Ziyi Liu

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Education

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

- MSc Complex Systems Engineering and Management (Energy Track)   *GPA*: 8.5/10 (A)
- An inter-disciplinary training on renewables, electricity & gas infrastructures, market design and policy analysis for future energy systems; Minor: Economics and Finance
- 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 for Energy system analysis at Technical University of Denmark from 8/2017 to 7/2018; Dunedin-Shanghai Sister City Scholarship Programme in 8/2016, New Zealand
- *Honours*: SJTU Outstanding Graduate (Top 20%), Suzhou Education Scholarship (Top 2%), SJTU Merit Student (Top 5%), SJTU Excellent Student Leader, etc

Professional Experiences

Shanghai Electric, *Research Assistant, Shanghai*   11/2018–6/2019

A Chinese multinational power generation and electrical equipment manufacturing group

- Worked for the Digital Power Plant project to realize condition monitoring and fault diagnosis of steam turbines through data mining and knowledge discovery
- Responsible for the development of the data preprocessing algorithm & process to address data redundancy, anomaly detection and data imputation

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
- Conducted the study on China biomass market from supply sustainability to operation safety, from competitive benchmarking to enabling policies

Shenzhen Institute of Building Research, *Research Assistant, Shanghai*   7/2018–11/2018

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

- Worked for a national research program cooperated with Berkeley Lab (US) to investigate city-level solutions for energy saving and carbon reduction
- Specifically compared 8 tools & 9 indicator systems, analyzed 50+ policies' attributes, delivered 100+ pages' report and proposed policy recommendations for cities in China

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

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

- Analyzed the performance of various utility plants, distribution grids and domestic installations under different district heating temperature
- Developed an Excel-based model to perform system valuation of district heating systems covering financial, environmental, energy and socio-economic aspects

Skills

Technical: Energy Systems Modeling, Data Analysis, Feasibility Study, Life Cycle Assessment
Program: MS Office, Python, LaTeX, HTML, GAMS, SimaPro, PVsyst, Photoshop, Premiere
Language: English - IELTS 7.0, Mandarin (Native)

Miscellaneous

Cofounder, SJTU Sustainable Campus Initiative Student Association   3/2018–6/2019
President, SJTU International Communication Student Association (*Over 60 members*)   5/2016–6/2017
Palliative Care Volunteer, Shanghai Longhua Hospital   9/2015–1/2016
Hobbies: Photography, Travelling, Swimming, Badminton, Singing

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Schildstraat 7, 2645HD, Netherlands

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 (能源方向) | 2019.9–2021.7（预计） |

- 中荷奖学金 (Sino-Dutch Scholarship), €16113/年
- 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

| 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%), 第二届大学生头脑奥林匹克创新比赛三等奖等

| 丹麦技术大学, 校际交换生, 修读 MSc Sustainable Energy 能源系统分析课程 | 2017.8–2018.7 |
| 新西兰奥塔哥理工学院, 达尼丁-上海友好城市教育奖学金项目 | 2016.8 |

实习经历

研究助理, 上海电气电站集团汽轮机厂, 上海 　　　　　　　　　　2018.12–2019.6

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

- "数字化电厂系统设计及实现"课题组成员, 应用数据挖掘开发汽轮机状态监测和故障诊断程序
- 开发针对汽轮机测点数据的前处理流程和算法，包括数据去冗余、异常检测和坏点预测替换等

商业分析实习生, ENGIE 中国, 上海 　　　　　　　　　　　　　2018.8–2019.2

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

- 在 Global Energy Management (GEM) 部门进行中国生物质成型燃料市场的研究, 进行实地考察、专家访谈、文献阅读等, 形成阶段性调研报告
- 对全产业链进行可行性分析, 从原料供应的稳定性、工厂运营安全性, 到下游需求、竞争对手、政策环境等, 阐述市场潜力和风险, 辅助投资决策

研究助理, 深圳市建筑科学研究院上海研创中心, 上海 　　　　　　2018.7–2018.11

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, 从国际经验出发探索符合中国低碳城市建设的政策建议
- 对比研究八款软件工具, 九套指标体系以及分析 50 余项相关政策属性, 提出工具开发的逻辑结构和政策推荐的合理框架, 撰写课题阶段性研究报告（3 万余字）

学生课题, Sweco Denmark, 哥本哈根 　　　　　　　　　　　　　2018.7–2018.11

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

- 定量分析多种热生产技术、输热管道、用户侧装置在传统、低温、超低温三种情景下的性能变化, 基于 Excel 开发区域供热评估工具
- 从经济、环境、能源、社会经济多方面对系统在不同温度情景下进行比较评估, 辅助制定合理的定价、补贴、税务等经济策略, 促进可持续供热系统转型

专业技能

能源系统建模, 数据分析, 可行性研究, 生命周期评估, 光伏系统设计

程序软件: MS Office, Python, LaTeX, HTML, GAMS, SimaPro, PVsyst, Photoshop, Premiere

语言水平: 雅思 7.0, CET 6 级, 普通话二级甲等

活动经历

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
Oikos Develop Prize 2018 社会创业竞赛	2018.5
Chr. Hansen 可持续发展案例竞赛 (SDG 12)	2018.4
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*