

# CV

June 2022

First name: **Mihai**  
Last name: **Dima**  
Date/Place of birth: 11.01.1968, Bucharest  
Civil status: Married/ 1 child  
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## **Studies**

1982-1986 – **National College Gheorghe Lazar**, Bucharest  
1987-1992 – **Faculty of Physics**, University of Bucharest  
1992-1997 - **Faculty of Cybernetics**, Academy of Economic Studies, Bucharest  
1996-2000 – Doctoral program, **Faculty of Physics**, University of Bucharest

## **Research interests**

- Separation of internal and solar from anthropogenically induced climate variability**
- Physical mechanisms of interannual-to-millennial climate variability**
- Reconstruction and understanding past climate variations based on proxy records**
- Climatic impacts on the human society**

**Scientific publications**      42












**Citations ISI**      >1260  
(<https://publons.com/researcher/2824210/mihai-r-dima/publications/>)

**Books/Chapters in books**      11






## **Professional track**

- 1986 - 1990 - **Physicist**  
University of Bucharest, Faculty of Physics, Romania
- 1990 - 1991 - **Master of Science in Atmospheric Physics**  
University of Bucharest, Faculty of Physics, Romania
- 1991 - 1996 - **Economist**  
Academy of Economic Studies  
Faculty of Cybernetics, Bucharest, Romania
- 1992 - 1999 - **Scientific and Teaching Assistant**  
University of Bucharest, Faculty of Physics, Romania
- 1996 - 2000 - **Ph.D.**  
University of Bucharest, Faculty of Physics, Romania  
Department of Atmospheric Physics
- 1997 - 2001 - **Visiting Scientist** (three-month stages each year)  
Max-Planck Institut fur Meteorologie, Hamburg, Germany
- 2000 - 2003 - **Lecturer**  
University of Bucharest, Faculty of Physics, Romania
- 2002 - **PostDoc**  
University of Bremen, Geoscience Department, Germany
- 2004 - 2006 - **Humboldt Fellow**  
University of Bremen, Geoscience Department, Germany  
Alfred-Wegener Institute for Polar and Marine Research,  
Paleoclimate Dynamics Department, Germany
- 2007 - 2008 - **Lecturer**  
University of Bucharest, Faculty of Physics, Romania
- 2009 - **Associate Professor**  
University of Bucharest, Faculty of Physics, Romania
- 2013 - **Habilitation for supervision of Ph.D. students**  
University of Bucharest, Faculty of Physics, Romania
- 2014 - **Full Professor**  
University of Bucharest, Faculty of Physics, Romania
- 2007 - 2022 **Associated member**  
Alfred Wegener Institute for Polar and Marine Research, Germany

## **Reviewer for scientific journals/organizations**

-  **Journal of Climate**
-  **Climate Dynamics**
-  **Geophysical Research Letters**
-  **Journal of Geophysical Research**
-  **International Journal of Climatology**
-  **Climate of the Past**
-  **Climatic Change**
-  **Nonlinear Processes in Geophysics**
-  **Geology**
-  **Remote Sensing**
-  **NPJ Climate and Atmospheric Science**
-  **International Panel for Climate Change**
-  **Humboldt Foundation**
-  **National Science Foundation (USA)**

## **Science management/policy**

-  **Chair of [Interdisciplinary School of Doctoral Studies](#), Romania (2018-2022)**  
University of Bucharest
-  **Secretary of State for [Scientific Research and Innovation](#), Romania (2016)**
-  Elected **president** of the **[National Research Council](#)**, Romania (2013)
-  **Member** of the **[National Research Council](#)**, Romania (2011-2012)  
**President** of the **[Earth Sciences](#)** commission
-  **Member** in **[National Council for Validation of University Titles, Diploma and Certificates](#)**, Romania (2011-2012)  
Panel: **[Mathematics and Natural Sciences](#)**  
Commission: **[Earth Sciences](#)**
-  **CNCS's Deputy at [European Science Foundation](#)**, France (2012)  
Commission: **[Life, Earth and Environmental Sciences](#)**

