

# CURRICULUM VITAE

## Seung-Muk Yi

Professor

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### Education

Ph.D., 1995, Environmental Engineering, Illinois Institute Technology, Chicago, IL

M.S., 1992, Civil Engineering (Urban Engineering Major), Seoul National University, Seoul, Korea

B.S., 1990, Civil Engineering, Seoul National University, Seoul, Korea

### Professional

- Sept. 09-present, Professor, Department of Environmental Health, Seoul National University, Seoul, Korea.
- Sept. 04-Aug. 09, Associate Professor, Department of Environmental Health, Seoul National University, Seoul, Korea.
- Sept. 02-Aug. 04, Assistant Professor, Department of Environmental Health, Seoul National University, Seoul, Korea.
- Sept. 00-Aug. 02, Visiting Scholar, Department of Civil and Environmental Engineering, Clarkson University, Research on development and demonstration of innovative instrument for PM 2.5, dry deposition of large particles containing organic contaminants dominate atmospheric deposition to estuaries proximate to urban/industrial centers, and Lake Ontario Atmospheric Deposition Study.
- Sept. 98-Aug. 00, Assistant Professor, Department of Environmental Science and Engineering, Ewha Women's University, Seoul, Korea.
- Sept. 96-Aug. 98, Full Time Lecturer, Department of Environmental Science and Engineering, Ewha Women's University, Seoul, Korea.
- Jan. 96-Aug. 98, Research Associate, Department of Environmental Engineering, Illinois Institute of Technology. Research on the measurement of dry deposition and ambient particle size distribution.
- Sept. 92-Dec. 95, Doctoral Candidate and Research Assistant, Department of Environmental Engineering, Illinois Institute of Technology. Ph.D. dissertation research on development and evaluation of a water surface sampler to measure dry deposition.

## **Research Interests**

Climate Change: Greenhouse Gases Emission Inventory; Climate Change and its Health Effects; Source Apportionment of PM<sub>2.5</sub>; Health and Toxicological Effects of Chemical species and Sources of PM<sub>2.5</sub>; Sources, Transport, Transformations, and Fate of Mercury in Natural Systems

## **Thesis and Dissertation**

- Yi, Seung-Muk, "Development and Evaluation of A Water Surface to Measure Dry Deposition", Ph.D. Dissertation, Illinois Institute of Technology, Chicago, IL, U.S.A., 1995
- Yi, Seung-Muk, "Study on the phenol adsorption by activated carbon and regeneration", M.S. Thesis, Seoul National University, Seoul, Korea, 1992

## **MEMBERSHIPS**

American Association for Aerosol Research (AAAR)  
Korean Society of Environmental Engineers  
Korean Society for Atmospheric Environment  
Korean Society of Climate Change Research

## **PUBLICATIONS**

1. Choi, E., Eum, H., Seo, Y.S., Yi, S.M. and Lee, H., 2018. Variability of nitrous oxide and carbon dioxide emissions continuously measured in solid waste incinerators. *Journal of Material Cycles and Waste Management* , 20 (2), pp.832-843.
2. Kim, T.Y., Kim, H., Yi, S.M., Cheong, J.P. and Heo, J., 2018. Short-term effects of ambient PM<sub>2.5</sub> and PM<sub>2.5-10</sub> on mortality in major cities of Korea. *Aerosol Air Qual. Res* , 18 , pp.1853-1862.
3. Kim, S., Kim, T.Y., Yi, S.M. and Heo, J., 2018. Source apportionment of PM<sub>2.5</sub> using positive matrix factorization (PMF) at a rural site in Korea. *Journal of environmental management* , 214 , pp.325-334.
4. Lee, D.G., Kim, K.R., Kim, J., Kim, B.J., Cho, C.H., Sheridan, S.C., Kalkstein, L.S., Kim, H. and Yi, S.M., 2018. Effects of heat waves on daily excess mortality in 14 Korean cities during the past 20 years (1991–2010): an application of the spatial synoptic classification approach. *International journal of biometeorology* , 62 (4), pp.575-583.
5. Lee, H.H., Choi, N.R., Lim, H.B., Yi, S.M., Kim, Y.P. and Lee, J.Y., 2018. Characteristics of oxygenated PAHs in PM<sub>10</sub> at Seoul, Korea. *Atmospheric Pollution Research* , 9 (1), pp.112-118.
6. Lee, H., Myung, W., Cheong, H.K., Yi, S.M., Hong, Y.C., Cho, S.I. and Kim, H., 2018. Ambient air pollution exposure and risk of migraine: Synergistic effect with high temperature. *Environment international* , 121 , pp.383-391.

