

CURRICULUM VITAE

Tzvetan Simeonov

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age: 23
male
single
Bulgarian

Qualified meteorologist, I am working on GNSS meteorology. I participate in a nano-satellite project with design of GNSS radio occultation mission.

RESEARCH EXPERIENCE

Department Meteorology and Geophysics Sofia University Bulgaria
PhD student since July 2013

- 2007 Heat wave over the Balkan Peninsula - study of diurnal cycle of atmospheric water vapour, derived from GNSS tropospheric products.
- Sofia University Atmospheric Data Archive (SUADA) - responsible for database design and processing of GNSS data from Bulgaria.
- Sofia University SAT - preliminary study of nano-satellites. I am part of a team of specialists, designing a nano-satellite to serve for communication and collection of atmospheric data, mostly for the Bulgarian Antarctic Base.

EDUCATION

- Sofia University, Bulgaria 2013 - onward
PhD Meteorology @ Department of Meteorology and Geophysics, Sofia University.
- Sofia University, Bulgaria 2011 - 2013
MSc Meteorology @ Department of Meteorology and Geophysics, Sofia University. Title of the thesis: **Sofia University Atmospheric Data Archive (SUADA)** Mark: excellent.
- Sofia University, Bulgaria 2007 - 2011
BSc Astrophysics, Meteorology and Geophysics @ Faculty of Physics, Sofia University. Title of the thesis: **GNSS Meteorology applications in Bulgaria.** Mark: excellent.

GRANTS

- ERASMUS 5 month grant, University of Bern, Switzerland (winter semester 2012/2013)

MEMBERSHIPS

- Club Young Scientists, Bulgaria, from 2010

PRIZES AND AWARDS

- 2012 Famelab award from the Bulgarian National Television
- 2011 Alma Mater award of the Sofia University for excellence in research and study

COMPUTER LITERACY

- Operating systems: Unix/Linux, Windows
- Programming languages: C, Fortran, Matlab, MPI, OpenMP, bash, MySQL, LaTeX

LANGUAGES

- Bulgarian: mother tongue
- English: fluent
- Russian: fluent
- Czech: working knowledge

FULL PUBLICATION LIST

REFEREED PUBLICATION

A.1) **Simeonov Tzv.**, K. Vassileva and G. Guerova, 2012. First results of application of ground-based GNSS meteorology in Bulgaria/Southeast Europe: case study 2007 heatwave. (Annuaire de l'Université de Sofia St. Kliment Oxridski, submitted in August 2012)

A.2) P. Dankov, M. Gachev, Z. Kiss'ovski, I. Krassimirov, D. Mateev, N. Neshev, O. Ognyanov, **Tzv. Simeonov**, V. Vassilev, K. Zlatkov, 2013. Small Communication Satellite Mission for Enhancement of Antarctic Investigations. (MIC2 book, Nagoya, Japan, submitted in December 2012)

PUBLICATION IN CONFERENCE PROCEEDING

B.1) G. Guerova, J. Morland and **Tzv. Simeonov**, GNSS and heat waves: case studies for 2003 and 2007, 3rd Int. Colloquium - Galileo Science, Copenhagen, Denmark, August-September 2011

MEDIA COMMUNICATION

Simeonov Tzv., 2012. Predicting earthquakes (Bulgarian National television channel BNT1) - http://bnt.bg/bg/news/view/78657/predskazvane_na_zemetresenija

Simeonov Tzv., 2012. Forest fires risks (Bulgarian National television channel BNT1) - http://bnt.bg/bg/news/view/79594/vremeto_i_riskyt_ot_pojari

Simeonov Tzv., 2012. Camp fire safety (Bulgarian National television channel BNT1) -

http://bnt.bg/bg/news/view/80359/kak_bezopasno_se_pali_ogyn_v_gorata

Simeonov Tzv., 2012. Sofia University satellite (Bulgarian National television channel BNT1)
- http://bnt.bg/bg/news/view/81531/mladi_bylgarski_ucheni_s_proekt_za_spytnik

Simeonov Tzv., 2012. Planet alignment and Perseid meteor shower (Bulgarian National television channel BNT1)
- http://bnt.bg/bg/news/view/82421/parad_na_zvezdite

Simeonov Tzv., 2012. Heat waves and climate change (Bulgarian National television channel BNT1)
- http://bnt.bg/bg/news/view/82510/ekstremnite_jegi_shte_stanat_norma

Simeonov Tzv., 2012. The 2012 Scientific Discoveries (Bulgarian National television channel BNT1)
- http://bnt.bg/bg/news/view/91981/nauchnite_otkritija_na_2012

Simeonov Tzv., 2013. Seven moments from the future (A documentary by Bulgarian National television channel BNT1)
- http://bnt.bg/bg/productions/104/edition/31261/v_kadyr_24_april_2013_sedem_miga_ot_bydeshteto

REFEREES

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Dr Guergana Guerova is my BSc, MSc thesis supervisor. She is currently developing "Marie Curie International Reintegration Grant FP7-PEOPLE-2010-RG" and my work is directly linked to the objectives of this project.

Prof. Asen Pashov
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Prof Pashov was supervising me, while I was working in the department of Optics and Spectroscopy.

Assoc. Prof. Plamen Dankov
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Assoc. Prof. Plamen Dankov is the leader of the Sofia University Satellite project (SUSAT).