## **Awards**

- 2004: **Humboldt Fellow** at University of Bremen and Alfred-Wegener Institut for Polar and Marine Research, Bremerhaven, Germania, with the project “Studying climate variability through observational data, proxy records and General Circulation Models”

## **Courses**

- Mechanics**
- Thermal Physics**
- Introduction in Environmental Physics**
- Physics of the Climate System**
- Climatic hazards and risk**
- Statistical Methods for Climate Data Analysis**
- Conceptual approaches in scientific research**

## **Foreign languages**

- English – very good**
- German - medium**
- French - medium**

## Selected publications

1. **AMOC modes linked with distinct North Atlantic deep water formation sites**, **Dima, M.**, Lohmann, G., Ionita, M., Knorr, G., Scholz, P., **Climate Dynamics**, DOI: 10.1038/S41612-021-00182-X, <https://doi.org/10.1007/s00382-022-06156-w>, 2022.
2. **Early-onset of Atlantic Meridional Overturning Circulation weakening in response to atmospheric CO<sub>2</sub> concentration**, **Dima, M.**, Nichita, D. R., Lohmann, G., Ionita, M., Voiculescu, M., **NPJ Climate and Atmospheric Science**, 4(27), 1-8, <https://doi.org/10.1038/s41612-021-00182-x>, 2021
3. **Past megadroughts in central Europe were longer, more severe and less warm than modern droughts**, Ionita, M., **Dima, M.**, Nagavciuc, M., Scholz, M., Lohmann, G., **Communications Earth & Environment**, DOI: 10.1038/S43247-021-09130-W, 2021.
4. **Distentangling and quantifying contributions of distinct forcing factors to the observed global sea level pressure field**, Vaideanu, P., **Dima, M.**, Pirloaga, R., Ionita, M., **Climate Dynamics**, DOI: 10.1007/S00382-019-05067-7, 2020.
5. **An interactive visual tool for investigating teleconnections in climate simulations**, Antonov, A., Lohmann, G., Ionita, M., **Dima, M.**, Linsen, L., **Environmental Earth Sciences**, DOI: 10.1007/S12665-019-8295-Z., 2019.
6. **Atlantic Multidecadal Oscillation footprint on global high cloud cover**, Vaideanu, P., **Dima, M.**, Voiculescu, M., **Theoretical and Applied Climatology**, DOI: 10.1007/S00704-017-2330-3, 2018.
7. **North Atlantic versus Global Control on Dansgaard-Oeschger Events**, **Dima, M.**, Lohmann, G., Knorr, G., **Geophysical Research Letters**, DOI: 10.1029/2018GL080035, 2018.
8. **Large-scale modes impact on Iraq climate variability**, Al-Khalidi, J., **Dima, M.**, Stefan, S., **Theoretical and Applied Climatology**, DOI 10.1007/s00704-017-2180-z, 2017.
9. **North Atlantic and Indian Ocean links with Iraq Climate**, Al-Khalidi, J., **Dima, M.**, Vaideanu, P., **Atmosphere**, 8(2), 235, 2017.
10. **Global patterns of solar influence on high cloud cover**, **Dima, M.**, Voiculescu, M., **Climate Dynamics**, 47, 667-678, 2016.
11. **Intensification and poleward shift of subtropical western boundary currents in a warming climate**, Hu, Y., Lohmann, G., Hu, Y., Wei, W., **Dima, M.**, Ionita, M., Liu, J. **Journal of Geophysical Research**, 121(7), 4928-4945, 2016.
12. **Linkages between atmospheric blocking, sea ice export through Fram Strait and the Atlantic Meridional Overturning Circulation**, Ionita, M., Scholz, P., Lohmann, G., **Dima, M.**, Prange, M., **Scientific Reports**, 6, 32881, 2016.

