Nicholas Good, BSc, PhD
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SUMMARY/BIOGRAPHY:

Dr. Nicholas Good is an environmental health and exposure scientist who has worked in academia and industry for the past 20+ years. His expertise includes the measurement and modeling of harmful air pollutants. of scientific background and experience. He has worked across academia, government, and industry. He has applied his work in multiple areas including worker health & safety, policy making, instrument testing, and exposure mitigation. He has a PhD in Atmospheric Science from the University of Manchester and a Bachelors of Science in Physics from Manchester University.

EXPERIENCE:

RedSpire LLC — *2025 – Current*
Co-founder

Good Science LLC — *2019 – Current*
Founder

CloudSci LLC — *2023 – Current*
Head of Science / Co-Founder

Colorado State University — *2020 - Present*
Research Scientist III - Civil & Environmental Engineering

Colorado State University
Research Scientist I - Environmental & Radiological Health Sciences — 2017 – 2020

Colorado State University
Postdoctoral Research Fellow - Mechanical Engineering — 2015 – 2017

Colorado State University
Postdoctoral Research Fellow - Environmental & Radiological Health Sciences — 2012 – 2015

The University of Hertfordshire
Project Manager - Department of Physics — 2011 – 2012

CNRS - Université Blaisé Pascal
Postdoctoral Researcher — 2009 – 2010

EDUCATION/DEGREES:

PhD, Atmospheric Science - Manchester University — 2009
BSc, Physics - The University of Manchester — 2005

PROFESSIONAL HONORS/AWARDS:

National Environmental Research Council PhD Scholarship — 2005
University of Manchester Physics Scholarship — 2002

PROFESSIONAL MEMBERSHIPS AND SERVICE TO PROFESSIONAL SOCIETIES:

NASA - Citizen Science Data Working Group
Reviewer - Aerosol Science and Technology
Reviewer - Atmospheric Chemistry & Physics
Reviewer - Atmospheric Environment

Reviewer - Atmospheric Measurement Techniques
Reviewer - Environmental Health Perspectives
Reviewer - Indoor Air
Member - American Society for Aerosol Research
Member - International Society for Environmental Epidemiology
Member - International Society of Exposure Science

SIGNIFICANT PROJECTS:

Atmospheric Processes

Measuring aerosol properties in laboratory simulated environments. Experience operating advanced aerosol instrumentation and analyzing data from facilities designed to simulate atmospheric processes. Contributing to a more complete understanding of the chemical mechanisms and pathways that lead to the formation of aerosols and their associated properties. Led to publications: Alfarra et al. 2008; Meyer et al. 2009; Duplissy et al. 2008; Alfarra et al. 2011; Hamilton et al. 2011; Alfarra et al. 2012.

Field Studies. Experience deploying and operating atmospheric instrumentation across multiple platforms in harsh remote environments. Led to publications: Whitehead et al. 2014; Paramonov et al. 2015; Whitehead et al. 2011; Levin et al. 2021; Megan L. Benka-Coker et al. 2020; Gibson et al. 2025; Irwin et al. 2009; Lee et al. 2010; Irwin et al. 2010.

Biological Aerosols

Infectious Disease Transmission. Designing and running experiments to quantify biological aerosol emissions from humans. Led to publications: Volckens et al. 2022; Tanner et al. 2023; Good et al. 2021.

Biological/Biogenic Particle Properties. Measuring and analyzing data to better understand the formation and properties of particles that originate from biological sources such are bacteria, virus, and vegetation. Led to publications: Amato et al. 2015; McFiggans et al. 2011; Alfarra et al. 2013

Exposure Assessment

Assessment Methods. Designing and evaluating approaches to improve exposure assessment, focusing on methods to predict inhalation of air pollutants. Led to publications: Greenwald et al. 2019; Good et al. 2019.

Holistic Exposure Assessment. Involved in the design, implementation, and analysis of approaches to assess exposure to air pollutants across multiple locations to obtain more complete assessments. Led to publications: Koehler et al. 2013; Good et al. 2013; Koehler et al. 2019.

Exposure & Health Outcomes

Health Markers. Linking markers of exposure and acute health effects associated with air pollutants in clinical studies in controlled laboratory settings and in field trials. Led to the publications: Ethan S. Walker, Clark, et al. 2020; S. Rajkumar et al. 2018; M.L. Benka-Coker et al. 2020; Sarah Rajkumar et al. 2018; Young et al. 2018; Rajkumar et al. 2019; Benka-Coker et al. 2022; Clark et al. 2018.