7. Lee, H., Yi, S.M., Holsen, T.M., Seo, Y.S. and Choi, E., 2018. Estimation of CO<sub>2</sub> emissions from waste incinerators: Comparison of three methods. *Waste Management* , 73 , pp.247-255.
8. Park, E.H., Heo, J., Hirakura, S., Hashizume, M., Deng, F., Kim, H. and Yi, S.M., 2018. Characteristics of PM 2.5 and its chemical constituents in Beijing, Seoul, and Nagasaki. *Air Quality, Atmosphere & Health* , 11 (10), pp.1167-1178.
9. Park, J., Park, E.H., Schauer, J.J., Yi, S.M. and Heo, J., 2018. Reactive oxygen species (ROS) activity of ambient fine particles (PM 2.5) measured in Seoul, Korea. *Environment international* , 117 , pp.276-283.
10. Woo, C., An, C., Xu, S., Yi, S.M. and Yamamoto, N., 2018. Taxonomic diversity of fungi deposited from the atmosphere. *The ISME journal* , 12 (8), p.2051.
11. Choi, E., Shin, E., Seo, Y.S., Kim, J.Y. and Yi, S.M., 2017. The application and development of country-specific parameters for accurate estimations of methane emissions from solid-waste disposal sites. *Journal of Material Cycles and Waste Management* , 19 (3), pp.1117-1126.
12. Hwang, S.H., Lee, J.Y., Yi, S.M. and Kim, H., 2017. Associations of particulate matter and its components with emergency room visits for cardiovascular and respiratory diseases. *PloS one* , 12 (8), p.e0183224.
13. Kim, H., Kim, J., Kim, S., Kang, S.H., Kim, H.J., Kim, H., Heo, J., Yi, S.M., Kim, K., Youn, T.J. and Chae, I.H., 2017. Cardiovascular effects of long-term exposure to air pollution: a population-based study with 900 845 person-years of follow-up. *Journal of the American Heart Association* , 6 (11), p.e007170.
14. Kim, S.E., Honda, Y., Hashizume, M., Kan, H., Lim, Y.H., Lee, H., Kim, C.T., Yi, S.M. and Kim, H., 2017. Seasonal analysis of the short-term effects of air pollution on daily mortality in Northeast Asia. *Science of the Total Environment* , 576 , pp.850-857.
15. Lee, J.Y., Park, E.H., Lee, S., Ko, G., Honda, Y., Hashizume, M., Deng, F., Yi, S.M. and Kim, H., 2017. Airborne Bacterial Communities in Three East Asian Cities of China, South Korea, and Japan. *Scientific reports* , 7 (1), p.5545.
16. Lim, Y.H., Bae, H.J., Yi, S.M., Park, E., Lee, B.E. and Hong, Y.C., 2017. Vascular and cardiac autonomic function and PM<sub>2.5</sub> constituents among the elderly: a longitudinal study. *Science of The Total Environment* , 607 , pp.847-854.
17. Wu, C.F., Woodward, A., Li, Y.R., Kan, H., Balasubramanian, R., Latif, M.T., Sahani, M., Cheng, T.J., Chio, C.P., Taneepanichskul, N. and Kim, H., 2017. Regulation of fine particulate matter (PM<sub>2.5</sub>) in the Pacific Rim: Perspectives from the APRU Global Health Program. *Air Quality, Atmosphere & Health* , 10 (9), pp.1039-1049.
18. Seo, Y.S., Jeong, S.P., Holsen, T.M., Han, Y.J., Choi, E., Park, E.H., Kim, T.Y., Eum, H.S., Park, D.G., Kim, E. and Kim, S., 2016. Characteristics of total gaseous mercury (TGM) concentrations in an industrial complex in South Korea: impacts from local sources. *Atmospheric Chemistry and Physics* , 16(15), pp.10215-10228.
19. Lee, G.S., Kim, P.R., Han, Y.J., Holsen, T.M., Seo, Y.S. and Yi, S.M., 2016. Atmospheric speciated mercury concentrations on an island between China and

- Korea: sources and transport pathways. *Atmospheric Chemistry and Physics*, 16(6), pp.4119-4133.
20. Li, Y.R., Feng, L.T., Chen, B.Y., Kim, H., Yi, S.M., Guo, Y.L. and Wu, C.F., 2016. Association of urban particle numbers and sources with lung function among children with asthma or allergies. *Science of The Total Environment*, 542, pp.841-844.
  21. Kang, S.H., Heo, J., Oh, I.Y., Kim, J., Lim, W.H., Cho, Y., Choi, E.K., Yi, S.M., Do Shin, S., Kim, H. and Oh, S., 2016. Ambient air pollution and out-of-hospital cardiac arrest. *International journal of cardiology*, 203, pp.1086-1092.
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  24. Choi, J.K., Ban, S.J., Kim, Y.P., Kim, Y.H., Yi, S.M. and Zoh, K.D., 2015. Molecular marker characterization and source appointment of particulate matter and its organic aerosols. *Chemosphere*, 134, pp.482-491.
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  26. Seo, Y.S., Han, Y.J., Holsen, T.M., Choi, E., Zoh, K.D. and Yi, S.M., 2015. Source identification of total mercury (TM) wet deposition using a Lagrangian particle dispersion model (LPDM). *Atmospheric Environment*, 104, pp.102-111.
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  30. Yi, S.M. and Hwang, I., 2014. Source Identification and Estimation of Source Apportionment for Ambient PM 10 in Seoul, Korea. *Asian Journal of Atmospheric Environment (AJAE)*, 8(3).
  31. Choi, E., Shin, E. and Yi, S.M., 2014. Quality Improvement of Greenhouse Gas Inventories by the Use of Bottom-Up Data. *Journal of Korean Society for Atmospheric Environment*, 30(2), pp.161-174.
  32. Gasparrini, A., Guo, Y., Hashizume, M., Lavigne, E., Zanobetti, A., Schwartz, J., Tobias, A., Tong, S., Rocklöv, J., Forsberg, B. and Leone, M., 2014. Mortality

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  35. Choi, E., Shin, E. and Yi, S.M., 상향식 자료를 이용한 온실가스 인벤토리의 품질 개선 방향-화학, 금속 분야를 중심으로. *한국대기환경학회지*, 30(2).
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