

# Irina V. Djalalova

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## ***EDUCATION***

1973-1980            B.S. and M.S. in Physics, specialization in Applied Mechanics  
Moscow State University, Russia  
School of Mathematics and Mechanics

## ***INDEPENDENT PROGRAMMING AND SCIENCE COURSES***

2009                Forecasting with the WRF numerical weather prediction model  
Scientific programming and visualization with NCL  
NCAR, Boulder, CO

2001                CACS-445 Object-Oriented Analysis and Design.  
Department of Continuing Education, University of Colorado, Boulder

2000                Intermediate Programming and Analysis with IDL  
Advanced Topics in IDL  
RSI , Boulder, CO

1999                SA-237 Solaris 7 System Administration I  
SUN, Broomfield, CO

1997                CACS-415 UNIX System Administration  
Department of Continuing Education, University of Colorado, Boulder

1995-1996        Programming courses:  
CSC-230 C Language Programming  
CSC-232 OOP/C++  
CIS-175 UNIX  
Front Range Community College, Westminster, CO

## ***EXPERIENCE***

2005-present      CIRES/NOAA since November 15, 2005  
Associate Scientist III.  
Worked with multiple agencies to evaluate operational and research air quality forecasting models for ozone and particulate matter (PM 2.5), and created several techniques to bias correct forecast models using observational input. Created real-time web sites for displaying model forecasts, observations, and statistical evaluations of the models. Investigated several techniques to create ensembles of the models, and demonstrated their utility for air quality applications. Analyzed meteorological processes that affect air quality using remote sensing and in-situ atmospheric observations. Showed the ability to work well as a group member and also as an individual scientist with the ability to create, process and evaluate research projects.

1997-2005      STC/NOAA  
Senior Application Engineer  
8.5 years of programming experience at the NOAA Environment Technology Laboratory. Worked with scientific data from different observational platforms and numerous atmospheric models. Developed new software for visualization and comparison of data during experiments in real-time through the Internet. Created and supported post-processing data programs. Extensive expertise with C, FORTRAN, IDL, Mat lab, UNIX-scripting. Worked in different operating environments like Windows, UNIX, LINUX.

1993              Ester Lauder Co, Moscow office, Russia  
Programmer

1980-1992      Scientific Institute of Aircraft Technology, Moscow, Russia  
Applied mathematician  
Developed computer programs for spacecraft tile milling as a part of "Soviet Space Shuttle" project, worked with robot manipulator's equipment for several SUKHOI aircraft models.

***ACTIVITIES***      Member, American Meteorological Society  
Reviewer, Atmospheric Environment journal.

***PERSONAL***      US citizen since 2001