

CURRICULUM VITAE

Name: Nicole Ngai Yung Tsang

Academic Qualifications:

2017 Bachelor of Science, The University of Hong Kong
 2018 Master of Public Health (Distinction), The University of Hong Kong
 2024 Doctor of Philosophy, The University of Hong Kong

Professional Qualifications:

2022 Associate Fellow, Advanced Higher Education (AFHEA)
 2024 Fellow, Royal Society of Public Health (FRSPH)

Academic Positions:

2024 Post-doctoral Fellow, School of Public Health, HKU

Other Qualifications and Positions:

2023 European Respiratory Society (ERS) Clinical Practice Guidelines Methodology Network Member
 2023 European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Evidence Review Group Member
 2023 Professional Certificate in Teaching and Learning in Higher Education (PCTLHE), HKU

Honours & Awards:

2021 Young Scientist Award, European Scientific Working Group on Influenza (ESWI)
 2021 Execution and Design Award, Artificial Intelligence and Business, Techstars Startup Weekend AI Hong Kong, Hong Kong Science and Technology Park, HKAI LAB, Lingnan University Hong Kong
 2021 Bronze Award, Public Health in Action: Student Knowledge Exchange Competition, School of Public Health, University of Hong Kong (HKU)
 2022 Diagnostics 2022 Travel Award, Diagnostics Journal
 2022 Bill & Melinda Gates Foundation (BMGF) Professional Development Award, International Society for Infectious Diseases (ISID)
 2022 Chui's Student Excellence Scheme: Ho King Chun Leadership Award
 2023 Young Investigator Award, International Society for Influenza and other Respiratory Virus Diseases (ISIRV)
 2023 Society for Epidemiologic Research (SER) Student and PostDoc Committee Travel Scholarship
 2023 European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Grant for Postgraduate Educational Course
 2023 Talent Development Scholarship, HKSAR Government Scholarship Fund
 2023 Reaching Out Award, HKSAR Government Scholarship Fund
 2023 HKU Foundation Publication Award for Research Postgraduate Students
 2023 Leong Che-Hung Medical and Research Enrichment Scholarship
 2023 YS and Christabel Lung Postgraduate Scholarship
 2023 Croucher Scholarship for Summer Course: Vaccinology for Public Health and Clinical Practice in the 21st Century
 2024 Research Grants Council (RGC) Postdoctoral Fellowship, University Grants Committee (Ref No. HKU PDFS2425-7S06)
 2024 European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Global 2024 Top Rated Poster
 2024 Japanese Society of Public Health (JSPH) International Participant Award
 2025 JEA Travel Grant, Japan Epidemiological Association
 2025 Distinguished Service to the Community, CEDARS, HKU

