

CURRICULUM VITAE

Name: Eleni Katragkou
Working position Lecturer
Working address: Department of Meteorology and Climatology
Faculty of Sciences
Aristotle University of Thessaloniki
54124, Thessaloniki, Greece
Telephone: +30 2310 998307
FAX: +30 2310 995392
e-mail: katragou@auth.gr

EDUCATION:

2003: PhD in Natural Sciences, Heidelberg University, Germany (magna cum laude)
2000: MSc in Environmental Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece (9.56/10)
1998: BSc in Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece (8.09/10)

EMPLOYMENT:

01/2014: Appointed Lecturer in the Department of Meteorology and Climatology, Aristotle University of Thessaloniki, Greece
06/2010: Elected Lecturer in the Department of Meteorology and Climatology, Aristotle University of Thessaloniki, Greece
06/2005-12/2010: Research Associate, Laboratory of Atmospheric Physics, Aristotle University of Thessaloniki, Greece
01/2005-05/2005: Research Fellow, Max Planck Institute for Meteorology, Hamburg, Germany
08/2004-12/2004: Research Fellow, Dept. of Physics and Atmospheric Science, Dalhousie University, Halifax, Canada
12/2003-05/2004: Post Doc, Max Planck Institute of Nuclear Physics, Department of Atmospheric Physics, Heidelberg, Germany

FOREIGN LANGUAGES:

English: Fluent (Cambridge Certificate of Proficiency in English)
German: Fluent (Grosses Deutsches Sprachdiplom, Goethe Institut)
Spanish: Intermediate (Nivel Intermedio, DELE, Instituto Cervantes)

AWARDS/FELLOWSHIPS:

11/2012: L'oreal-UNESCO national prize for Women in Science 2012

12/2010: Scholarship for post-doctoral research by the Research committee of Aristotle University of Thessaloniki

05/2009: Young researcher award, 1st price from EURASAP (European Association for the Science of Air) for presentation of the work: "Tropospheric ozone in regional climate air quality simulations over Europe: Future climate and sensitivity analysis" at the 30th NATO/SPS International Technical Meeting on Air Pollution Modelling and its Application, 18-22/05/2009, San Francisco, USA

05/2008: Young researcher award, 1st price from Hellenic Meteorological Society for presentation of the work: "Tropospheric Ozone over Europe: An air quality model evaluation for the period 1990-2001" at the IX Conference of Meteorology-Climatology and Atmospheric Physics, 28-31 May, 2008, Thessaloniki, Greece.

01/2005-03/2005: Research Fellowship, Max Planck Institute in Hamburg, Germany

08/2004-12/2004: Research Fellowship, Dalhousie University, Halifax, Canada

1999-2000: Award for excellence for postgraduate studies, National Unit of European Programs

1995-1996: Award for excellence for undergraduate studies, National Unit of European Programs

PUBLICATIONS:

1. **Katragkou E.**, S. Wilhelm, F. Arnold, C. Wilson, First gaseous sulfur (VI) measurements in the simulated internal flow of an aircraft gas turbine engine during project PartEmis, *Geophysical Research Letters*, 31, L022117, doi: 10.1029/2003GL018231, 2004.
2. Sorokin A., **E. Katragkou**, F. Arnold, R. Busen, U. Schumann, Gaseous SO₃ and H₂SO₄ in the exhaust of an aircraft gas turbine engine: Measurements by CIMS and implications for fuel sulfur conversion to sulfur (VI) and conversion of SO₃ to H₂SO₄, *Atmospheric Environment*, 38, 449 – 456, 2004.
3. Petzold A, M Fiebig, L Fritzsche, C Stein, U Schumann, CW Wilson, CD Hurley, F Arnold, **E Katragkou**, U Baltensperger, M Gysel, S Nyeki, R Hitznerberger, H Giebl, KJ. Hughes, R Kurtenbach, P Wiesen, P Madden, H Puxbaum, S Vrchoticky, C Wahl, Particle emissions from aircraft engines – a survey of the European project PartEmis, *Meteorologische Zeitschrift*, 14, (4) 465-476, 2005.
4. Zanis P, **E. Katragkou**, K. Markakis, I. Lysaridis, A. Poupkou, D. Melas, M. Kanakidou, B. Psiloglou, E. Gerasopoulos, C. Zerefos, S. Karathanasis, Effects on surface atmospheric photo-oxidants over Greece during the total solar eclipse event of 29 March 2006, *Atmospheric Chemistry and Physics*, 7, pp. 6061-6073, 2007
5. Amiridis V., D. Melas, D.S. Balis, A. Papayannis, D. Founda, **E. Katragkou**, R. Mamouri, E. Giannakaki, S. Kazadzis, E. Gerasopoulos and C. Zerefos, Aerosol Lidar observations and model calculations of the Planetary Boundary Layer evolution over Greece, during the solar eclipse of 2006, *Atmospheric Chemistry and Physics*, 7, pp. 6181-6189, 2007
6. Krueger, B.C., **E. Katragkou**, I. Tegoulas, P. Zanis, D. Melas, E. Coppola, S. A. Rauscher, P. Huszar, T. Halenka. Regional decadal photochemical model calculations for Europe concerning ozone levels in a changing climate. *Időjárás - Quarterly Journal of the Hungarian Meteorological Service*, 112, 3-4, pp. 285-300, 2008

