

New PhD Projects and Opportunities

Presidential Young Scholar, Assistant
Professor

Dr Anthony Chun Yin Yuen

Smart Fire Resilience Materials and Modelling

(Department of Building Environment and Energy Engineering)

Supervisor Brief Bio:

Dr Anthony Chun Yin Yuen is currently appointed as an Assistant Professor (Presidential Young Scholar Scheme) at the Department of Building Environment and Energy Engineering, the Hong Kong Polytechnic University. He is also an Adjunct Lecturer at the University of New South Wales, Australia. Dr Yuen has published over 110 journal articles and 2 book chapters with over 3000 citations on Google Scholar ([link](#)).



Research Area:

Dr Yuen carries out research on fundamental fire field model developments, advanced multifunctional flame-retardants and atomistic modelling of polymer composites. He focuses on developing novel simulation approaches to enhance the reliability and capability of Molecular Dynamics (MD) and computational multiphase fluid dynamics (CMFD) models. Dr Yuen aims to synergise my expertise to formulate a systematic, state-of-art numerical modelling platform to effectively enhance the fire performance, mechanical and thermophysical properties of building polymers.

Student Requirements:

Grades: Undergraduate/MPhil/Master by Research score of 80 or above;

English: IELTS 6.5 or above, or TOEFL test 79 or above;

Degree (optional): Preferred background in Mechanical Engineering, Computational Fluid Dynamics, Material Science, or other related Engineering curriculum.

Scholarship:

Each PhD candidate will be awarded a PhD stipend of HKD \$18,100 per month. For highly-achieved students, candidates may also apply for the Hong Kong PhD Fellowship Scheme ([link](#)), successful applicants will be an annual stipend of HKD \$ 325,200 per year with an additional research-related travel allowance of HKD \$ 13,600 per year. The standard candidature at the Hong Kong Polytechnic University is 4 years, while outstanding performing candidates may be granted early graduation arrangements.

Contact Supervisor:

Please be welcome to contact Dr Yuen by sending your expression of interest in PhD study through the following email address: anthony-cy.yuen@polyu.edu.hk

(Noted: Provide your English CV, English academic transcript and proof of English language certificate)

For more info, please kindly visit the following links:

<https://research.polyu.edu.hk/en/persons/anthony-chun-yin-yuen> (HKPolyU website)

<https://research.unsw.edu.au/people/dr-anthony-chun-yin-yuen> (UNSW website)

Other related links:

<https://fire.edu.au/research/> (ARC Training Centre for Fire Safety Research Projects)