Publications:**Peer-reviewed journal articles:**

1. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Effectiveness of BNT162b2 and CoronaVac COVID-19 vaccination against asymptomatic and symptomatic infection of SARS-CoV-2 Omicron BA.2 in Hong Kong: a prospective cohort study. **The Lancet Infectious Diseases**. 2023 Apr;23(4):421-434. [https://doi.org/10.1016/S1473-3099\(22\)00732-0](https://doi.org/10.1016/S1473-3099(22)00732-0) [IF 36.4 (2023), Rank 1/132 Infectious Diseases] (first author) (66 citations)
2. **Tsang NNY**, So HC, Ng KY, Cowling BJ, Leung GM, Ip DKM. Diagnostic performance of different sampling approaches for SARS-CoV-2 RT-PCR testing: a systematic review and meta-analysis. **The Lancet Infectious Diseases**. 2021;21(9):1233-45. [https://doi.org/10.1016/S1473-3099\(21\)00146-8](https://doi.org/10.1016/S1473-3099(21)00146-8) [IF 71.421 (2021), Rank 1/123 Infectious Diseases] (first author) (307 citations)
3. **Tsang NNY**, So HC, Ip DKM. Is oropharyngeal sampling a reliable test to detect SARS-CoV-2? Authors' reply. **The Lancet Infectious Diseases**. 2021;21(10):1348-9. [https://doi.org/10.1016/S1473-3099\(21\)00402-3](https://doi.org/10.1016/S1473-3099(21)00402-3) [IF 71.421 (2021), Rank 1/123 Infectious Diseases] (first author) (10 citations)
4. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Performance of saline and water gargling for SARS-CoV-2 reverse transcriptase PCR testing: a systematic review and meta-analysis. 2022. **European Respiratory Review** 2022 Sep 20;31(165):220014. doi: 10.1183/16000617.0014-2022. <https://doi.org/10.1183/16000617.0014-2022> <https://err.ersjournals.com/content/31/165/220014> [IF 7.5 (2022), Rank 11/99 Respiratory System] (first author) (6 citations)
5. Wang Y, So HC, **Tsang NNY**, Kwok SK, Cowling BJ, Leung GM, Ip DKM. Clinical profile analysis on community infections over periods with Omicron BA.2, BA.4/5, and XBB dominance in Hong Kong: a prospective cohort study. **The Lancet Infectious Diseases**. 2024. (Published online 2024 October 14) [https://doi.org/10.1016/S1473-3099\(24\)00574-7](https://doi.org/10.1016/S1473-3099(24)00574-7) [IF 36.4 (2023), Rank 1/132 Infectious Diseases] (1 citation)
6. Tsang T, Wang C, **Tsang NNY**, Fang V, Perera R, Peiris M, Leung GM, Cowling BJ, Ip DKM. Impact of host genetic polymorphisms on response to inactivated influenza vaccine in children. **npj Vaccines**. 2023 Feb 20;8(1):21. doi: 10.1038/s41541-023-00621-1. <https://doi.org/10.1038/s41541-023-00621-1> [IF 6.9 (2023), Rank 22/181 Immunology and 22/189 Medicine, Research & Experimental] (5 citations)
7. **Tsang NY**, So HC, Ho HF, Leung GM, Ip DKM. Public perception and performance of different sampling approaches for the diagnosis of COVID-19. **Influenza Other Respi Viruses**. 2021 May;15(3):420-422. <https://doi.org/10.1111/irv.12834> [IF 5.606 (2021), Rank 33/94 Infectious Diseases, 12/38 in Virology] (first author)
8. Bartoletti M, Azap O, ..., **Tsang NNY**,..., Zollner-Schwetz I, Chemaly RF on behalf of ESCMID study group for infections in the immunocompromised host (ESGICH). Management of COVID-19 in Immunocompromised Patients: an ESCMID Consensus Document. *Clinical Microbiology and Infection*

Book Chapter:

9. **Tsang NNY**, So HC, Ip DKM. Using large scale rapid antigen testing (RAT) to inform participatory ad-hoc community surveillance for emerging communicable diseases epidemics. In: Dr. Laura A, editor. *Rapid Antigen Testing*. Rijeka: IntechOpen; 2023. p. Ch. 3. ISBN 978-1-83769-568-3. <https://doi.org/10.5772/intechopen.1002337> (first author)

