

## Book Chapter

Arunachalam S., Valencia A., Silva A., Huang J., Omary M., and Vennam L.P. (2017) A global-scale multi-resolution study of surface air quality impacts from commercial aircraft emissions. *Air Pollution Modeling and its Application XXV*, C. Mensink and G. Kallos eds.

## Journal Articles

Valencia A., Serre M., and Arunachalam S. (2023) A hyperlocal hybrid data fusion near-road PM<sub>2.5</sub> and NO<sub>2</sub> annual risk and environmental justice assessment across the United States. *PLOS ONE*, 18(6). Available at <https://doi.org/10.1371/journal.pone.0286406>.

Wolfe M.K., McDonald N.C., S. Arunachalam, Baldauf R., and Valencia A. (2021) Impacts of school location on children's air pollution exposure. *Journal of Urban Affairs*, 43(8), 1118-1134, doi: 10.1080/07352166.2020.1734013. Available at <https://doi.org/10.1080/07352166.2020.1734013>.

Valencia A., Arunachalam S., Isakov V., Naess B., and Serre M. (2021) Improving emissions inputs via mobile measurements to estimate fine-scale black carbon monthly concentrations through geostatistical space-time data fusion. *Science of the Total Environment*, 793, 148,378, doi: 10.1016/j.scitotenv.2021.148378, November 1. Available at <https://www.sciencedirect.com/science/article/abs/pii/S0048969721034495?via%3Dihub>.

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Arunachalam S., Naess B., Seppanen C., Valencia A., Brandmeyer J.E., Venkatram A., Weil J., Isakov V., and Barzyk T. (2019) A new bottom-up emissions estimation approach for aircraft sources in support of air quality modelling for community-scale assessments around airports. *International Journal of Environment and Pollution*, 65(1-3), 43-58, doi: 10.1504/IJEP.2019.101832, August 22. Available at <https://www.inderscienceonline.com/doi/abs/10.1504/IJEP.2019.101832>.

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*Transportation Research Part D: Transport and Environment*, 59, 464-477, doi: 10.1016/j.trd.2018.01.028, March. Available at <https://doi.org/10.1016/j.trd.2018.01.028>.

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## Formal Reports

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Vizuete W., Jeffries H., Valencia A., Couzo E., Wilkinson J., Christoph E., Henderson B., Parikh H., and Kolling J. (2009) Multi-model, multi-episode process analysis to investigate ozone formation and control

sensitivity in the 2000/2005/2006 Houston SIP episode models project H97. Houston Advanced Research Center (HARC).

## Meeting Presentations and Conference Proceedings

- Valencia A., Arunachalam S., Isakov V., Naess B., and Serre M. (2020) Improving emissions inputs via mobile measurements to estimate fine-scale black carbon monthly concentrations through geostatistical space-time data fusion. Presented at the *19th Annual Models-3/CMAS Users Conference, Chapel Hill, NC, October 26-30*.
- Valencia A., Serre M., Yang D., and Arunachalam S. (2020) Traffic-related PM<sub>2.5</sub> and NO<sub>2</sub> health risk assessment in the United States: a fine-scale hybrid modeling approach. Presented at the *18th Annual Models-3/CMAS Users Conference, Chapel Hill, NC*.
- Valencia A., Serre M., Yang D., and S A. (2019) Traffic-related PM<sub>2.5</sub> and NO<sub>2</sub> health risk assessment in the United States: a fine-scale hybrid modeling approach. Presented at the *37th International Technical Meeting on Air Pollution Modeling and its Application Conference, Hamburg, Germany*.
- Valencia A., Arunachalam S., Snyder M., Isakov V., and Venkatram A. (2017) Implementation and evaluation of NO<sub>x</sub> to NO<sub>2</sub> conversion in R-LINE – a new dispersion model for road sources. Keynote speaker at the *Colombian Congress and International Conference on Air Quality and Public Health (CASAP) Bucaramanga, Colombia, Aug*.
- Valencia A., Arunachalam S., Akita Y., Serre M., Garcia V., and Isakov V. (2013) Estimating regional background air quality using space/time ordinary kriging to support exposure studies. Presented at the *12th Annual Models-3/CMAS Users Conference, Chapel Hill, NC*.
- Vizuete W., Valencia A., Henderson B., and Jeffries H. (2009) Process analysis techniques to investigate ozone production in regulatory simulations of Houston, TX. Presented at the *Proceedings of the 8th Annual Models-3/CMAS Users Conference, Chapel Hill, NC, October*.