

# YUHANG YU (余雨航)

Email: [xzli@cse.cuhk.edu.hk](mailto:xzli@cse.cuhk.edu.hk) ✦ Homepage: <https://fallraining.github.io/>

Address: Rm. 504, No. 2 Building of Mechanics, University of Science and Technology of China, Hefei, China

## Education:

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| ➤ <b>University of Science and Technology of China (USTC)</b><br>M. Eng. in Thermal Science and Energy Engineering                      | 02/2020 - 07/2020<br>(Expected graduation) |
| ➤ <b>Chinese Academy of Sciences (CAS)</b><br>N. Eng. in Distributed Generation with Renewable Energy                                   | 07/2018 - 01/2020                          |
| ➤ <b>University of Science and Technology of China (USTC)</b><br>M. Eng. in Thermal Science and Energy Engineering<br>GPA: 3.54/4.0     | 09/2017 - 07/2018                          |
| ➤ <b>Hefei University of Technology, China (HFUT)</b><br>B. Eng. in Energy and Power Engineering (Refrigeration)<br>Major Ranking: 3/84 | 09/2013 - 07/2017                          |

## Research Interests:

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Hydrogen Energy, Solar Energy, Energy Conversion.

## Awards & Honors:

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| National scholarship (Highest scholarship in China, examining) | 2019                   |
| The first prize scholarship                                    | (Per Year) 2016 - 2019 |

## Publications:

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- [1] Advanced concept of coupling solar-aided flue gas treatment and solar-aided power generation in power plants.  
**Yuhang Yu**, Shaopeng Guo, Yong Hao\*, Maobin Hu\*, Ruilin Wang.  
Energy Conversion & Management (ECM), 2019. (IF: 7.181)
- [2] A spectral-splitting photovoltaic-thermochemical system for energy storage and solar power generation.  
Yunyi Ling, Wenjia Li, Jian Jin, **Yuhang Yu**, Yong Hao\*, Hongguang Jin.  
Applied Energy (APEN), 2019. (IF: 8.246)
- [3] A solar methane reforming reactor design with enhanced efficiency.  
Jian Jin, Xin Wei, Mingkai Liu, **Yuhang Yu**, Hui Kong, Yong Hao\*.  
Applied Energy (APEN), 2018. (IF: 8.246)

## Contest Awards:

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[1] Solar photovoltaic-photothermal-methane wet reforming complementary system based on spectral-splitting.

**Yuhang Yu**, Xin Wei.

The 11th "Dongfeng Motor Cup" National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction, 2018. (**The third prize**)

## Professional Skills:

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- **Natural languages:** Chinese, Japanese (JLPT-N1), English (CET-6, TOEFL-preparing).
- **Computer language:** C/C++, Python, Matlab.
- **Software:** COMSOL, ASPEN Plus, SolidWorks, Inventor, AutoCAD, Origin, PS, etc.
- **Experimental device:** SEM, XRD, Mass Spectrometer, etc.