Cardiovascular Health. Studying the relationships between acute changes in markers of cardiovascular health and exposure to air pollutants. Led to publications: Walker et al. 2018; K. Fedak et al. 2018; 2019; Cole-Hunter et al. 2019; Fedak et al. 2020; Walker et al. 2022; E.S. Walker et al. 2020; Ethan S. Walker, Fedak, et al. 2020; K. M. Fedak, Good, E. S. Walker, et al. 2019; Young, Clark, et al. 2019; Benka-Coker et al. 2018; Cole-Hunter et al. 2021.

Instrument Development

Data & Algorithms. The development of models and data analysis approaches to characterize aerosol properties and mitigate instrument artifacts. Led to publications: Hoskovec et al. 2023; Good, Topping, Allan, et al. 2010; Tryner et al. 2019.

Measurement Techniques. The development and analysis of novel particle measurement techniques. Led to publications: McMeeking et al. 2011; Good, Coe, et al. 2010; Duplissy et al. 2009; Massling et al. 2011.

Mitigation of Exposure

Emissions. Characterization of pollutants emissions from various sources.
Led to the publications: Bilsback et al. 2019; K. M. Fedak, Good, E. Walker, et al. 2019; K. M. Fedak et al. 2018; K. Bilsback et al. 2018; van Zyl et al. 2019; K. R. Bilsback et al. 2018.

Mitigation Strategies. The design, testing, and analysis of approaches to reduce personal exposures to air pollutants. Led to publications: (Good et al. 2018; Young et al. 2022; Slater et al. 2022; Young, Peel, et al. 2019; Young et al. 2022; 2025; Good et al. 2016)

Modelling Air Pollutants

Model Parameterization. Simplification of complex atmospheric processes to facilitate modeling approaches. Led to publications: Good, Topping, Allan, et al. 2010; Good, Topping, Duplissy, et al. 2010.

Policy. Model optimization and applications for policy needs related to national and regional air pollution. Led to publications: Chemel et al. 2014; Abbott et al. 2012; Fraser, Murrells, et al. 2012.

Satellite Validation. The development, development, and analysis of instrumentation to validate satellite products related to air pollution. Led to publications: Cheeseman, Volckens, Ford, Jathar, et al. 2018; Wendt et al. 2019; Cheeseman, Volckens, Ford, Good, et al. 2018.

PEER-REVIEWED PUBLICATIONS

Alfarra, M. R., N. Good, K. P. Wyche, et al. “Water Uptake Is Independent of the Inferred Composition of Secondary Aerosols Derived from Multiple Biogenic VOCs.” *Atmospheric Chemistry and Physics* 13, no. 23 (2013): 11769–89. https://doi.org/10.5194/acp-13-11769-2013.

Alfarra, M. R., J. F. Hamilton, K. P. Wyche, et al. “The Effect of Photochemical Ageing and Initial Precursor Concentration on the Composition and Hygroscopic Properties of β-Caryophyllene Secondary Organic Aerosol.” *Atmospheric Chemistry and Physics* 12, no. 14 (2012): 6417–36. https://doi.org/10.5194/acp-12-6417-2012.

Allan, J. D., D. O. Topping, N. Good, et al. “Composition and Properties of Atmospheric Particles in the Eastern Atlantic and Impacts on Gas Phase Uptake Rates.” *Atmospheric Chemistry and Physics* 9, no. 23 (2009): 9299–314. https://doi.org/10.5194/acp-9-9299-2009.

Benka-Coker, Megan L., Maggie L. Clark, Sarah Rajkumar, et al. “Exposure to Household Air Pollution from Biomass Cookstoves and Levels of Fractional Exhaled Nitric Oxide (FeNO) among Honduran Women.” *International Journal of Environmental Research and Public Health* 15, no. 11 (2018): 2544. https://doi.org/10.3390/ijerph15112544.

Benka-Coker, Megan L., Maggie L. Clark, Sarah Rajkumar, et al. “Household Air Pollution from Wood-Burning Cookstoves and C-Reactive Protein among Women in Rural Honduras.” *International*

Journal of Hygiene and Environmental Health 241 (April 2022): 113949. https://doi.org/10.1016/j.ijheh.2022.113949.

