

PERSONAL INFORMATION	 m.zamyatina@exeter.ac.uk  m_zamyatina  mzamyatina  mzamyatina.github.io		
PROFESSIONAL EXPERIENCE	Postdoctoral Research Fellow	Apr 2022-now	
	Department of Physics and Astronomy, University of Exeter Exeter, UK <ul style="list-style-type: none">Adapting LFRic to model atmospheres of hot Jupiters		
	Postdoctoral Research Fellow	Sep 2019-Apr 2022	
	Department of Physics and Astronomy, University of Exeter Exeter, UK <ul style="list-style-type: none">Modelling hot Jupiter atmospheric chemistry with the Met Office Unified Model		
EDUCATION	PhD in Environmental Sciences	2015-2020	
	School of Environmental Sciences, University of East Anglia Norwich, UK Supervisors: Prof. Claire Reeves, Dr Paul Griffiths, Dr Marcus Köhler, Dr Mike Newland Thesis: Impacts of C ₁ -C ₃ alkyl nitrates on tropospheric ozone chemistry		
	MSc in Climate Change with Distinction	2014-2015	
	School of Environmental Sciences, University of East Anglia Norwich, UK Supervisor: Prof. Claire Reeves Thesis: Investigation of the relationship between tropospheric ozone production efficiency and carbon bond emissions		
	Specialist Diploma in Meteorology	2009-2014	
	Faculty of Geography, Lomonosov Moscow State University Moscow, Russia Supervisor: Prof. Alexander V. Kislov Thesis: Climatically-induced variations of the Caspian Sea level over the last Millennium		
PUBLICATIONS	<ul style="list-style-type: none">Maria Zamyatina, Eric Hébrard, Benjamin Drummond, Nathan J. Mayne, James Manners, Duncan A. Christie, Pascal Tremblin, David K. Sing, Krisztian Kohary. Observability of signatures of transport-induced chemistry in clear atmospheres of hot gas giant exoplanets (under review in MNRAS).R. J. Ridgway, Maria Zamyatina, N. J. Mayne, J. Manners, F. H. Lambert, M. Braam, B. Drummond, E. Hébrard, P. I. Palmer, K. Kohary. 3D modelling of the impact of stellar activity on tidally-locked terrestrial exoplanets: atmospheric composition & habitability (under review in MNRAS).Marrick Braam, Paul I. Palmer, Leen Decin, Robert J. Ridgway, Maria Zamyatina, Nathan J. Mayne, Denis Sergeev, N. Luke Abraham. Lightning-induced chemistry on tidally-locked Earth-like exoplanets (under review in MNRAS).Duncan A. Christie, Elspeth K. H. Lee, Hamish Innes, Pascal A. Noti, Benjamin Charnay, Thomas J. Fauchez, Nathan J. Mayne, Russell Deitrick, Feng Ding, Jennifer J. Greco, Mark Hammond, Isaac Malsky, Avi Mandell, Emily Rauscher, Michael T. Roman, Denis E. Sergeev, Linda Sohl, Maria E. Steinrueck, Martin Turbet, Eric T. Wolf, Maria Zamyatina, Ludmila Carone. CAMEMBER: A Mini-Neptunes GCM Intercomparison, Protocol Version 1.0. A CUISINES Model Intercomparison Project (under review in PSJ).		
TALKS	Feb 2022	Transport-induced quenching shapes transmission spectra of warm and hot Jupiters Astronomy seminar University of Warwick, virtual (invited)	
	June 2021	Overview of the Met Office Unified Model adapted to simulate exoplanetary atmospheres Ariel consortium meeting virtual	
	Apr, Sep 2021	3D simulations of warm and hot Jupiter atmospheres: the role of 3D mixing in shaping CH ₄ -to-CO conversion pathways Astronomy seminar University of Exeter; UKEXOM virtual; EPSC virtual	
	Mar, Apr, Jun 2019	Impact of C ₁ -C ₃ alkyl nitrate chemistry on tropospheric ozone: box and global model perspectives AMB University of East Anglia; EGU Vienna, Austria; XCS University of Exeter	
	Apr 2017	Adding new chemistry into UM-UKCA Cambridge-EnvEast doctoral alliance symposium Cambridge, UK	
	Sep 2012	Assessment of climatological potential of transboundary air pollution transport in Eastern Siberia and the Russian Far East Air quality management at urban, regional and global scales 4th international symposium/IUAPPA regional conference Istanbul, Turkey	

