

## Imran Nadeem

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### EDUCATION

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| Universität für Bodenkultur Wien, Vienna, Austria | <i>In Progress</i> |
| Ph.D. in Climatology                              |                    |
| Quaid-i-Azam University, Islamabad, Pakistan      | 2005               |
| M.Sc in Physics                                   |                    |
| Punjab Universtiy, Lahore, Pakistan               | 2002               |
| B.Sc in Mathematics and Physics                   |                    |

### ACADEMIC INTERESTS

High Resolution Regional Climate Modeling, Subgrid Land Surface Processes In Complex Terrain.

### PUBLICATIONS

**I. Nadeem** and H. Formayer, Sensitivity of ICTP Regional Climate Model (RegCM3) to Initial and Lateral Boundary Conditions, European Geosciences Union General Assembly 2009, Vienna, Austria, 19- 24, April 2009.(Accepted)

**I. Nadeem** and H. Formayer, High Resolution Climate Modelling over the Alpine Region: Problems and Discussion, Institute Seminar, BOKU-MET, Vienna, Austria, Dec 15, 2008.

H.Formayer, **I.Nadeem** and P.Haas, Influence of Mediterranean cyclones on Alpine precipitation, ESF-MedCLIVAR Workshop: Climate Change Modeling for the Mediterranean Region, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, October 13- 15, 2008.

**I. Nadeem** and H. Formayer, Influence of Sub-scale Land Surface Processes on the Simulation of RCM-modeled Surface Climate over the region of Complex Topography, European Geosciences Union, General Assembly 2008, Vienna, Austria, 13- 18 April 2008.

**I. Nadeem** and H. Formayer, Effect of High Resolution Sub-scale Topography and Landuse on the RCM-modeled Surface Climate over Alpine Region, Regional Climate Modeling workshop, Hungarian Meteorological Service, Budapest, 4 - 6 Feb, 2008.

**I. Nadeem** and H. Formayer, The Simulation over Alpine Region Using a Regional Climate Model with Sub-Scale Surface Scheme, 29th International Conference on Alpine Meteorology (ICAM 2007), Chambéry, France, 4 - 8 June, 2007.

**I. Nadeem** and H. Formayer, Effect of High Resolution Subscale Land Surface Scheme on the Simulation of Snow Cover and Surface Water Fluxes over the Alpine Region, IUGG XXIV General Assembly "Earth: our changing planet", Perugia, Italy, 2 -13, July, 2007.

**I. Nadeem** and H. Formayer, Effects of a Subgrid-Scale Topography and Landuse Scheme (SUB-BATS) on the Simulation of Surface Climate over the Alps, Institute Seminar, BOKU-MET, Vienna, Austria, Dec 18, 2006.

**I. Nadeem** and R. Francisco, Some Experiments using SUB-BATS over Alps, The Theory And Use of Regional Climate Models, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 29 May – 9 June, 2006.

F.Syed, **I.Nadeem**, S.Saeed, Climate Simulation Evaluation and Transferability of Convective Schemes in the Regional Climate Model RegCM3 over South Asia, IAMAS, Beijing, China, August 2– 11, 2005.

## WORKSHOPS AND MEETINGS ATTENDED

Fourth ICTP Workshop on the Theory & Use of REGIONAL Climate Models: Applying RCMs to Developing Nations in Support of Climate Change Assessment & Extended-Range Prediction, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, March 3 – 14, 2008.

Third Working Meeting of Project CECILIA (Central and Eastern Europe Climate Change Impact and Vulnerability Assessment), University of Lorand Eotvos, Budapest, 6– 8 February, 2008.

Fourth Working Meeting of Project CECILIA, Varna, Bulgaria, 21– 23 May 2008.

Conference and School on Predictability of Natural Disasters for our Planet in Danger. A System View: Theory, Models, Data Analysis, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 25th June – 6th July 2007.

First Working Meeting of Project CECILIA (Central and Eastern Europe Climate Change Impact and Vulnerability Assessment), Semmering, Austria, January 29 – 31, 2007.

Third ICTP Workshop on the Theory and Use of Regional Climate Models, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 29 May – 9 June, 2006.

The general “METEORISK symposium Wien” Ministry of Education, Science and Culture, Vienna, Austria, June 22<sup>nd</sup>, 2006.

## AWARDS

Scholarship from Higher Education Commission of Pakistan (HEC) under the scheme “Overseas Scholarship for PhD in Selected fields in AUSTRIA” for 4 years.

1st position in M.Sc. Physics in Department of Physics, Quaid-e-Azam University, Islamabad, Pakistan.

Scholarship from HEC under “Talent farming Scheme” for 2 years.

## RESEARCH EXPERIENCE

### CECILIA (Central and Eastern Europe Climate Change Impact and Vulnerability Assessment)

Contributing to Work Package 2 of EU-Project CECILIA. Regional climate modelling experiments using high resolution subgrid land surface and topography scheme (Sub-BATS)

### Asia Pacific Network-CAPaBLE Project

Worked as a team member in APN-CAPaBLE project on Enhancement of national capacities in the application of simulation models for the assessment of climate change and its impacts on water resources, food and agricultural production.

### Code Development

Developed: 1) RegCM3-SRTM30 Terrain code 2) RegCM3-ERA Interim Interface 3) RegCM3-ERA40 (T106) interface 4) Revised RegCM3 Post-Processing Code for Sub-BATS.

## **SOFTWARE EXPERTISE**

Excellent:

Ferret, NCAR Command Language (NCL), NetCDF Operators (NCO)

Good:

Fortran Programming, Parallel Computing, Shell Scripting

## **MISCELLANEOUS**

Support for RegCM3 users in RegCNET-SA (South Asian User Network) and RegCNET (World Wide Users Network) **(2006-present)**

## **MEMBERSHIPS**

European Geosciences Union General Assembly 2008 -

*Last Updated Feb 2009*