Benka-Coker, Megan L., Jennifer L. Peel, John Volckens, et al. “Kitchen Concentrations of Fine Particulate Matter and Particle Number Concentration in Households Using Biomass Cookstoves in Rural Honduras.” *Environmental Pollution* 258 (March 2020): 113697. https://doi.org/10.1016/j.envpol.2019.113697.

Bilsback, Kelsey, Nicholas Good, Kristen Fedak, et al. “Household Cookstoves: A Comprehensive Assessment of Health-Relevant Emissions.” *ISEE Conference Abstracts* 2017, no. 1 (2018): 663. https://doi.org/10.1289/isee.2017.2017-663.

Bilsback, Kelsey R., Jordyn Dahlke, Kristen M. Fedak, et al. “A Laboratory Assessment of 120 Air Pollutant Emissions from Biomass and Fossil Fuel Cookstoves.” *Environmental Science & Technology* 53, no. 12 (2019): 7114–25. https://doi.org/10.1021/acs.est.8b07019.

Bilsback, Kelsey R., Sarah R. Eilenberg, Nicholas Good, et al. “The Firepower Sweep Test: A Novel Approach to Cookstove Laboratory Testing.” *Indoor Air* 28, no. 6 (2018): 936–49. https://doi.org/10.1111/ina.12497.

Chemel, C., B. E. A. Fisher, X. Kong, et al. “Application of Chemical Transport Model CMAQ to Policy Decisions Regarding PM2.5 in the UK.” *Atmospheric Environment* 82 (January 2014): 410–17. https://doi.org/10.1016/j.atmosenv.2013.10.001.

Cole-Hunter, T, K Fedak, N Good, et al. “Acute Changes in Heart Rate Variability and Cardiac Repolarization Following Controlled Exposure to Cookstove Air Pollution: The Subclinical Tests of Volunteers Exposed to Smoke (STOVES) Study.” *Environmental Epidemiology* 3 (October 2019): 306. https://doi.org/10.1097/01.EE9.0000609336.59567.98.

Cole-Hunter, Tom, Radhika Dhingra, Kristen M. Fedak, et al. “Short-Term Differences in Cardiac Function Following Controlled Exposure to Cookstove Air Pollution: The Subclinical Tests on Volunteers Exposed to Smoke (STOVES) Study.” *Environment International* 146 (January 2021): 106254. https://doi.org/10.1016/j.envint.2020.106254.

Duplissy, J., M. Gysel, M. R. Alfarra, et al. “Cloud Forming Potential of Secondary Organic Aerosol under near Atmospheric Conditions.” *Geophysical Research Letters* 35, no. 3 (2008): 2007GL031075. https://doi.org/10.1029/2007GL031075.

Duplissy, J., M. Gysel, S. Sjogren, et al. “Intercomparison Study of Six HTDMAs: Results and Recommendations.” *Atmospheric Measurement Techniques* 2, no. 2 (2009): 363–78. https://doi.org/10.5194/amt-2-363-2009.

Fedak, K, E Walker, N Good, et al. “Acute Changes in C-Reactive Protein and Lipoproteins Following Controlled Exposures to Cookstove Air Pollution in the Subclinical Tests of Volunteers Exposed to Smoke (SToVES) Study.” *Environmental Epidemiology* 3 (October 2019): 136. https://doi.org/10.1097/01.EE9.0000607248.02292.a2.

Fedak, Kristen M., Nicholas Good, Jordyn Dahlke, et al. “Chemical Composition and Emissions Factors for Cookstove Startup (Ignition) Materials.” *Environmental Science & Technology* 52, no. 16 (2018): 9505–13. https://doi.org/10.1021/acs.est.8b02218.

Fedak, Kristen M., Nicholas Good, Ethan Walker, et al. “An Expert Survey on the Material Types Used to Start Cookstoves.” *Energy for Sustainable Development* 48 (February 2019): 59–66. https://doi.org/10.1016/j.esd.2018.11.001.

Fedak, Kristen M., Nicholas Good, Ethan S. Walker, et al. “Acute Changes in Lung Function Following Controlled Exposure to Cookstove Air Pollution in the Subclinical Tests of Volunteers Exposed to Smoke (STOVES) Study.” *Inhalation Toxicology* 32, no. 3 (2020): 115–23. https://doi.org/10.1080/08958378.2020.1751750.