7. **Katragkou E.**, S. Kazadzis, V. Amiridis, V. Papaioannou, S. Karathanasis, D. Melas, PM10 regional transport pathways in Thessaloniki, Greece, *Atmospheric Environment.*, *43*, 1079-1085, doi:10.1016/j.atmosenv.2008.11.021, 2009
8. Zyrichidou I., M. E. Koukouli, D. S. Balis, **E. Katragkou**, D. Melas, A. Poupkou, I. Kioutsioukis, R. van der A, F. K. Boersma, M. van Roozendaal, A. Richter, Satellite observations and model simulations of tropospheric NO₂ columns over South-eastern Europe, *Atmospheric Chemistry and Physics*, *9*, 6119-6134, 2009
9. Ordóñez C., N. Elguindi, O. Stein, V. Huijnen, J. Flemming, A. Inness, H. Flentje, **E. Katragkou**, P. Moinat, V-H. Peuch, A. Segers, V. Thouret, M. van Weele, C. S. Zerefos, J-P. Cammas, and M. G. Schultz, Global model simulations of air pollution during the 2003 European heat wave, *Atmospheric Chemistry and Physics*, *10*, 789–815, 2010
10. Papanastasiou D.K., A. Poupkou, **E. Katragkou**, V. Amiridis, D. Melas, N. Mihalopoulos, S. Basart, C. Perez, J.M. Baldasano, An assessment of the efficiency of dust regional modelling to predict Saharan dust transport episodes, *Advances in Meteorology*, doi: 10.1155/2010/154368, 2010.
11. **Katragkou E.**, P. Zanis, I. Tegoulis, D. Melas, I. Kioutsioukis, B. C. Krüger, P. Huszar, T. Halenka, S. Rauscher, Decadal regional air quality simulations over Europe in present climate: near surface ozone sensitivity to external meteorological forcing, *Atmospheric Chemistry and Physics*, *10*, 11805-11821, 2010
12. Syrakov D., V. Spiridonov, M. Prodanova, A. Bogatchev, N. Miloshev, K. Ganev, G. Jordano, **E. Katragkou**, D. Melas, A. Poupkou, K. Markakis, R. San Jose, J.L. Perez, A system for assessment of climatic air pollution levels in Bulgaria. Description and validation, *International Journal of Environment and Pollution*, *46*, Nos. 1/2, 2011
13. Huszar P., K. Juda-Rezler, T. Halenka, H. Chervenkov, D. Syrakov, B. C. Krueger, P. Zanis, D. Melas, **E. Katragkou**, M. Reizer, W. Trapp, M. Belda, Effects of climate change on ozone and particulate matter over Central and Eastern Europe, *Climate Research*, *50*: 51–68, doi: 10.3354/cr01036, 2011
14. **Katragkou E.**, P. Zanis, I. Kioutsioukis, I. Tegoulis, D. Melas, B.C. Krüger, E. Coppola, Future climate change impacts on summer surface ozone from regional climate-air quality simulations over Europe, *Journal of Geophysical Research*, *116*, D22307, doi:10.1029/2011JD015899, 2011
15. Zanis P., **E. Katragkou**, I. Tegoulis, A. Poupkou, D. Melas, Evaluation of near surface ozone in air quality simulations forced by a regional climate model over Europe for the period 1991-2000, *Atmospheric Environment*, *45* (36), pp. 6489-6500, 2011
16. Juda-Rezler K., M. Reizer, P. Huszar, B. C. Krüger, P. Zanis, D. Syrakov, **E. Katragkou**, W. Trapp, D. Melas, H. Chervenkov, I. Tegoulis, T. Halenka, Modelling the effects of climate change on air quality over Central and Eastern Europe: Concept, evaluation and projections, *Climate Research*, *53*: 179-203, doi: 10.3354/cr01072, 2012.
17. Zyrichidou I., M.E. Koukouli, D. Balis, I. Kioutsioukis, A. Poupkou, **E. Katragkou**, D. Melas, F. Boersma, M. van Roozendaal, Evaluation of high resolution simulated and OMI retrieved tropospheric NO₂ column densities over South-Eastern Europe, *Atmospheric Research*, *122* 55-56, 2013.
18. Markakis, K., **E. Katragkou**, A. Poupkou, D. Melas, MOSESS: A New Emission Model for the Compilation of Model-Ready Emission Inventories-Application in a Coal Mining Area in Northern Greece, *Environmental Modeling and Assessment*, pp. 1-13, 2013
19. Vautard R., A. Gobiet, D. Jacob, M. Belda, A. Colette, M. Déqué, J. Fernández, M. García-Díez, K. Goergen, I. Güttler, T. Halenka, T. Karacostas, **E. Katragkou**, K. Keuler, S. Kotlarski, S. Mayer, G. Nikulin, M. Patarčić, S. Sobolowski, M. Suklitsch, C. Teichmann, K. Warrach-Sagi, V. Wulfmeyer, P. Yiou, The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project, *Climate Dynamics*, *41* (9-10), pp. 2555-2575, 2013

