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# Nicholas Good

Postdoctoral Research Fellow

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## Education

**PhD., Atmospheric Science** The University of Manchester, UK (2009)

**BSc., Physics (First Class)** The University of Manchester, UK (2005)

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## Professional Experience

**Postdoctoral researcher** *Department of Mechanical Engineering*

*2014-present Air pollution exposure and health studies*

*Colorado State University*

**Postdoctoral researcher** *Department of Environmental and Radiological Health*

*2012-2013 Sciences*

*Air pollution exposure and health studies*

*Colorado State University*

**Project manager** *Centre for Atmospheric and Instrumentation Research*

*2011-2012 Inter-disciplinary project management and air quality model validation*

*University of Hertfordshire, UK*

**Postdoctoral researcher** *Laboratoire de météorologie Physique*

*2009-2010 Bio-aerosol studies*

*Université Blaise Pascal, Clermont Ferrand, France*

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## Publications

1. Alfarra, M.R., **N. Good**, K.P. Wyche, J.E. Hamilton, P.S. Monks, A.C. Lewis, and G. McFiggans, *Water uptake is independent of the inferred composition of secondary aerosols derived from multiple biogenic VOCs*. Atmospheric Chemistry and Physics, 2013. **13**(23): p. 11769-11789.
2. Alfarra, M.R., J.F. Hamilton, K.P. Wyche, **N. Good**, M.W. Ward, T. Carr, M.H. Barley, P.S. Monks, M.E. Jenkin, A.C. Lewis, et al., *The effect of photochemical ageing and initial precursor concentration on the composition and hygroscopic properties of beta-caryophyllene secondary organic aerosol*. Atmospheric Chemistry and Physics, 2012. **12**: p. 6417-6436.
3. Allan, J.D., D.O. Topping, **N. Good**, M. Irwin, M. Flynn, P.I. Williams, H. Coe, A.R. Baker, M. Martino, N. Niedermeier, et al., *Composition and properties of atmospheric particles in the eastern Atlantic and impacts on gas phase uptake rates*. Atmospheric Chemistry and Physics, 2009. **9**: p. 9299-9314.
4. Chemel, C., B.E.A. Fisher, X. Kong, X.V. Francis, R.S. Sokhi, **N. Good**, W.J. Collins, and G.A. Folberth, *Application of chemical transport model CMAQ to policy decisions regarding PM<sub>2.5</sub> in the UK*. Atmospheric Environment, 2014. **82**: p. 410-417.
5. Duplissy, J., M. Gysel, M.R. Alfarra, J. Dommen, A. Metzger, A.S.H. Prevot, E. Weingartner, A. Laaksonen, T. Raatikainen, **N. Good**, et al., *Cloud forming potential of secondary organic aerosol under near atmospheric conditions*. Geophysical Research Letters, 2008. **35**: p. L03818.
6. Duplissy, J., M. Gysel, S. Sjogren, N. Meyer, **N. Good**, L. Kammermann, V. Michaud, R. Weigel, S.M. dos Santos, C. Gruening, et al., *Intercomparison study of six HTDMAs: results and recommendations*. Atmospheric Measurement Techniques, 2009. **2**: p. 363-378.
7. **Good, N.**, A. Mölter, J.L. Peel, and J. Volckens, *An accurate filter loading correction is essential for assessing personal exposure to black carbon using an Aethalometer*. J Expo Sci Environ Epidemiol, 2016. **00**: p. 1-8.
8. **Good, N.**, H. Coe, and G. McFiggans, *Instrumentational operation and analytical methodology for the reconciliation of aerosol water uptake under sub- and supersaturated conditions*. Atmospheric Measurement Techniques, 2010. **3**(5): p. 1241-1254.
9. **Good, N.**, A. Mölter, C. Ackerson, A. Bachand, T. Carpenter, M.L. Clark, K.M. Fedak, A. Kayne, K. Koehler, B. Moore, et al., *The Fort Collins Commuter Study: Impact of route type and transport mode on personal exposure to multiple air pollutants*. J Expo Sci Environ Epidemiol, 2016. **26**(4): p. 397-404.
10. **Good, N.**, D.O. Topping, J.D. Allan, M. Flynn, E. Fuentes, M. Irwin, P.I. Williams, H. Coe, and G. McFiggans, *Consistency between parameterisations of aerosol hygroscopicity and CCN*

activity during the *RHaMBLe* discovery cruise. *Atmospheric Chemistry and Physics*, 2010. **10**: p. 3189-3203.

11. **Good, N.**, D.O. Topping, J. Duplissy, M. Gysel, N.K. Meyer, A. Metzger, S.F. Turner, U. Baltensperger, Z. Ristovski, E. Weingartner, et al., *Widening the gap between measurement and modelling of secondary organic aerosol properties?* *Atmospheric Chemistry and Physics*, 2010. **10**: p. 2577-2593.

12. Hamilton, J.F., M. Rami Alfarra, K.P. Wyche, M.W. Ward, A.C. Lewis, G.B. McFiggans, **N. Good**, P.S. Monks, T. Carr, I.R. White, et al., *Investigating the use of secondary organic aerosol as seed particles in simulation chamber experiments.* *Atmospheric Chemistry and Physics*, 2011. **11**(12): p. 5917-5929.

13. Irwin, M., **N. Good**, J. Crosier, T.W. Choularton, and G. McFiggans, *Reconciliation of measurements of hygroscopic growth and critical supersaturation of aerosol particles in central Germany.* *Atmospheric Chemistry and Physics*, 2010. **10**: p. 11737-11752.

14. Lee, J.D., G. McFiggans, J.D. Allan, A.R. Baker, S.M. Ball, A.K. Benton, L.J. Carpenter, R. Commane, B.D. Finley, M. Evans, **et al.**, *Reactive Halogens in the Marine Boundary Layer (RHaMBLe): the tropical North Atlantic experiments.* *Atmospheric Chemistry and Physics*, 2010. **10**: p. 1031-1055.

15. Massling, A., N. Niedermeier, T. Hennig, E.O. Fors, E. Swietlicki, M. Ehn, K. Hämeri, P. Villani, P. Laj, **N. Good**, et al., *Results and recommendations from an intercomparison of six Hygroscopicity-TDMA systems.* *Atmospheric Measurement Techniques*, 2011. **4**(3): p. 485-497.

16. McMeeking, G.R., **N. Good**, M.D. Petters, G. McFiggans, and H. Coe, *Influences on the fraction of hydrophobic and hydrophilic black carbon in the atmosphere.* *Atmospheric Chemistry and Physics*, 2011. **11**(10): p. 5099-5112.

17. Meyer, N.K., J. Duplissy, M. Gysel, A. Metzger, J. Dommen, E. Weingartner, M.R. Alfarra, A.S.H. Prevot, C. Fletcher, **N. Good**, et al., *Analysis of the hygroscopic and volatile properties of ammonium sulphate seeded and unseeded SOA particles.* *Atmospheric Chemistry and Physics*, 2009. **9**: p. 721-732.

18. Paramonov, M., V.M. Kerminen, M. Gysel, P.P. Aalto, M.O. Andreae, E. Asmi, U. Baltensperger, A. Bougiatioti, D. Brus, G.P. Frank, **et al.**, *A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network.* *Atmospheric Chemistry and Physics*, 2015. **15**(21): p. 12211-12229.

19. **Whitehead, J.D.**, M. Irwin, J.D. Allan, N. Good, and G. McFiggans, *A meta-analysis of particle water uptake reconciliation studies.* *Atmospheric Chemistry and Physics*, 2014. **14**(21): p. 11833-11841.