Fedak, Kristen M., Nicholas Good, Ethan S. Walker, et al. “Acute Effects on Blood Pressure Following Controlled Exposure to Cookstove Air Pollution in the STOVES Study.” *Journal of the American Heart Association* 8, no. 14 (2019): e012246. https://doi.org/10.1161/JAHA.119.012246.

Gibson, Leah D., Ezra J. T. Levin, Ethan Emerson, et al. “Measurement Report: An Investigation of the Spatiotemporal Variability in Aerosols in the Mountainous Terrain of the Upper Colorado River Basin Using SAIL-Net.” *Atmospheric Chemistry and Physics* 25, no. 4 (2025): 2745–62. https://doi.org/10.5194/acp-25-2745-2025.

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* 3, no. 5 (2010): 1241–54. https://doi.org/10.5194/amt-3-1241-2010.

Good, N., D. O. Topping, J. D. Allan, et al. “Consistency between Parameterisations of Aerosol Hygroscopicity and CCN Activity during the RHaMBLe Discovery Cruise.” *Atmospheric Chemistry and Physics* 10, no. 7 (2010): 3189–203. https://doi.org/10.5194/acp-10-3189-2010.

Good, N., D. O. Topping, J. Duplissy, et al. “Widening the Gap between Measurement and Modelling of Secondary Organic Aerosol Properties?” *Atmospheric Chemistry and Physics* 10, no. 6 (2010): 2577–93. https://doi.org/10.5194/acp-10-2577-2010.

Good, Nicholas, Kristen M. Fedak, Dan Goble, et al. “Respiratory Aerosol Emissions from Vocalization: Age and Sex Differences Are Explained by Volume and Exhaled CO2.” *Environmental Science & Technology Letters* 8, no. 12 (2021): 1071–76. https://doi.org/10.1021/acs.estlett.1c00760.

Good, Nicholas, Anna Mölter, Charis Ackerson, et al. “The Fort Collins Commuter Study: Impact of Route Type and Transport Mode on Personal Exposure to Multiple Air Pollutants.” *Journal of Exposure Science & Environmental Epidemiology* 26, no. 4 (2016): 397–404. https://doi.org/10.1038/jes.2015.68.

Good, Nicholas, Anna Mölter, Jennifer L. Peel, and John Volckens. “An Accurate Filter Loading Correction Is Essential for Assessing Personal Exposure to Black Carbon Using an Aethalometer.” *Journal of Exposure Science & Environmental Epidemiology* 27, no. 4 (2017): 409–16. https://doi.org/10.1038/jes.2016.71.

Good, N., T. Carpenter, G. B. Anderson, et al. “Development and Validation of Models to Predict Personal Ventilation Rate for Air Pollution Research.” *Journal of Exposure Science & Environmental Epidemiology* 29, no. 4 (2019): 568–77. https://doi.org/10.1038/s41370-018-0067-4.

Greenwald, Roby, Matthew J. Hayat, Evi Dons, et al. “Estimating Minute Ventilation and Air Pollution Inhaled Dose Using Heart Rate, Breath Frequency, Age, Sex and Forced Vital Capacity: A Pooled-Data Analysis.” *PLOS ONE* 14, no. 7 (2019): e0218673. https://doi.org/10.1371/journal.pone.0218673.

Hamilton, J. F., M. Rami Alfarra, K. P. Wyche, et al. “Investigating the Use of Secondary Organic Aerosol as Seed Particles in Simulation Chamber Experiments.” *Atmospheric Chemistry and Physics* 11, no. 12 (2011): 5917–29. https://doi.org/10.5194/acp-11-5917-2011.

Hoskovec, Lauren, Matthew D. Koslovsky, Kirsten Koehler, et al. “Infinite Hidden Markov Models for Multiple Multivariate Time Series with Missing Data.” *Biometrics* 79, no. 3 (2023): 2592–604. https://doi.org/10.1111/biom.13715.

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* 10, no. 23 (2010): 11737–52. https://doi.org/10.5194/acp-10-11737-2010.

Koehler, Kirsten, Nicholas Good, Ander Wilson, et al. “The Fort Collins Commuter Study: Variability in Personal Exposure to Air Pollutants by Microenvironment.” *Indoor Air* 29, no. 2 (2019): 231–41. https://doi.org/10.1111/ina.12533.

