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## 教育经历

- 荷兰代尔夫特理工大学, 理学硕士, 复杂系统工程与管理 (能源 & 工业) 2019.9–2021.8
- GPA: 8/10 (A); 中荷奖学金 (Sino-Dutch Scholarship), 由荷兰教育、文化与科学部资助
  - 研究未来能源系统的市场设计、政策制定和管理咨询, 重点为可再生能源、电力、天然气行业
  - 辅修: 经济与金融; 硕士论文课题: 多能耦合的分布式能源交易市场设计[SCI 一区期刊发表]
- 上海交通大学, 工学学士, 机械与动力工程学院新能源科学与工程 2014.9–2019.6
- 所获荣誉: 上海交通大学优秀毕业生 (前 20%), 校三好学生, 校优秀团干部, 苏州育才奖学金 (校一等, 前 2%), 新西兰达尼丁-上海友好城市奖学金
  - 海外交流: 丹麦技术大学交换生, 修读可持续能源系统硕士课程 (2017.8–2018.6)

## 职业经历

- 电力高级咨询师, 落基山研究所, 北京 8/2021–至今
- 专注能源系统转型的非盈利性国际智库, 北京代表处关注电力、重工业、交通、建筑等领域碳中和
- 研究范围包括区域碳中和路线图、电力市场化改革、需求侧灵活性、清洁能源技术与市场等
  - 中国电力系统建模与仿真负责人, 模型覆盖电源规划、现货市场仿真、投资经济性测算等, 同时建立中国办“量化实验室”团队负责数据管理和模型整合
  - 部分项目: 青海、陕西、山东等区域电力系统脱碳路线图, 服务某跨国能源公司进行新能源市场进入的政策和经济性评估, 数智碳中和白皮书 (百度合作)
- 研发实习生, 上海电气电站集团汽轮机厂, 上海 2019.2–2019.6
- 中国大型综合性装备制造集团, 主导产业聚焦能源装备、工业装备、集成服务
- 为“数字化电厂系统设计及实现”课题调研和开发针对汽轮机测点数据的前处理流程和算法, 以应用于通过数据挖掘进行汽轮机状态监测和故障诊断
- 商业分析实习生, ENGIE 中国, 上海 2018.9–2019.2
- 法国能源领域跨国集团, 全球财富百强企业; 提供可持续、低碳的综合能源解决方案
- 进行中国生物质成型燃料市场的研究, 进行文献阅读、专家访谈和实地考察等, 分析市场潜力与风险, 对全产业链进行可行性评估, 并参与两家标的公司的尽职调查
- 研究助理, 深圳市建筑科学研究院上海研创中心, 上海 2018.7–2018.10
- 国家级高新技术企业, 致力于绿色生态城市建设全过程的技术服务与咨询
- 参与政府间国际科技创新合作重点专项 (中美) “城市节能和低碳解决方案工具”研究课题, 对比研究不同软件工具的设计逻辑、指标体系、政策属性和评估框架
- 学生课题, Sweco Denmark, 哥本哈根 2018.2–2018.6
- 欧洲跨国工程咨询公司, 活跃于建筑、能源、基建、电力、环境等领域
- 基于 Excel 开发区域供热全链条模拟工具, 从经济、环境、能源、社会经济多方面对不同供热温度情景进行比较评估, 辅助制定合理的定价、补贴、税务等经济策略

## 专业技能

数据分析, 电力市场仿真, 能源系统建模, 可行性研究, 生命周期评估, 光伏系统设计  
程序软件: MS Office, Python, MATLAB, GIS, PLEXOS, GAMS, SimaPro, L<sup>A</sup>T<sub>E</sub>X  
语言水平: 雅思 7.0, CET 6 级, 普通话二级甲等

