

EDUCATION

Shanghai Jiao Tong University, Overall GPA: **84/100** 9/2014–6/2019 (*Expected*)

Candidate for B.Eng in Alternative Energy Science and Engineering, School of Mechanical Engineering

- **Core Courses:** Photovoltaics Science (*A*), Wind Energy Principle and Technology (*A*), New Energy Systems and Their Applications (*A⁺*), Energy Economics (*A*), Energy Chemistry (*A*), Fundamentals of Management (*A*), Calculus II (*A⁻*), Probability and Statistics (*A⁻*), etc.

Technical University of Denmark, Exchange Student 9/2017–6/2018

- Acquired 55 ECTS under MSc programme in Sustainable Energy: 42003 Energy economics, markets and policies, 42002 Modelling and analysis of sustainable energy systems using operations research, 41416 Energy systems - analysis, design and optimization, 42372 Life cycle assessment of products and systems.

RESEARCH WORK

Valuation of the System Advantages of Lower District Heating Temperatures 2/2018–6/2018

Individual Project, DTU Mechanical Engineering

Supervisor: Prof. Brian Elmegaard

- Analyzed the performance of various utility plants, distribution grids and domestic installations under different district heating (DH) temperature
- Developed an Excel-based model for *Sweco* to perform system valuation of DH covering financial, environmental, energy and socio-economic aspects. *Report*

An in-depth Analysis of Key Design Parameters of the Silicon Solar Cell 2/2017–1/2018

Research Assistant, SJTU Energy Research Institute

Supervisor: Prof. Qingchun Yu

- Simulated and obtained the optimal magnitudes of silicon solar cell key parameters with PC1D program
- Analyzed the carrier transmission mechanism behind and compared results with a commercial product so that verified the reliability of PC1D.
- **Publication:** <https://doi.org/10.1016/j.ijleo.2018.02.102>

The Study of Collaborative Design with Multi-disciplinary BIM Softwares 2/2016–3/2017

Team Leader, SJTU BIM Research Center

Supervisor: Prof. Xueyuan Deng

- Took charge of HVAC modelling of SJTU library and coordinated architecture and structure modelling
- Explored the workflow communication among multiple softwares based on BCF and IFC standards
- Won the First Prize out of 434 competitors in The 5th National Building Information Modeling Contest

COURSE PROJECTS

Optimal Dispatch of Heat and Power Producer in the Day-ahead Market 11/2017–12/2017

Group Leader

Proposed by Ea Energy Analyses

- Achieved optimal energy dispatch of various utility plants, i.e. CHP, NG boiler, solar plant and heat storage, with GAMS under day-ahead electricity market to serve the heat load of a large industry. *Report*

Life Cycle Assessment of Decentralised Toilets 9/2017–12/2017

Core Member

Proposed by NP Flint and supervised by DTU QSA

- Quantified the environmental impact of decentralised toilets in comparison with flushing and composting toilets with SimaPro, thus identifying the hotspot stage to improve current design. *Report*

The Photovoltaic System Design for a 100% Solar-powered House 9/2016–1/2017

Individual Project

Supervised by Prof. Xiaoqiang Zhai

- Designed and simulated the PV system applied in a double-decker, 100% solar-powered house with PVsyst and contributed to Team SJTU-UIUC for Solar Decathlon China 2018

PROFESSIONAL EXPERIENCES

BD/Analysis Intern, *ENGIE China* *9/2018–Present*

- Conducted the study on China biomass fuel market, especially focusing on solid biomass for heat & power at Global Energy Management (GEM)

Research Assistant, *Shenzhen Institute of Building Research* *7/2018–10/2018*

- Worked for an national program cooperated with Berkeley Lab (US) to investigate city-level solutions for energy saving and carbon reduction and thereby propose policy recommendations for cities in China
- Specifically compared 8 recognized tools & 9 indicator systems and analyzed over 100 policies' attributes

Student Assistant, *Otago Polytechnic* *8/2016*

- Optimized economic benefits of PV panels in the new campus with Excel through different products and layouts and meanwhile participated in The Dunedin-Shanghai Sister City Education Scholarship Programme

AWARDS

Suzhou Education Scholarship (Top 3%) *10/2017*

Ranking 1/28 in the major, 9/441 in School of Mechanical Engineering during 2016-2017 academic year

The Excellent Student of Shanghai Jiao Tong University (Top 5%) *10/2017*

The Excellent Student Leader of Shanghai Jiao Tong University *5/2017*

Honored Mention, American Interdisciplinary Contest in Modeling *4/2016*

SKILLS

Technical: Energy System Modeling, Life Cycle Assessment, Data Analysis, PV System Design

Software: L^AT_EX, GAMS, SimaPro, PVsyst, R, MS Office, Photoshop, Premiere, ect.

Professional: Teamwork, Project management, Innovation

Language: English - IELTS 7.0 (L:7.5 R:8.5 W:6.5 S:6.0)

MISCELLANEOUS

Cofounder, SJTU Sustainable Campus Initiative (*Promoting and practicing the SDGs*) *3/2018–Present*

Oikos Develop Prize - Social Entrepreneurship Competition at Copenhagen Business School *5/2018*

Chr. Hansen Sustainable Development Case Competition *4/2018*

President, SJTU International Communication Association *5/2016–6/2017*

International Master of Environmental Policy Summer Camp in Duke Kunshan University *8/2017*