

PERSONAL INFORMATION

Konstantina (Nadia) Politi

 Kosti Palama 5, 15126 Athens (Greece)

 6936580311

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Sex Female | Date of birth 28/01/1984 | Nationality Greek

EDUCATION AND TRAINING

02/2015–Present **PhD Candidate in climate simulations**
National and Kapodistrian University of Athens, School of Science, Faculty of Geology and Geo-environment (Greece)

10/2007–03/2010 **MSc in Prevention and Management of Natural Disasters**
National and Kapodistrian University of Athens, School of Science, Faculty of Geology and Geo-environment (Greece)

09/2001–07/2007 **BSc (honours) in Physics (specialization in environment-meteorology)**
National and Kapodistrian University of Athens, School of Science, Faculty of Physics

Graduate School

Greek-French High School “Saint-Joseph”, Athens (Greece)

WORK EXPERIENCE

10/2011–02/2013 **Research Associate**
ATHENA Research and Innovation Center, Space Programmes Unit (SPU), Athens (Greece)

05/2013–Present **Research Associate**
Environmental Research Laboratory (EREL), Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, National Center for Scientific Research Demokritos, Athens (Greece)

PERSONAL SKILLS

Mother tongue(s) Greek

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Level 1 Certificate in English (University of Gambrigde)					
French	C1	C1	B2	B2	C1
Diplome De Langue et Litterature Francaises (Sorbonne II)					
Spanish	B1	B2	B2	B2	B2
DELE - Diploma Básico de Español (D.B.E.) - Nivel Intermedio B2					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

- Communication skills**
- Cooperation skills
 - Easy adjustment in multi-disciplinary teams
 - Communication skills

- Organisational / managerial skills**
- Well organized
 - Good managerial skills
 - Initiative

- Job-related skills**
- High resolution climate simulations with WRF model from reanalysis and general circulation model data.
 - Dynamical downscaling with WRF model.
 - Statistical and Extreme value analysis, post-processing of climate data and calculation of climate indices using R and bash programming.
 - Risk assessment for climate change, natural disasters (fire risk, meteorological risk, extreme weather events).
 - Meteorology

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Basic user	Independent user	Basic user

Digital skills - Self-assessment grid

- Knowledge and programming skills in R, Bash, GIS ArcMap, IDL
- Using the computer and managing files, Word processing, Excel Spreadsheets, PowerPoint Presentations
- Experience on Operating systems interfaces (e.g. Unix-Linux, Windows) and HPC environments (e.g. National HPC facility - ARIS - under project ID HRCOG pr004020).

ADDITIONAL INFORMATION

Publications N.Politi, P.T.Nastos, A.Sfetsos, D.Vlachogiannis, N.R.Dalezios, Evaluation of the AWR-WRF model configuration at high resolution over the domain of Greece, Atmos. Res. (2017), doi.org/10.1016/j.atmosres.2017.10.019

N. Politi, P.T. Nastos, A. Sfetsos, D. Vlachogiannis, N.R. Dalezios, N. Gounaris, M.R. Cardoso and M.M.P. Soares, "Comparison and validation of WRF Model Physics parameterizations over the Domain of Greece", T.S. Karakostas et al. (eds.), Springer Atmospheric Science 2017, In book: Perspectives on Atmospheric Sciences, pp.55-61, DOI: 10.1007/978-3-319-35095-0_8

Nastos, P.T., Politi N., Kapsomenakis J., Spatial and temporal variability of the Aridity Index in Greece, Atmos. Res. (2011), doi:10.1016/j.atmosres.2011.06.017

Conferences

Markos P Mylonas, Kostas C Douvis, Iliana D Polychroni, Nadia Politi, and Panagiotis T Nastos, Sensitivity analysis on a Mediterranean tropical - like cyclone over southwestern Greece, Vienna, EGU 8–13 April 2018.

Markos P Mylonas, Kostas C Douvis, Iliana D Polychroni, Nadia Politi, and Panagiotis T Nastos, Ensemble forecasting and analysis of "Cleopatra" medicanne by using AR-WRF model, Budapest, European Conference for Applied Meteorology and Climatology , 3–7 September 2018.(upcoming)

Kostas C. Douvis, Nadia Politi, Markos P. Mylonas, Iliana D. Polychroni and Panagiotis T. Nastos, WRF forecasting capability of a Tropical-like Cyclone in the Ionian Sea, Medclivar Conference, 18-21 September 2018. (upcoming)

Nadia Politi, Athanasios Sfetsos, Diamando Vlachogiannis and Panagiotis Nastos, Sensitivity of WRF model initialization for regional climate dynamical downscaling in the domain of Greece, October 15-17, Alexandroupolis, International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2018. (upcoming)

