

ZIYI LIU

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330E Elektrovej. Copenhagen, Denmark 2800



EDUCATION

Shanghai Jiao Tong University GPA: 3.5/4.3 Ranking: 8/28 Sep. 2014 - Present
Candidate for Bachelor of Engineering degree in Alternative Energy Science and Engineering in June. 2019
Technical University of Denmark GPA: 8.8/12(B) Exchange student Sep. 2017 - Jun. 2018
The study plan focuses on energy&environment, e.g. LCA, energy economics, energy system analysis.

RESEARCH&PROJECT WORK

Valuation of the System Advantages of Lower District Heating Temperatures Feb. 2018-Jun. 2018
The project is proposed by [Sweco](#) and supervised by [Prof. Brian Elmegaard](#) to examine how to create incentives for consumers to select Ultra-low temperature district heat system to achieve more sustainability.

Research on key design parameters of the silicon solar cell using PC1D Feb.2017-Jan. 2018

Publication: <https://doi.org/10.1016/j.jleleo.2018.02.102> Supervisor: [Prof. Qingchun Yu](#)
In this study, the optimal magnitudes of silicon solar cell key parameters were calculated and verified using the PC1D simulation program, which proves that PC1D can provide reliable reference values for solar cell design.

Life Cycle Assessment of Decentralised Toilets in comparison with Flushing and Composting Toilets Sep.-Dec. 2017

The project was supervised by [NP Flint](#) and [DTU QSA](#) to quantify the environmental impact of different toilets with SimaPro thus and identify the hotspot stage to improve current design.

Investigate on EU and China Carbon Market Jun.-Aug. 2017

The project was supervised by [Prof. Xiaomin Xie](#) to investigate the determinations of carbon price, especially the renewable energy factor based on EU ETS and provide policy advice to China ETS.

Solar Decathlon China 2018 Mar. 2016-April. 2017

As a former Energy System Department Member of Team SJTU-UIUC, I designed and simulated the PV system for a double-decker, solar-powered permanent family house with PVsyst.

The study of collaborative design with multi-disciplinary BIM softwares Feb. 2016-Mar. 2017

The study was supervised by [Prof. Xueyuan Deng](#). As the group leader, I took charge of HVAC Modeling of SJTU library and explored the information exchange among MagiCAD, ArchiCAD, Navisworks, Bimsight, etc.

SOCIAL EXPERIENCES

Otago Polytechnic , New Zealand Aug. 2016

As the assistant of Energy Consultant [Neville Auton](#), I participated in the energy management for the new campus and used the Excel software to calculate and optimize the economic benefit.

Social Research on New-type Urbanization and Rural Construction in China Jun.-Jul. 2016

As a member of Central China Group, I promoted the philosophy of green building to the rural villages. The project won the honor of National Top 10 Social Practice.

International Communication Association in SJTU

ICA is a student union to organize cross-cultural activities and promote mutual communication between foreign students and local students. My team created and operated 3 Wechat Official Accounts with 5000+ followers in total. ([Link](#))

- President
- Publicity Department Leader

May. 2016 - Jun. 2017

Nov. 2014- May. 2016

Student Career Development Union in SJTU, Excellent Member

Sep. 2014- Jan. 2015

SKILLS

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

Software: Microsoft Office, Photoshop, Premiere, Latex, SimaPro, GAMS, SPSS, PVsyst, ect.

Professional: Teamwork, Project management, Operating social medias, Public Speech

Language: English–IELTS 6.5 Mandarin–National Test 90.4/100

AWARDS

Suzhou Education Scholarship (Top 4%)

Oct. 2017

The Excellent Student of Shanghai Jiao Tong University

Oct. 2017

The Excellent League Cadre of Shanghai Jiao Tong University

May. 2017

First Prize-National Building Information Modeling Contest

Nov. 2016

The Dunedin-Shanghai Sister City Education Scholarship

Aug. 2016

Honored Mention-American Interdisciplinary Contest in Modeling

Apr. 2016

Third Prize-Odyssey of the Mind China for College Students

Dec. 2015

ACTIVITIES

- Microeconomics&Statistics&Academic writing Summer Camp in [Duke Kunshan University](#) *Aug. 2017*
- Palliative care volunteer at Affiliated Shanghai Longhua Hospital *Sep. 2015-Jan. 2016*
- [Shanghai International Marathon Volunteer](#) *Nov. 2016/5*
- Voluntary service at Shanghai QIYIN Primary School for Deaf-Mutes *Apr. 2015*
- Shanghai Jiao Tong University Anniversary Volunteer *Apr. 2017/6/5*
- Work-study programme at Shanghai Jiao Tong University gymnasium *Sep. 2014-Aug. 2015*

