

**CURRICULUM VITAE**  
Miroslaw Andrejczuk  
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**UNIVERSITY EDUCATION**

Ph.D., University of Warsaw, Poland, 2004 (Physics)  
M.Sc., University of Warsaw, Poland, 1996 (Geophysics/major Atmospheric Physics)

**SKILLS**

Programming: FORTRAN, Python, MPI, OpenMP, OpenACC, CUDA FORTRAN, Matlab, C, IDL, R;  
Foreign languages: Polish (native), English – spoken and written, Russian - basic spoken and written;

**RECENT PROJECTS**

From Performance Testing to Model Improvement: NEMO case study -  
[http://forge.ipsl.jussieu.fr/nemo/attachment/wiki/user/andmirek/NEMO\\_IO\\_DIAGN.pdf](http://forge.ipsl.jussieu.fr/nemo/attachment/wiki/user/andmirek/NEMO_IO_DIAGN.pdf)

**WORK EXPERIENCE**

2015 - Present **Met Office, United Kingdom**

Senior Scientific Software Engineer | Oct 2016 - Present

Scientific Software Engineer | Apr.2015 – Sept 2016

Dec 2011 – Nov 2014 **University of Oxford, Oxford, United Kingdom**

Senior Research Computing Associate

Oct.2008 – Nov 2011 **University of Leeds, Leeds, United Kingdom**

Postdoctoral Research Associate |

Feb.2005 – Jul.2008 **Los Alamos National Laboratory, Los Alamos, NM, USA**

Postdoctoral Research Associate

Mar.2004 – Jan 2005 **SUPPORT LLC, Warsaw, Poland**

Analyst |

Dec 2001 – Aug 2003 **Institute of Meteorology and Water Management, Warsaw, Poland**

Specialist

**PEER REVIEWED PUBLICATIONS**

A. A. Sellar, et. al 2020: Implementation of UK Earth system models for CMIP6., *Journal of Advances in Modeling Earth Systems (JAMES)*, **12**, e2019MS001972

**M. Andrejczuk**, A. Gadian and A. Blyth, 2014: Numerical simulations of stratocumulus cloud response to aerosol perturbation, *Atmos. Res.*, **140–141**, 76–84

Twohy C. H., J. R. Anderson, D. W. Toohey, **M. Andrejczuk**, A. Adams, M. Lytle, R. C. George, R. Wood, P. Saide, S. Spak, P. Zuidema, and D. Leon, 2013: Impacts of aerosol particles on the microphysical and radiative properties of stratocumulus clouds over the Southeast Pacific ocean. *Atmos. Chem. Phys.*, **13**, 2541-2562

**Andrejczuk, M.**, W. W. Grabowski, A. Gadian, and R. Burton, 2012: Limited-area modelling of stratocumulus over South-Eastern Pacific, *Atmos. Chem. Phys.*, **12**, 3511-3526.

Grabowski, W. W., **M. Andrejczuk** and L.-P. Wang 2011: Representation of Activation and Early Growth of Cloud Droplets in Bin Microphysics Models. *Atmos. Res.*, **99**, 290-301.

**Andrejczuk, M.**, W. W. Grabowski, J. M. Reisner, A. Gadian 2010: Cloud-aerosol interactions for boundary-layer stratocumulus in the Lagrangian Cloud Model, *J. Geophys. Res.*, **115**, D22214, doi:10.1029/2010JD014248.

**Andrejczuk M.**, W. W. Grabowski, Sz. P. Malinowski and P. K. Smolarkiewicz, 2009: Numerical simulation of cloud/clear-air interfacial mixing: Homogeneous versus inhomogeneous mixing, *J. Atmos. Sci.*, **66**, 2493–2500.

Malinowski Sz. P, **Andrejczuk M.**, Grabowski W. W., Korczyk P., Kowalewski T. K. and P. K. Smolarkiewicz, 2008: Laboratory and modeling studies of cloud-clear air interfacial mixing: anisotropy of small-scale turbulence due to evaporative cooling, *New J. Phys.*, **0** (2008) 075020 (15pp).

**Andrejczuk, M.**, J. M. Reisner, B. Henson, M K. Dubey, and C. A. Jeffery (2008), The potential impacts of pollution on a nondrizzling stratus deck: Does aerosol number matter more than type?, *J Geophys. Res.*, **113**, D19204, doi:0.1029/2007JD009445.

Jeffery, C. A., J. M. Reisner and **M. Andrejczuk**, 2006: Another look at stochastic condensation in clouds: Exact solutions, Fokker-Planck approximations and adiabatic evolution, *J. Atmos. Sci.*, **64**, 3949– 3969.

**Andrejczuk M.**, W. W. Grabowski, Sz. P. Malinowski and P. K. Smolarkiewicz, 2006: Numerical simulation of cloud/clear-air interfacial mixing: Effects on cloud microphysics, *J. Atmos. Sci.*, **63**, 3204–3225.

**Andrejczuk M.**, W. W. Grabowski, Sz. P. Malinowski and P. K. Smolarkiewicz, 2004: Numerical simulation of cloud/clear-air interfacial mixing, *J. Atmos. Sci.* **61**, 1726-1739.

**Andrejczuk M.**, St. Moszkowicz, K. E. Haman and T. Szoplik, 2003: Radar-echo tracking by use of invariant moments, *Appl. Opt.* **42**, 5891-5896.

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