Theodoros Katopodis, Nadia Politi, Nikos Gounaris, Stelios Karozis, Thanasis Sfetsos and John Kaldellis, Developing a wind atlas for Greece under future climate scenarios, October 15-17, Alexandroupolis, International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2018. (upcoming)

Mylonas M.P., Douvis K.C., Polychroni I.D., Politi N. and Nastos P.T., WRF Short Range Ensemble Forecasting on a Tropical – like Cyclone event, October 15-17, Alexandroupolis, International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2018. (upcoming)

A. Sfetsos, N. Politi, N. Gounaris, S. N Karozis, "The development of climate services from high resolution seasonal prediction model. Examples from case studies in Greece", Zagreb, Croatia, 6th International Conference on Meteorology and Climatology of the Mediterranean & Challenges in Meteorology 5 (MetMed), February 20 - 22, 2017.

A. Sfetsos, D. Vlachogiannis, I. Guettler, M. Perčec Tadić, K. Cindrić Kalin, N. Politi, The role of climate data in assessing critical infrastructure resilience to climate change", Zagreb, Croatia, 6th International Conference on Meteorology and Climatology of the Mediterranean & Challenges in Meteorology 5 (MetMed), February 20 - 22, 2017.

A. Sfetsos, N. Politi, N. Gounaris, S. N Karozis, D. Vlachogiannis, "Investigation of the AWR-WRF model configuration at high resolution over the domain of Greece", Zagreb, Croatia, 6th International Conference on Meteorology and Climatology of the Mediterranean & Challenges in Meteorology 5 (MetMed), February 20 - 22, 2017.

Nadia Politi, Panagiotis T. Nastos, Athanasios Sfetsos, Diamando Vlachogiannis, Nikolaos Gounaris, Pedro M.M. Soares and Rita M. Cardoso, "Comparison and validation of WRF Model Physics parameterizations over the Domain of Greece", Thessaloniki, International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP 2016.

Politi N., Nastos P. T., Sfetsos A., Vlachogiannis D., Dalezios N. R., Gounaris N., Kapsomenakis J. "Evaluation of high resolution dynamical downscaling over Greece", Athens, Greece, MedCLIVAR CONF, 26-30 September 2016.

Mita C., Sfetsos A., Gounaris N., Vlachogiannis D., Karozis S., Politi N., Marinaki A., Konstantara M., Zeini K., Investigation of extreme precipitation in Greece. Can this phenomenon be attributed to atmospheric rivers?, Heraklion, COMECAP 2014

Sfetsos A., Vlachogiannis D., Politi N., Demertzi A., Gounaris N., Papadopoulos A., Karozis S.,

Emmanouil G., Eleftheriadou A., Moustakidis N., Varela V., Environmental Research Laboratory, INRASTES, NCSR "Demokritos", Assessing climate change impacts in Greece through localized impact assessment models, Istanbul, MESAEP 2013

Πολίτη Ν., Νάστος Π., Δούβης Κ., «Χωρική και χρονική μεταβλητότητα του δείκτη ξηρότητας (aridity index) στην Ελλάδα», 9ο Πανελλήνιο Γεωγραφικό Συνέδριο. Αθήνα, 4-6 Νοεμβρίου 2010, Χαροκόπειο Πανεπιστήμιο, Τμήμα Γεωγραφίας.

Seminars

Distance Learning Course 5 – 9 October Workshop in Florence, Italy 19 – 23 October 2015

International Training course on Seasonal Forecasts and Water Management in the Mediterranean Basin: Integrated Approach, WMO Regional Training Center IBIMET-CNR, Firenze, Italy.

Secondment April 2015

Set up WRF model for a climate simulation and downscaling WRF model for climate modeling. Instituto Dom Luiz, in the Faculty of Sciences, University of Lisbon, Portugal.

Projects

May 2018 – Today

Participation in research project "Modelling the Vertical Structure of Tropical-like Mediterranean Cyclones using WRF Ensemble Forecasting and the impact of Climate Change (MEDICANE)". The research is funded by the sectoral operational program "Human Resources Development, Education and Lifelong Learning", titled as "Endorsement of Researchers with emphasis in young Scientists" (ESPA 2014-2020, EDBM34).

July 2016 - Today

Participation in research projects funded by the European Commission: "EU-CIRCLE: A pan-European framework for strengthening Critical Infrastructure resilience to climate change", in NCSR "Demokritos", (HORIZON2020 – 653824)

May 2013 - June 2016

Participation in a research project funded by the European Commission, "EnTeC - Enhancing the capacity for Environmental Technology and Climate Research", in NCSR "Demokritos", (EnTeC, FP7–316173)

November 2011 - February 2013

Participation in a research ESA project "Electrodynamics of the upper atmosphere in support to Future MLTI Missions", at ATHENA Research and Innovation Center.