HOBBIES

Photography, Travelling, Swimming, Badminton, Singing

Travel Blog: <http://www.mafengwo.cn/u/memory.html>

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教育经历

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|---------------------------|---------------------------------|-------------------|
| 上海交通大学 | 机械与动力工程学院 | 2014.9 - 预计2019.6 |
| 新能源科学与工程专业 | GPA: 3.5/4.3 Ranking: 8/28 | |
| 丹麦技术大学 | 交换访学 | 2017.9 - 预计2018.6 |
| 学习方向专注于可持续能源解决方案与环境影响量化评估 | GPA: 8.8/12(B) | |

科研及项目经历

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|---|-----------------|
| 低温区域供热系统评估 | 2018.2-预计2018.6 |
| ● 本课题由Sweco工程咨询公司和丹麦技术大学(DTU) Brian Elmegaard 教授联合指导, 旨在通过对不同供热系统建模分析, 探讨促使消费者选择超低温供热系统的能源解决方案 | |
| 基于PC1D的硅太阳能电池关键设计参数研究 | 2017.2-2018.1 |
| 论文发表: https://doi.org/10.1016/j.ijleo.2018.02.102 导师: 余晴春教授 | |
| ● 本研究应用PC1D模拟程序确定最优的硅太阳能电池设计参数量级, 并和现有商业化产品对比证明结果的准确性和PC1D的可靠性。 | |
| 一种新型分布型厕所的生命周期评估 | 2017.9-2017.12 |
| ● 本项目由NP Flint咨询公司和DTU量化可持续评估中心联合指导, 旨在运用SimaPro定量分析分布型、冲水式、堆肥式三种厕所全生命周期各阶段的环境影响, 从而为当前产品设计提供参考意见。 | |
| 欧盟和中国碳交易市场调研 | 2017.6-2017.8 |
| ● 本调研由谢晓敏教授指导, 基于欧盟市场分析碳价格的决定因素分析, 特别是可再生能源发展的影响, 进而对中国碳市场提出政策建议。 | |
| 2018中国国际太阳能十项全能竞赛 | 2016.3-2017.4 |
| ● 竞赛内容为建造一栋完全由太阳能提供满足日常生活所需能源的双层住宅, 作为原上海交通大学UIUC队能源系统部部长, 主要负责光伏系统设计工作。 | |
| 多种BIM专业软件协同设计研究 | 2016.2-2017.3 |
| ● 本课题由BIM研究中心邓雪原教授指导, 通过多种专业建模软件搭建上海交通大学图书信息楼BIM模型, 同时探索跨平台信息交流、协同设计。 | |

实习及社会实践经历

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| 新西兰奥塔哥理工学院 | 2016.8 |
| ● 作为能源顾问Neville Auton的助理, 参与到在建校区的能源管理工作, 运用Excel计算和最优经济效益, 同时探讨奥塔哥地区的能源体系及政策。 | |
| 乡研一中国新型城镇化与美丽乡村建设市场调研 | 2016.7-2016.8 |
| ● 本课题旨在倡导与宣传装配式建筑、清洁能源利用、智能家居及能量管理等技术在发展循环经济、改善人居环境等方面的作用, 探索装配式住宅在城镇化建设与美丽乡村建设中的实施可行性。荣获“全国大学生十佳暑期实践团队”称号。 | |
| 上海交通大学国际交流协会 | |

- 国际交流协会旨在组织跨文化活动，促进中外学生交流融合。在职期间，和团队创办三个微信公众号，累计粉丝至5000+。([网站链接](#))

会长 2016.5 - 2017.6

宣传中心部长 2014.11- 2016.5

上海交通大学学生职业生涯规划协会,优秀社员 2014.9- 2015.1

专业技能

能源系统建模，生命周期评估，数据分析，光伏系统设计，社交媒体运营

软件操作: Photoshop, Premiere, Microsoft Office, Latex, SimaPro, GAMS, SPSS, PVsyst, ect.

语言水平: 雅思6.5, CET 6级, 普通话二级甲等

获得荣誉

苏州育才奖学金 (前4%) 2017.10

上海交通大学三好学生 2017.10

上海交通大学优秀团干部 2017.5

第五届“龙图杯”全国BIM (建筑信息模型) 大赛一等奖 2016.11

达尼丁-上海友好城市教育奖学金 2016.8

2016美国大学生数学建模竞赛二等奖 2016.4

第二届大学生头脑奥林匹克创新比赛三等奖 2015.12

活动经历

- [昆山杜克大学](#) 国际环境政策项目(iMEP)夏令营 2017.8

- 上海交通大学120周年校庆嘉宾讲解与摄影志愿者 2016.4

- 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) 志愿者 2015.4

- [上海国际马拉松](#) 志愿者 2015.11

- 上海交通大学综合体育馆勤工助学 2014.9-2015.8

兴趣爱好

摄影, 旅游, 游泳, 羽毛球, 唱歌

旅行博客: <http://www.mafengwo.cn/u/memory.html>