XINJIE HUANG (he/him/his)

Personal website: https://xinjiematthuang.github.io/
Tel.: (+852) 5423 0933 | Email: xjmhuang@connect.hku.hk

EDUCATION BACKGROUND

M.Phil. (master by research) in Mechanical Engineering 2020-2022
The University of Hong Kong, Hong Kong (GPA: 4.0 / 4.0, supported with full scholarships)
Advisors: Dr. Jiyun Song and Prof. Yuguo Li
Research Areas: urban climate, urban canopy model, land-atmosphere interactions, building energy model, urban green infrastructure, thermal comfort, urban biometeorology

B.Eng. in Building Environment and Energy Engineering 2016-2020
Southeast University, Nanjing, China (GPA: 3.6 / 4.0, Grade: 88 / 100)
Advisor: Prof. Cong Liu
Research Areas: indoor air quality, indoor-outdoor air exchanges, ventilation

PUBLICATIONS (*: Corresponding author; †: Equal contribution)

First M.Phil. year (2020-2021):

1. **Huang X.**, Song J.*, Wang C., Chui TFM., Chan PW. (2021) The synergistic effect of urban heat and moisture islands in a compact high-rise city. *Building and Environment* (IF: 6.456), DOI: 10.1016/j.buildenv.2021.108274.

2. Song J.* (advisor), **Huang X.**, Shi D., Lin WE., Fan S., Linden PF. (2021) Natural ventilation in London: towards energy-efficient and healthy buildings, *Building and Environment* (IF:6.456), DOI:10.1016/j.buildenv.2021.107722.

3. Du R., Song J.*, **Huang X.**, Wang Q., Zhang C., Brousse O., Chan PW. (2021) High-resolution regional modeling of urban moisture island: mechanism and implications on thermal comfort, *Building and Environment* (IF:6.456), under review.

4. **Huang X.**, Song J.*, Shi D., Wang C., Chan PW. (2021) Urban climate-human coupling system: model development and case study, manuscript in preparation.

Undergraduate period (2016-2020):

5. Liu C.*† (advisor), **Huang X.† (co-first author)**, Li J. (2020) Outdoor benzene highly impacts indoor concentrations globally, *Science of the Total Environment* (IF:7.963), DOI:10.1016/j.scitotenv.2020.137640.

6. Liu C.* (advisor), **Huang X.**, Zhao Y., Qian H. (2021) A new $PM_{2.5}$-based P-up method to measure building ventilation rate, *Building and Environment* (IF:6.456), under review.

7. Xia F., **Huang X.**, Tian E., Mo J.* (2019) An electrostatically assisted air filter for removing indoor bioaerosols. Paper 609. The 11th International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2019), July 12-15, 2019, Harbin, China. 2016YFE0102300-03, 51722807, 51521005.

HONORS AND AWARDS

Postgraduate Scholarship (PGS), The University of Hong Kong, Hong Kong 2020-2022

First Prize as Team Leader in the National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction, Ministry of Education, China 2019

First Prize of Zhongnan Group Enterprise Scholarship, Southeast University, China 2018
(Top 10 out of ~16000 students)