Beng(IEEE FELLOW), NTU</i>	Jul 2022 – Apr 2023
<ul style="list-style-type: none">Developed the local control theory of the solar PV smoothing algorithm to mitigate low ramp rate intermittency.Developing the Hierarchical Energy Management System to schedule and dispatch the system's operation and optimize the system's operation considering solar intermittency and economic behavior.Developed the system database for saving and prediction data to enable system operation.Developed the GUI interface for real-time control and data visualization.Developed all hardware with lantronix web server to control all hardware wirelessly.	

TEACHING EXPERIENCE

Teaching Assistant – “Open Electricity Market Operation”	Jan 2024 – May 2024
Instructor: Dr. WANG Qin	
<ul style="list-style-type: none">Duties: Write and grade assignments and examinations, host office hours, deliver ‘Julia’ special tutorial.	

EXTRACURRICULAR ACTIVITIES

Member of Sports Department, Student Union, SWJTU	Oct 2017 – Nov 2019
Assistant Engineer, Southwest Electric Power Design Institute	Jul 2020 – Aug 2020
Assistant Engineer, Electric Power Research Institute, State Grid China	Jun 2020 – Jul 2020

ADDITIONAL INFORMATION

-
- Language Skills: Mandarin Chinese (native), English (fluent)
 - Computer Skills: Python(strong), Julia, C++, MATLAB, Altium Designer, Verilog, Multisim
 - Other Skills: Lathe using, Badminton Referee
 - Interests: Badminton, Football, Hiking