Conference abstracts:**Oral presentations:**

10. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Using gargle for monitoring viral shedding in confirmed COVID-19 patients. The Eighth ESWI Influenza Conference. Austria. 4-7 December 2021.
11. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Comparative Sensitivity of Different Self-sampling Methods for SARS-CoV-2 RT-PCR Testing. APRU Global Health Conference 2021, Hong Kong, 16-18 November 2021.
12. **Tsang NY**, So HC, Ng KY, Cowling BJ, Leung GM, Ip DK. Pooled nasal and throat swabs, nasal swabs and saliva as alternative clinical specimens for the diagnosis of COVID-19: a systematic review and meta-analysis. The Seventh ESWI Influenza Conference, Valencia Spain, Dec 6- 9, 2020.
13. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Differential subpopulations risk of SARS-CoV-2 infection in Hong Kong – Assessing the inequitable impact of the pandemic. Hong Kong College of Community Medicine Annual Scientific Meeting, Hong Kong, Sep 24-25, 2022.
14. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Impact of COVID-19 vaccination on duration of viral shedding in asymptomatic and symptomatic infection. ISIRV Correlate of Protection Conference. March 1-3, 2023. Seattle, WA.
15. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Establishing a participatory daily antigen rapid testing surveillance (DARTS) system for SARS-CoV-2 infection in Hong Kong. ESCMID Summer School. July 1-8, 2023. Spain.
16. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Using a large-scale participatory Daily Antigen Rapid Testing Surveillance (DARTS) system to ascertain asymptomatic infection and monitor SARS-CoV-2 activity in community. The Hong Kong College of Community Medicine Annual Scientific Meeting, Hong Kong. September 23, 2023.
17. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Daily Antigen Rapid Testing Surveillance (DARTS) platform for situational awareness and vaccine effectiveness estimation of COVID-19 in Hong Kong. TRS review meeting. October 9, 2023. Hong Kong.
18. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Lack of protective effect of fourth dose vaccination on SARS-CoV-2 infection. Individual and Population Immunity to Respiratory Viruses Conference. November 8-10, 2023. Hong Kong.
19. **Tsang NNY**, So HC, Cowling BJ, Leung GM, Ip DKM. Relative impact of vaccination and prior infection to prevent COVID-19 incidence. Japanese Society of Public Health. 83rd Annual Meeting 2024. October 29-31, 2024.

Academic Thesis:

20. **Tsang NNY**. Public Health and Epidemiological Considerations in the Control of Epidemic and Pandemic Respiratory Infections. Thesis for the degree of Doctor of Philosophy (*Outstanding - Top 5%*)
21. **Tsang NNY**. Role of environmental fomites in the transmission of influenza virus and the implication on hygienic control measures. Thesis for the degree of Master of Public Health (*Distinction*)

Reviewer for international academic journal:

The Lancet Regional Health - Western Pacific

Open Forum Infectious Diseases, Infectious Diseases Society of America (IDSA)

Influenza and Other Respiratory Viruses, International Society for Influenza and other Respiratory Virus Diseases (isirv)

Journal of the Royal Statistical Society: Series A

Community Services:

- 2024 – Current ESCMID Study Group for Respiratory Viruses (ESGREV)
- 2024 – Current ESCMID Vaccine Study Group (EVASG) (Vaccine Perceptions)
- 2024 – Current Capstone Advisor, Master of Public Health, SPH, HKU
- 2023 – Current European Respiratory Society (ERS) Clinical Practice Guidelines Methodology Network Member
- Task force member TF-2023-03: ERS/ESGE/ESTS Combined endobronchial and esophageal endosonography for the diagnosis and staging of lung cancer
- 2023 – Current European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Evidence Review Group Member
- Task force member: ESCMID consensus treatment of COVID-19 in immunocompromised host
 - Task force member: ESCMID project on guidelines for the prevention of ventilator-associated pneumonia: Infection Control Strategies and Interventions to prevent ventilator-associated pneumonia in adult patients
- 2023 – Current Resident Tutor, Shun Hing College, HKU
- Design and execute programmes to enrich students' learning experience
 - In charge of health and wellness affairs, and students' mental wellbeing
 - Guide and advise students in academic and non-academic matters
 - *Tutor-in-charge of Health and Wellness Team.*
 - *Award received: Distinguished Service to the Community in the 28th Recognition Ceremony, HKU*
- 2020 – Current Knowledge Exchange Volunteer, School of Public Health, HKU (<https://covid19.sph.hku.hk/>)
- 2019 – Current Tutor, Master of Public Health, School of Public Health, HKU ("Practice of Public Health", "Personalized Public Health", "Principle of Public Health", "Introduction to Epidemiology" modules)
- 2018 – Current Medical Outreach Volunteer, Knowledge Exchange Programme, Fight the Flu (流感小戰士), Microbe Fighters (防疫小戰士), COVID Fighters (新型冠狀病毒小戰士), School of Public Health, HKU