## 活动经历

- 助教, TU Delft 硕士课程: 电力市场中的工程优化与可再生能源消纳 2020.8–2020.11
- 联合创始人, 上海交通大学“绿蕉”可持续校园倡议组织 (推广和践行 SDGs) 2018.3–2019.6
- 会长, 上海交通大学国际交流协会 (成员 60+, 校星级社团) 2016.5–2017.6
- 昆山杜克大学国际环境政策项目 (iMEP) 夏令营 2017.8
- 上海中医药大学附属龙华医院守望临终关怀志愿者 2015.9–2016.1
- 上海市启音学校 (聋哑教育机构) 志愿助教 2015.4
- 爱好: 摄影, 游泳, 羽毛球, 旅行博客 <http://www.mafengwo.cn/u/memory.html>

# ZIYI LIU

May 1996, Chinese  
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## EDUCATION

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**Master of Science, Delft University of Technology, Netherlands** 9/2019–8/2021

- MSc Complex Systems Engineering and Management (Energy & Industry) GPA: 8/10 (A)
- An inter-disciplinary training on renewables, electricity & gas network, market design and policy intervention for future energy systems; Minor: Economics and Finance
- Thesis topic: Peer-to-peer multi-energy trading market design [*Publication*]
- Sino-Dutch Scholarship awarded by the Dutch Ministry of Education, Culture and Science

**Bachelor of Science in Engineering, Shanghai Jiao Tong University, China** 9/2014–6/2019

- B.Sc.Eng. Alternative Energy Science and Engineering, School of Mechanical Engineering
- Study abroad at Technical University of Denmark from 8/2017 to 6/2018
- *Honours*: SJTU Outstanding Graduate (Top 20%), Suzhou Education Scholarship (Top 2%)

## PROFESSIONAL EXPERIENCES

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**RMI, Senior Associate - China Power, Beijing** 8/2021– Present

*An independent, non-partisan, nonprofit organization working to accelerate the clean energy transition*

- Conducted research on the carbon-neutral roadmap, power market reform, demand-side flexibility and renewable energy market in China program
- Led the in-house power system modeling for capacity expansion, dispatch optimization and economic evaluation and initiated the cross-team Quant Lab for data management & modeling integration
- Selected projects: Subnational power system decarbonization pathways in Qinghai, Shaanxi, Shandong, etc; Renewables market entry consultation for a global energy company; Digitalization and AI for carbon neutrality collaborated with Baidu

**Shanghai Electric, R&D Intern, Shanghai** 2/2019–6/2019

*A Chinese multinational power generation and electrical equipment manufacturing group*

- Developed the data preprocessing algorithm & process for condition monitoring and fault diagnosis of steam turbines in the Digital Power Plant project

**ENGIE, BD/Analysis Intern, Shanghai** 9/2018–2/2019

*A French multinational energy and services group leading low-carbon power generation and customer solutions*

- Actively tracked market intelligence relevant to solid biomass fuel in China and participated in due diligence of two target M&A firms through desk research and site visit

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

*The Shanghai Research&Innovation Center focuses on comprehensive solutions for green and livable cities*

- Worked for a national joint research program with Berkeley Lab (US) to screen city-level policies and tools for energy saving and carbon reduction

**Sweco, Project Student, Copenhagen** 2/2018–6/2018

*A European architecture and engineering consultancy company for sustainable cities and communities*

- Developed an Excel-based model to perform system valuation of low-temperature district heating systems covering financial, environmental, energy and socio-economic dimensions

## SKILLS

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**Technical:** Data Analysis, Electricity market simulation, Energy Systems Modeling, Feasibility Study

**Program:** MS Office, Python, GIS, PLEXOS, MATLAB, GAMS, SimaPro, L<sup>A</sup>T<sub>E</sub>X

**Language:** English - IELTS 7.0, Mandarin (Native)

## MISCELLANEOUS

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**Cofounder**, SJTU Sustainable Campus Initiative Student Association 3/2018–6/2019

**President**, SJTU International Communication Student Association 10/2014–6/2017

**Hobbies:** Badminton, Swimming, Traveling, Photography [*Collection*]