Lee, J. D., G. McFiggans, J. D. Allan, et al. “Reactive Halogens in the Marine Boundary Layer (RHaMBLe): The Tropical North Atlantic Experiments.” *Atmospheric Chemistry and Physics* 10, no. 3 (2010): 1031–55. https://doi.org/10.5194/acp-10-1031-2010.

Massling, A., N. Niedermeier, T. Hennig, et al. “Results and Recommendations from an Intercomparison of Six Hygroscopicity-TDMA Systems.” *Atmospheric Measurement Techniques* 4, no. 3 (2011): 485–97. https://doi.org/10.5194/amt-4-485-2011.

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* 11, no. 10 (2011): 5099–112. https://doi.org/10.5194/acp-11-5099-2011.

Meyer, N. K., J. Duplissy, M. Gysel, et al. “Analysis of the Hygroscopic and Volatile Properties of Ammonium Sulphate Seeded and Unseeded SOA Particles.” *Atmospheric Chemistry and Physics* 9, no. 2 (2009): 721–32. https://doi.org/10.5194/acp-9-721-2009.

Paramonov, M., V.-M. Kerminen, M. Gysel, et al. “A Synthesis of Cloud Condensation Nuclei Counter (CCNC) Measurements within the EUCAARI Network.” *Atmospheric Chemistry and Physics* 15, no. 21 (2015): 12211–29. https://doi.org/10.5194/acp-15-12211-2015.

Rajkumar, S., M. L. Clark, B. N. Young, et al. “Exposure to Household Air Pollution from Biomass-Burning Cookstoves and HbA1c and Diabetic Status among Honduran Women.” *Indoor Air* 28, no. 5 (2018): 768–76. https://doi.org/10.1111/ina.12484.

Rajkumar, Sarah, Bonnie N. Young, Maggie L. Clark, et al. “Household Air Pollution from Biomass-Burning Cookstoves and Metabolic Syndrome, Blood Lipid Concentrations, and Waist Circumference in Honduran Women: A Cross-Sectional Study.” *Environmental Research* 170 (March 2019): 46–55. https://doi.org/10.1016/j.envres.2018.12.010.

Tanner, Ky, Kristen M. Good, Dan Goble, et al. “Large Particle Emissions from Human Vocalization and Playing of Wind Instruments.” *Environmental Science & Technology* 57, no. 41 (2023): 15392–400. https://doi.org/10.1021/acs.est.3c03588.

Tryner, Jessica, Nicholas Good, Ander Wilson, Maggie L. Clark, Jennifer L. Peel, and John Volckens. “Variation in Gravimetric Correction Factors for Nephelometer-Derived Estimates of Personal Exposure to PM2.5.” *Environmental Pollution* 250 (July 2019): 251–61. https://doi.org/10.1016/j.envpol.2019.03.121.

Volckens, John, Kristen M. Good, Dan Goble, et al. “Aerosol Emissions from Wind Instruments: Effects of Performer Age, Sex, Sound Pressure Level, and Bell Covers.” *Scientific Reports* 12, no. 1 (2022): 11303. https://doi.org/10.1038/s41598-022-15530-x.

Walker, Ethan S., Maggie L. Clark, Bonnie N. Young, et al. “Exposure to Household Air Pollution from Biomass Cookstoves and Self-Reported Symptoms among Women in Rural Honduras.” *International Journal of Environmental Health Research* 30, no. 2 (2020): 160–73. https://doi.org/10.1080/09603123.2019.1579304.

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Young, Bonnie N., Jennifer L. Peel, Sarah Rajkumar, et al. “Impact of the Wood-Burning Justa Cookstove on Glycated Hemoglobin (HbA1c): A Stepped-Wedge Randomized Trial in Rural Honduras.” *Environmental Health Perspectives* 133, no. 5 (2025): 057021. https://doi.org/10.1289/EHP15095.

Zyl, Lizette van, Jessica Tryner, Kelsey R. Bilsback, et al. “Effects of Fuel Moisture Content on Emissions from a Rocket-Elbow Cookstove.” *Environmental Science & Technology* 53, no. 8 (2019): 4648–56. https://doi.org/10.1021/acs.est.9b00235.

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