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EDUCATION

2012 - 2015 Ph.D., University of Houston, Atmospheric Science
2009 - 2011 M.S., Federal University of Pelotas, Brazil, Meteorology
2004 - 2008 B.S., Federal University of Pelotas, Brazil, Meteorology

PEER REVIEWED PUBLICATIONS

- 1) Cuchiara G.C., Rappenglück B., Rubio M.A., Lissi E., Gramsch E., Garreaud R.D. Modeling study of biomass burning plumes and their impact on urban air quality; a case study of Santiago de Chile. *Atmos. Env.* 2017 (under review)
- 2) Cuchiara G.C., Rappenglück B. Analysis of a Large-Eddy Simulation of the Planetary Boundary Layer in the Houston-Galveston area, Texas. *Met. And Atm. Physics.* 2017 (under review)
- 3) Cuchiara G.C., Rappenglück B. Single-column model and large eddy simulation of the evening transition in the planetary boundary layer. *Environ. Fluid Mech.* 2017. *Environ Fluid Mech* (2017). [doi:10.1007/s10652-017-9518-z](https://doi.org/10.1007/s10652-017-9518-z)
- 4) Wilmot C.-S. M., Rappenglück B., Li X., Cuchiara G. MM5 v3.6.1 and WRF v3.5.1 model comparison of standard and surface energy variables in the development of the planetary boundary layer. *Geosci. Model Dev.*, 7, 2693-2707, 2014. [doi:10.5194/gmd-7-2693-2014](https://doi.org/10.5194/gmd-7-2693-2014)
- 5) Cuchiara G.C., Li X., Carvalho J., Rappenglück B. Intercomparison of planetary boundary layer parameterization and its impacts on surface ozone formation in the WRF/Chem model for a case study in Houston/Texas, *Atmos. Env.*, v.96, p. 175-185, 2014. [doi:10.1016/j.atmosenv.2014.07.013](https://doi.org/10.1016/j.atmosenv.2014.07.013)
- 6) Pochmann L. S., Alonso M., Carvalho, J. C, Cuchiara G. C. Estudo do impacto das emissões de poluentes na região metropolitana de Porto Alegre – RS. *Ciencia e Natura*, Santa Maria, ISSN:2179-460X, edição especial, p. 308-310, 2013. <http://dx.doi.org/10.5902/2179-460X11649>
- 7) Cuchiara, G.C., Carvalho J. C., Pochmann L. S. Modelagem da poluição fotoquímica por fontes móveis na região metropolitana de Porto Alegre/RS - Brasil. *Ciencia e Natura*, Ed, Suplementar, 2011. <http://cascavel.ufsm.br/revistas/ojs-2.2.2/index.php/cienciaenatura/article/view/9443/5594>
- 8) Carvalho J. C., Degrazia G., Goular A., Cuchiara G. C., Mortarini L. Simulating the characteristic patterns of the dispersion during sunset pbl. *Atmospheric Research*, 2010. [doi:10.1016/j.atmosres.2010.06.009](https://doi.org/10.1016/j.atmosres.2010.06.009).

CONFERENCE PRESENTATION

- 1) Cuchiara G.C., Rappenglück B., Rubio M.A., Lissi E., Gramsch E., Garreaud R.D. Modeling study of biomass burning plumes and their impact on urban air quality; a case study of Santiago de Chile. EGU Joint Assembly, Vienna/Austria, 2017.