POSTERS	Sep 2022	Applying known chemical kinetics data to model atmospheres of extrasolar planets iCACGP-IGAC conference Manchester, UK	
	Sep 2021	Local and global impacts of C ₁ -C ₃ alkyl nitrate photochemistry and emissions on tropospheric ozone IGAC conference virtual	
	Sep 2018	Impact of alkyl nitrate chemistry on tropospheric ozone iCACGP-IGAC conference Takamatsu, Japan	
	Mar, Apr 2018	Impact of C ₁ -C ₅ alkyl nitrate chemistry on tropospheric ozone - a box modelling study Cambridge-EnvEast doctoral alliance symposium Cambridge, UK; EGU Vienna, Austria	
PROCEEDINGS		<ul style="list-style-type: none"> Gromov S.A., Gromov S.S., Zamyatina M., Trifonova-Yakovleva A.M. 2013. First-order evaluation of transboundary pollution fluxes in areas of EANET stations in Eastern Siberia and the Russian Far East. <i>EANET Science Bulletin</i>, 3:195-203. Sergeev D., Zamyatina M., Stepanenko V. 2013. Thermal regime features of Kronotsky lake (in Russian). <i>Kronotsky State Natural Biosphere Reserve Proceedings</i>, 3: 29-41. 	
AWARDS	2022	EPSRC vacation internship (for 3 interns)	12893.55£
	2022	Jackson-Grime-Davies (JGD) research internship (for 1 intern)	2428.71£
	2021	Early Career Scientist poster prize & travel grant IGAC conference virtual	1227.70£
	2015-2019	Lord Zuckerman studentship School of Environmental Sciences, University of East Anglia Norwich, UK	112269.50£
	2014-2015	Simon Wharmby postgraduate scholarship School of Environmental Sciences, University of East Anglia Norwich, UK	3000.00£
	2012	World Meteorological Organization travel grant	1154.10£
TEACHING	Nov 2020-Dec 2022	Co-supervisor of a PhD student – Robert J. Ridgway	
	Jun-Aug 2022	Primary supervisor of summer interns – Harry Baskett, Ben Moore, James McDermott (EPSRC-funded) – Graig Lils (JGD-funded)	
	Jul 2022	Lecturer International sustainability summer school University of Exeter, Exeter, UK	
	Sep 2021-Feb 2022	Associate Tutor Modules: Experimental science, Frontiers in science University of Exeter Exeter, UK	
	Jan 2018	Instructor Training course “Introduction to Python in Environmental Sciences” University of East Anglia Norwich, UK	
	2015-2018	Associate Tutor Modules: Numerical skills for scientists, Atmospheric chemistry and global change, Atmospheric composition (measurements and modelling), Atmosphere & oceans I University of East Anglia Norwich, UK	
	2-4 Mar 2020	JWST proposal planning workshop	
	21-22 Apr 2016	NAME workshop <ul style="list-style-type: none"> introduction to the Met Office Numerical Atmospheric dispersion Modelling Environment (NAME), installing and running the model locally or on JASMIN super-computer 	
VOCATIONAL TRAINING	4-8 Jan 2016	Introduction to UKCA <ul style="list-style-type: none"> introduction to the main components of the Met Office United Kingdom Chemistry and Aerosols (UKCA) model, including exercises on adaptation of the model to various research purposes, running it and solving common problems 	
	16-18 Dec 2015	Introduction to Unified Model <ul style="list-style-type: none"> introduction to the Met Office Unified Model (UM), providing theoretical and practical experience of setting up experiments and running the model 	
	23-27 Nov 2015	Introduction to Atmospheric Science <ul style="list-style-type: none"> introduction to key concepts in atmospheric science, covering such topics as atmospheric dynamics, composition of the atmosphere and climate change 	
	2015-2019	EnvEast Doctoral Training Programme	
	Sep-Nov 2011	Global Climate Change course	

VOCATIONAL EXPERIENCE	Aug-Sep 2013	Weather Forecaster Sheremetyevo International Airport Moscow, Russia
	Jun-Jul 2013	Technician Department of Actinometry, Meteorological Observatory Lomonosov Moscow State University Moscow, Russia
INTERNSHIPS	Jun-Jul 2013	Department of Actinometry, Meteorological Observatory Lomonosov Moscow State University Moscow, Russia Supervisor: Senior Research Scientist Olga A. Shilovtseva <ul style="list-style-type: none"> ▪ indoor solar radiation measurements
	Jun-Jul 2012	Institute of Global Climate and Ecology Moscow, Russia Supervisor: Head of laboratory Sergey A. Gromov <ul style="list-style-type: none"> ▪ analysis of the Acid Deposition Monitoring Network in East Asia (EANET) data
ADMIN	2015-2019	Maintainer of @AtmosChemUEA Twitter account
	Sep 2017-Jun 2018	Co-organiser of Atmospheric and Marine Biogeochemistry (AMB) seminars University of East Anglia Norwich, UK