20. Akritidis D., P. Zanis, **E. Katragkou**, M. Schultz, I. Tegoulas, A. Poupkou, K. Markakis, I. Pytharoulis, T. Karacostas, Evaluating the impact of chemical boundary conditions on near surface ozone in regional climate -air quality simulations over Europe, *Atmospheric Research*, 134, pp. 116-130, 2013
21. Anagnostopoulou, C., Zanis, P., **Katragkou, E.**, Tegoulas, I., Tolika, K., Recent past and future patterns of the Etesian winds based on regional scale climate model simulations, *Climate Dynamics*, 42 (7-8), pp.1819, 2014

PARTICIPATION IN RESEARCH PROJECTS:

1. H2020, Monitoring Atmospheric Composition and Climate (Phase 3) (**MACC-III**), 2014-15.
2. EC, FP7, The People Programme, International Research Staff Exchange Scheme, Regional climate-air quality interactions (**REQUA**), 2014-2017.
3. Ίδρυμα Κρατικών Υποτροφιών, Προώθηση των ανταλλαγών και της επιστημονικής συνεργασίας Ελλάδας-Γερμανίας, Operational Air Quality Forecasting in Greece and Germany-PAIR (**IKYDA 2014**), 2014-2015
4. NSRF 2007-2013, An Innovative and Integrated Conceptual Model to Mitigate the Impact of Climate Change on Drought: Potentiality and Applicability of a Precipitation Enhancement Project in Thessaly (**DAFNE**) 2013-2015
5. NSRF 2007-2013, A pilot system for the development and delivery of daily wave and circulation forecast for public and emergency use in the Thermaikos Gulf (**WaveForUs**) (<http://wave4us.web.auth.gr>) 2013-2015
6. State Scholarships Foundation, Bilateral cooperation Greece-Germany (**IKYDA 2012**), The Etesian wind system over the Aegean Sea: an assessment of wind resources in the area for present and future climate (ETESIANS), 2012-2013
7. EC, FP7, Monitoring Atmospheric Composition and Climate (**MACC-II**) 2012-2015 (<http://www.gmes-atmosphere.eu/>)
8. National Strategic Reference Framework (NSRF) 2007-2013, Development of a Geographical Information System for Climate information (**Geoklima**) (<http://www.geoclima.eu/>) 2011-2012
9. EC, FP7, Promote Air Quality Services integrating Observations – Development Of Basic Localised Information for Europe” (**PASODOBLE**)
10. EC, FP7, Monitoring Atmospheric Composition and Climate (**MACC**) 2009-2010
11. State Scholarships Foundation, Bilateral cooperation Greece-Germany (**IKYDA 2008**): Coupling of the global chemical model ECHAM5.HAM0Z with the regional chemical model CAMx, 2008
12. EC, FP6, Global and Regional Earth-System Monitoring using Satellite and in-situ data, (**GEMS**) 2005-2009
13. EC, FP6, Central and Eastern Europe Climate Change Impact and Vulnerability Assessment, (**CECILIA**) 2006-2009
14. Greek Ministry of Education, Lifelong Learning and Religious Affairs, **PYTHAGORAS II**, Assessment of the climatic radiative budget over the Mediterranean and South eastern Europe with emphasis over Greece, 2005-2006
15. ESA, Protocol monitoring for the GMES (Global Monitoring for Environment and Security) Service Element: Atmosphere (**PROMOTE**) 2006 -2009
16. Bayerisches Staatsministerium für Landesentwicklung und Umweltfragen, Reactive Nitrogen Experiment (**SCAVEX**) 2001-2003
17. EC, FP5, Measurement and predictions of the emission of aerosols and gaseous precursors from gas turbine engines (**PARTEMIS**) 2000-2003
18. EC, FP5, Sustainable Urban Transportation (**SUTRA**) 2000-2003.