

XINJIE HUANG (he/him/his)

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EDUCATION BACKGROUND

M.Phil. (master by research) in Mechanical Engineering 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	2020-2022
B.Eng. in Building Environment and Energy Engineering 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	2016-2020

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](https://doi.org/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](https://doi.org/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](https://doi.org/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 (Top 10 out of ~16000 students)	2018