

Yuxiang Chen

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Education

B.S. of Oil and Gas Storage and Transportation Engineering 2014.09 - 2018.06
Changzhou University Jiangsu, China

PH. D of Chemical Process 2018.09 - 2023.06
East China University of science and Technology Shanghai, China

Experience

Data Analyst 2021.09 – Present
Prof. Fahai Cao's research group Shanghai, China

- Analyzed the feasibility of deep utilization of ethylene tar by **computational chemistry**.
- Trained mentees in computational chemistry and mathematical modeling.

Assistant Researcher 2019.01 - Present
International Joint Research Center of Green Energy Chemical Engineering Shanghai, China

- Leading a 5-member team** to intelligently design desulfurization solvents, a Chinese Natural Science Foundation project.
- Designed and developed a web application frontend for validating solvent performance by machine learning using **Python** and **Flask**.
- Developed a new high-performance desulfurization solvent that reached the **industrial pilot stage**.
- Published **3 SCI papers as the first author**, 3 SCI papers as the second author, 1 conference paper, and 3 **invention patents**.

Technical Assistant 2018.09 – 2018.12
Prof. Ping Li's research group Shanghai, China

- Worked in an **agile team** to develop, maintain, and improve chemical simulation processes with **Aspen Plus**, and developed an adsorption kinetics module with **MATLAB**.
- Built a pressure swing adsorption process with low energy consumption.

Projects

Mathematical Contests in Modeling 2017.09 – Present

- 5 years** of experience in mathematical modeling, **awarded 3 times** in the post-graduate mathematical contest, and capable of solving combinatorial optimization, nonlinear systems of equations, and differential equations.
- Won the **national 2nd prize** and had the experience of **independent competition**.

Programming Learning 2018.04 – Present

- Completed multiple computer courses from the University of California, Berkeley, mastering skills including web development, machine learning, and computer systems.
- Received **130 stars** and **80 followers** on GitHub.

Skills

- Languages: Python, MATLAB, R, Java, HTML5, CSS3, JavaScript
- Frameworks: Scikit-learn, PyTorch, pandas, NumPy, Bootstrap 4, jQuery, Flask, Django
- Computational Chemistry: Gaussian, Material Studio, Aspen Plus
- Other: Git, Linux, Mac OS, Windows, MySQL

陈宇翔

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教育经历

本科 油气储运工程 常州大学	江苏 2014.09 - 2018.06
博士 化学工艺 华东理工大学	上海 2018.09 - 2023.06

工作经历

数据分析师 曹发海课题组	2021.09 - 至今 上海
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- 协助导师通过**计算化学**分析了深度利用乙烯焦油的项目可行性。
- 对学员进行计算化学和数学建模等方面的培训。

助理研究员 绿色能源化工国际联合研究中心	2019.01 - 至今 上海
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- 领导一个 **5 人小组** 进行智能设计脱硫溶剂这个中国自然科学基金项目的科研攻关。
- 使用 **Python** 和 **Flask** 设计并开发了一个通过机器学习来验证溶剂性能的 **Web** 应用程序。
- 开发了一种新的高性能脱硫溶剂，该溶剂已进入**工业中试**阶段。
- 发表 **SCI 论文一作 3 篇**，SCI 二作论文 3 篇，会议论文 1 篇，公开发明专利 3 项。

技术助理 李平课题组	2018.09 - 2018.12 上海
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- 在一个**敏捷团队**中工作，利用 **Aspen Plus** 开发、维护和改进化学模拟过程，并利用 **MATLAB** 开发了一个吸附动力学模块。
- 建立了一个低能耗的变压吸附工艺流程。

项目经历

数学建模竞赛	2017.09 - 至今
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- 5 年**数学建模经验，在研究生数学建模竞赛中获奖 **3 次**，擅长解决组合最优化、非线性方程组、微分方程等问题。
- 最高获得全国二等奖，有独立参赛经验。

编程学习	2018.04 - 至今
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- 完成加州大学伯克利分校多门计算机课程，掌握 Web 开发、机器学习、计算机系统等知识。
- GitHub 获得 **130 stars** 和 **80 followers**。

专业技能

- 编程语言: Python, MATLAB, R, Java, HTML5, CSS3, JavaScript
- 框架: Scikit-learn, PyTorch, pandas, NumPy, Bootstrap 4, jQuery, Flask, Django
- 计算化学: Gaussian, Material Studio, Aspen Plus
- 其他: Git, Linux, Mac OS, Windows, MySQL