

CURRICULUM VITAE

(prior to 09/2023)

1. Personal information

Name: XUAN-HUY (SIMON) NINH, PhD
Date of birth: 01 - 03 - 1993
Place of birth: Vietnam
Email: ninhxuanhuy@tdtu.edu.vn
Working place: Faculty of Environment and Labor Safety,
Ton Duc Thang University.
Position: Lecturer
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2. Qualification

Time	Degree	University
10/2011 - 09/2015	Bachelor of Engineering Major: Safety Engineering	Ton Duc Thang University (Vietnam)
10/2015 - 07/2017	Master of Science in Engineering Major: Environmental Engineering	Ming Chi University of Technology (Taiwan)
09/2017 - 07/2023	Doctor of Philosophy Major: Environmental and Occupational Health Minor: Occupational Hygiene	National Cheng Kung University (Taiwan)

3. Research interests

- Air Quality
- Aerosol Science
- Environmental Science
- Exposure and Health Risk Assessment
- Hazard Assessment and Control
- Industrial Hygiene and Occupational Safety

4. Professional experience

Time	Organization	Position
07/2016 - 07/2017	Department of Safety, Health and Environmental Engineering, Ming Chi University of Technology, Taiwan	Research Assistant
02/2018 - 01/2020	Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Taiwan	Teaching Assistant
09/2017 - 07/2023	Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Taiwan	Research Assistant
09/2023 - now	Faculty of Environment and Labour Safety, Ton Duc Thang University, Vietnam	Lecturer

5. Publication

5.1 Journal articles

1. **Ninh, X.-H.**, Tzeng, H.-Y., Wong, T.-W., Wu, Y.-T., Kuo, Y.-L., & Lin, M.-Y. (2023). *Applying an air curtain to reduce surgical smoke concentration*. *Air Quality, Atmosphere & Health*.
2. **Ninh, X.-H.**, Su, J.-W., Lin, H.-Y., Chen, Y.-C., Wang, S.-H., Guo, H.-R., Kuo, Y.-L., & Lin, M.-Y. (2022). *Applying negative ions to reduce surgical smoke in operation room*. *Atmospheric Environment: X*, 15, 100184.
3. Cheng, Y.-H., **Ninh, X.-H.**, & Yeh, S.-L. (2019). *Dominant Factors Influencing the Concentrations of Particulate Matters inside Train Carriages Traveling in Different Environments in the Taipei Mass Rapid Transit System*. *Aerosol and Air Quality Research*, 19(7), 1579-1592.

5.2 Conference

1. **Ninh, X.-H.**, Wang, W.-A., Kuo Y.-L., & Lin, M.-Y.*, *Applying positive and negative ions for surgical smoke reduction*, Theory and Technique International Aerosol Conference - 2023 9th T&TIAC, July 21-23 2023, Kanchanaburi, Thailand.
2. **Ninh, X.-H.**, Chen, H.-H., Wu C.-Y., Chen Y.-C., & Lin, M.-Y.*, *Reducing aerosol from dental handpiece*, Theory and Technique International Aerosol Conference - 2023 9th T&TIAC, July 21-23 2023, Kanchanaburi, Thailand.

3. **Ninh, X.-H.**, Tzeng, H.-Y., Kuo, Y.-L., & Lin, M.-Y.*, *Applying air curtain to reduce the surgical smoke in an operation room*, Asian Aerosol Conference (AAC) 2022, June 12-16 2022, Taipei City, Taiwan.
4. **Ninh, X.-H.**, Lin, S.-L., Yu, T.-W, Lin, M.-Y., & Lin, M.-Y.*, *Evaluation of different street clean methods on reducing road fine particulate matter*, The 26rd International Conference on Aerosol Science, October 4-5 2019, Taoyuan City, Taiwan.
5. **Ninh, X.-H.**, Wang, J.-R., Su, J.-W, Su H.-J., & Lin, M.-Y.*, *Development of an efficient viral aerosol sampling system with high flowrate*. Asian Aerosol Conference (AAC) 2019, May 27-30 2019, Hong Kong, China.
6. **Ninh, X.-H.**, Chu, C.-C., & Lin, M.-Y.*, *The effect of vegetation barrier on the dispersion of ultrafine particles in a wind tunnel*. Asian Aerosol Conference (AAC) 2019, May 27-30 2019, Hong Kong, China.
7. **Ninh, X.-H.**, Wang, J.-R., Su, J.-W, Su H.-J., & Lin, M.-Y.*, *Development of a high-efficiency viral aerosol sampler for high flow rate*, 2019 Theory and Technique Taiwan Forum on Sustainable Environment (2019 T&T TFOSE), April 02 2019, Taipei, Taiwan
8. **Ninh, X.-H.**, Su, J.-W., Lin, M.-Y., Cheng, H.-H., Wang, Y-F., Lin, M.-Y., & Wang, L.-C.*, *Evaluate the performance of low-cost PM sensor in the workplace*, 2019 New Generation Air Quality Monitoring and Internet of Things Symposium, March 22 2019, Taichung, Taiwan.
9. **Ninh, X.-H.**, Chu, C.-C., & Lin, M.-Y.* (2018/09), *The effect of vegetation barrier on ultrafine particle number concentration in a wind tunnel*. The 25rd International Conference on Aerosol Science, September 14-15 2019, Tainan, Taiwan
10. **Ninh, X.-H.** and Cheng, Y.-H.*, *Characteristics of Particle Mass and Number Size Distributions inside Metro Trains Traveling on Ground and in Underground Environments in the Taipei Mass Rapid Transit System*. The Air & Waste Management Association's 110th Annual Conference & Exhibition, Pittsburgh, June 05-08 2016, PA, USA.
11. **Ninh, X.-H.** and Cheng, Y.-H.*, *Characteristics of the indoor air quality inside the trains in the Taipei Mass Transit System and the health implications for passengers*, The 23rd International Conference on Aerosol Science, September 23-24 2019, Taipei, Taiwan.

6. Workshop and Training

1. Professional Development Courses (PDCs) for Industrial Hygienists, organized by the Occupational Health and Safety at Work Association (OHSWA) and Asian Network of Occupational Hygiene (ANOH), from Nov 9th to 12th, 2019, onsite at Best Western Plus Wanda Grand Hotel, Thailand.
2. 2021 Biomedical innovation and entrepreneurship training course, organized by Spark Taiwan, Spark Oceania and Spark Global, from Feb 22nd to Mar 6th 2021, online and onsite at National Cheng Kung University, Taiwan.

3. International workshop on environmental hazard identification and exposure assessment of multi-chemical substances, organized by Taiwan EPA, National Cheng Kung University (NCKU) and Texas A&M University, from Jan 10th to Jan 13th 2023, onsite at NCKU, Taiwan.

7. Awards

1. Winner lists (Team member), *A comfortable dental handpiece with aerosol reduction function*, **2021 Future Tech Awards [2021未來科技館]**, organized by the Ministry of Science and Technology (Taiwan), Academia Sinica (Taiwan), Ministry of Education (Taiwan), and Ministry of Health and Welfare (Taiwan) in 09/2021.
2. First prize (Team member), *An approach to reduce particles formed in dental clinic*, **NCKU Innovation and Dream Project: 2020 Dreams Come True [2020成大創新圓夢計畫]**, organized by Cheng Kung University's Center for Corporate Relations and Technology Transfer in 11/2020.