

VALENTINA NOACCO

Water and Environment Engineering Research group
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Employment

- Nov 2017 - present - **NERC Knowledge Exchange Fellow**, University of Bristol
Improving the understanding and consideration of uncertainty in the (re)insurance industry (collaboration with XL Catlin, OASIS LMF).
- Apr – Oct 2017 **Research Associate: Applied Sensitivity**, University of Bristol
Advancing model development and validation in the (re)insurance industry using Global Sensitivity Analysis (collaboration with (re)insurance company XL Catlin).
NERC-funded grant to Professor Thorsten Wagener.

Education

- 2012-2017 **PhD Civil Engineering**; University of Bristol
Investigating long-term drivers and controls on fluvial dissolved organic carbon and nitrate in the UK. NERC and University of Bristol doctoral studentship award.
Supervisors: Dr Nicholas Howden, Professor Thorsten Wagener.
- 2011-2012 **MSc Water and Environmental Management (distinction)**; University of Bristol
Thesis title: *Understanding the spatial heterogeneity of soil carbon on the North Wyke Farm Platform at Rothamsted Research*.
- 2006-2011 **BSc Environmental and Resources Engineering (100/110)**
Thesis title: *Sewage treatment, focusing on sewage sludge and its utilization in agriculture*.

Grants and awards

- 2017 Green Capital Change Maker Award
- 2016 Bristol University Alumni Travel Grant for EGU: £500
- 2015 British Hydrological Society (BHS) Travel Grant for AGU: £500
- 2015 Green Capital Change Maker Gold Award
- 2014 British Hydrological Society (BHS) Travel Grant for EGU: £650
- 2014 Best poster prize for 2nd year-PhD student at Natural Systems and Processes Poster Session, Bristol University
- 2013 BHS 2nd prize for best poster at Peter Wolf Early Career Hydrologists' Event, Imperial College, London
- 2012 Best overall MSc student in the Department of Civil Engineering, Bristol University

Other experience

- 2013-2015 **Teaching assistant** for various undergraduate and master courses in Civil Engineering (University of Bristol)
- 2012 **Internship** at South West Water, Exeter

2011 **Internship** at Regional Environmental Protection Agency, Udine, Italy

Conference presentations

Selected presentations include:

- 2018 **Models to Decisions** (Cambridge, UK) *Overcoming the “valley of death” – Transferring tools and expertise on sensitivity analysis to the (re)insurance sector*
- 2018 **European Geophysical Union General Assembly** (Vienna, Austria) *Overcoming the “valley of death” – Transferring tools and expertise on sensitivity analysis to the (re)insurance sector*
- 2017 **American Geophysical Union Fall Meeting** (New Orleans, US) *How can sensitivity analysis improve the robustness of mathematical models utilized by the re/insurance industry?*
- 2016 **European Geophysical Union General Assembly** (Vienna, Austria) *What drove Dissolved Organic Carbon (DOC) concentration variability in the River Thames (UK) between 1884 and 2014?*
- 2015 **American Geophysical Union Fall Meeting** (San Francisco, US) *How Population Growth and Land-Use Change Increased Fluvial Dissolved Organic Carbon Fluxes over 130 Years in the Thames Basin (UK).*

Publications

Noacco, V., T. Wagener, F. Worrall, T. P. Burt, and N. J. K. Howden (2017), Human impact on long-term organic carbon export to rivers, *J. Geophys. Res. Biogeosci.*, 122, doi:10.1002/2016JG003614.

Noacco, V., T. Wagener, C. Duffy, and N. Howden (2018), Drivers of dissolved organic carbon concentration variability in the River Thames between 1884 and 2013 (under review).

Noacco, V., Wagener, T., Howden, N. (2018) Understanding dominant controls on nitrate export through analysing a process-based model across three temperate catchments (submitted).

Harris, P., Howden, N.J.K., Peukert, S., **Noacco, V.**, Ramezani, K., Tuominen, E., Eludoyin, B., Brazier, R., Shepherd, A., Griffith, B., Orr, R., Murray, P., (2016) Contextualized Geographically Weighted Principal Components Analysis for Investigating Baseline Soils Data on the North Wyke Farm Platform, in: *Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment*. Springer International Publishing, Cham, pp. 651–655. doi:10.1007/978-3-319-18663-4_99

Shepherd, A., Harris, P., Griffith, B., **Noacco, V.**, Ramezani, K., Tuominen, E., Eludoyin, A., Hopkins, A., Collins, R.P., Fraser, M.D., others, (2014) Spatial soil variation on the North Wyke Farm Platform., in: *EGF at 50: The Future of European Grasslands. Proceedings of the 25th General Meeting of the European Grassland Federation, Aberystwyth, Wales, 7-11 September 2014*. pp. 239–241.

Outreach and public engagement

- 2016-2017 **Forest School**, volunteer and ran sustainability projects for years 3-6 students, Bannerman Road Community Academy, Bristol.
- 2013 **Inspire Summer School**, volunteer for summer school for 30 year 11 girls to encourage them to go into STEM, University of Bristol.