- 2) Cuchiara G.C., Rappenglück B. Single-column model and large eddy simulation of the evening transition in the planetary boundary layer. EGU Joint Assembly, Vienna/Austria, 2016.
- 3) Cuchiara G.C., Rappenglück B. Modeling dispersion in a convective decay planetary boundary layer using the wrf large eddy simulation model. University of Houston Student Research Day, 2015
- 4) Cuchiara G.C., Li X., Carvalho J., Rappenglück B. Intercomparison of planetary boundary layer parameterization and its impacts on surface ozone formation in the WRF/Chem model for a case study in Houston/Texas, EGU Joint Assembly, Vienna/Austria, 2015.
- 5) Cuchiara G.C., Li X., Carvalho J., Rappenglück B. Intercomparison of planetary boundary layer parameterization and its impacts on surface ozone formation in the WRF/Chem model for a case study in Houston/Texas, Texas Air Quality Meeting, University of Texas – Austin, 2015.
- 6) Cuchiara G.C., Li X., Carvalho J., Rappenglück B. Intercomparison of planetary boundary layer parameterization and its impacts on surface ozone formation in the WRF/Chem model for a case study in Houston/Texas. University of Houston Student Research Day, 2014.
- 7) Cuchiara, G. C., Carvalho, J. C. Photochemical Pollution Modeling of Ozone at Metropolitan Area of Porto Alegre - RS/Brazil using WRF/Chem. In: 2013 AGU Summer Meeting, Cancun/Mexico, 2013.
- 8) Cuchiara G., Rappenglück B. Intercomparison of planetary boundary layer parameterizations in the WRF Model for a case study in Houston/Texas, American Geophysical Union, Summer Meeting, Cancun/Mexico, 2013.
- 9) Cuchiara, G. C., Carvalho, J. C. Photochemical Pollution Modeling emitted from vehicular source at Porto Alegre Metropolitan Area (RS) - Brazil. In: 2011 AGU Fall Meeting, 2011, San Francisco-USA.
- 10) Cuchiara, G. C., Carvalho, J. C. Photochemical Pollution Modeling emitted from vehicular source at Metropolitan Area of Porto Alegre/RS - Brazil. In: VI Cuban Congress of Meteorology, 2011, Havana-Cuba.
- 11) Cardoso, V. S., Cuchiara, G. C., Ribeiro, L. M., Carvalho, J. C. Modelagem numerica dos precursores de ozonio emitidos por fontes veiculares na regio metropolitana de Porto Alegre. In: Congresso Brasileiro de sensoriamento remoto, Curitiba, Brazil, 2011.
- 12) Cuchiara, G. C., Carvalho, J. C., Rodrigues, B. Modelagem Da Poluicao Fotoquimica na regio Metropolitana de Porto Alegre. In: IV Encontro Sul Brasileiro de Meteorologia, Pelotas, Brazil, 2011.
- 13) Silveira, V. C., Cuchiara, G. C., Macedo, L. R., Carvalho, J. C. Modelagem numerica dos precursores de ozonio emitidos por fontes veiculares na regio metropolitana de Porto Alegre In: IV Encontro Sul Brasileiro de Meteorologia, Pelotas, Brazil, 2011.
- 14) Cuchiara, G. C., Foster, P. R. Analysis the occurrence of Granizo in the Passo Fundo city, a case study. In: XVII Congresso de iniciacao cientifica UFPel, Pelotas, Brazil, 2008.
- 15) Cuchiara, G. C., Wiegand, F., Carvalho, J. C. Estudo das circulacoes locais em Porto Alegre, IV Congresso de iniciacao cientifica FEPAM – Meio ambiente, 2008.
- 16) Cuchiara, G. C., Carvalho. Estudo dos oxidants fotoquimicos na regio metropolitan de Porto Alegre. XVI Semana Academida, 2008.

CONTRIBUTIONS TO BOOKS

- 1) Cuchiara, G. C., Carvalho, J. C. Modelagem da poluição fotoquímica na região metropolitana de Porto Alegre - Rio Grande do Sul. In: Elba Calesso Teixeira, Flavio Wiegand, Marino Tedesco. (Org.). BIODIESEL Impacto Ambiental Agronomico e Atmosferico. 1ed. Porto Alegre: FEPAM, v. 1, p. 96-122, 2012.

MANUSCRIPT REVIEW

Journal of Geophysical Research: Atmospheres
Theoretical and Applied Climatology
Asia-Pacific Journal of Atmospheric Sciences
Air Quality, Atmosphere & Health

ADDITIONAL INFORMATION

- 1) Award NSF support for participation in "Air quality at the Interface: Mega Cities and Adjacent Agroecosystems", La Plata/ Argentina August 8-16, 2012.
- 2) Curricular mandatory internship held at the Center for Information on Environmental Resources and Hydrometeorology (CIRAM/SC - Brazil) in the field of meteorology, from July 28 to August 8, 2008. Responsible Meteorologist: Maria Laura Rodriguez. 90 hours. Final concept: Very good.
- 3) Short Course in atmospheric modeling with BRAMS. (Duration: 40h) National Institute for Space Research, INPE, Sao Jose Dos Campos, Brazil. 2008
- 4) Short Course in Data assimilation. (Duration:16h) Federal University of Pelotas, UFPEL, Pelotas, Brazil. 2008