13. **Possible North Atlantic origin for changes in ENSO properties during the 1970s**, **Dima, M.**, Lohmann, G., Rimbu, N., **Climate Dynamics**, 44, 925-935, 2015.
14. **Predicting the June 2013 European Flooding Based on Precipitation, Soil Moisture, and Sea Level Pressure**, Ionita, M., **Dima, M.**, Lohmann, G., Scholz, P., Rimbu, N., **Journal of Hydrometeorology**, 16, 598-614, 2015.
15. **Pteropod time series from the North Western Mediterranean (1967-2003): impacts of pH and climate variability**, Howes, E. L., Stemmann, L., Assailly, C., Irrison, J. O., **Dima, M.**, Bijma, J., Gattuso, J. P., **Marine Ecology-Progress Series**, 531, 193-206, 2015.
16. **Distinct modes of internal variability in the Global Meridional Overturning Circulation associated with the Southern Hemisphere westerly winds**, Wei, W., Lohmann, G., **Dima, M.**, **Journal of Physical Oceanography**, 42(5), 785-801, 2012.
17. **Interannual to decadal summer drought variability over Europe and its relationship to global sea surface temperature**, Ionita, M., Lohmann, G., Rimbu, N., Chelcea, S., **Dima, M.**, **Climate Dynamics**, doi: 10.1007/s00382-011-1028-y 2011.
18. **Hysteresis behavior of the Atlantic ocean circulation identified in observational data**, **Dima, M.**, Lohmann, G., **Journal of Climate**, 24(2), 397-403, 2011.
19. **Evidence for Two Distinct Modes of Large-Scale Ocean Circulation Changes over the Last Century**, **Dima, M.**, Lohmann, G., **Journal of Climate**, 23, 5-16, 2010.
20. **Subtropical coral reveals abrupt early 20th century freshening in the western North Pacific Ocean**, Felis, T., Suzuki, A., Kuhnert, H., **Dima, M.**, Lohmann, G. and H. Kawahata, **Geology**, 37(6), 527-530, 2009.
21. **Conceptual model for millennial climate variability: a possible combined solar-thermohaline circulation origin for the ~1500-year cycle**, **Dima, M.**, and G. Lohmann, **Climate Dynamics**, 32(2-3), 301-311, 2008.
22. **Rapid 20th Century increase in coastal upwelling off northwest Africa**, McGregor, H. V., **Dima, M.**, Fischer, H. W., Mulitza, S., **Science**, 315, 637-639, 2007
23. **A mechanism for the Atlantic Multidecadal Oscillation**, **Dima, M.**, Lohmann, G., **Journal of Climate**, 20(11), 2706-2719, 2007
24. **Distinct modes of interdecadal variability identified in a climate reconstruction of the last centuries from a South Pacific coral**, **Dima, M.**, Felis, T., Lohmann, G., Rimbu, N., **Climate Dynamics**, DOI 10.1007/s00382-005-0043-2, 2005.
25. **Seasonal prediction of Danube flow variability based on stable teleconnection with sea surface temperature**, Rimbu, N., **Dima, M.**, Lohmann, G., Musat, I., **Geophysical Research Letters**, 32, 21, L21704 10.1029/2005GL024241, 2005.

26. **Solar induced and internal climate variability at decadal timescales**, **Dima, M.**, Lohmann, G., Dima, I., **International Journal of Climatology**, 25(6), 713-733, 2005.
27. **Fundamental and derived modes of climate variability. Concept and application to interannual variability**, **Dima, M.**, Lohmann, G., **Tellus A**, 56A, 229-249, 2004.
28. **Impacts of the North Atlantic Oscillation and the El Nino-Southern Oscillation on Danube river flow variability**, . Rimbu, N., **Dima, M.**, Lohmann, G., Stefan, S., **Geophysical Research Letters**, 31, doi:10.1029/2004GL020559, 2004.
29. **Climate signature of solar irradiance variations: Analysis of long-term instrumental and historical data**, . Lohmann, G., Rimbu, N., **Dima, M.**, **International Journal of Climatology**, 24, 1045 - 1056. doi: 10.1002/joc.1054, 2004.
30. **Decadal variability of the Danube river streamflow in the lower basin and its relation with the North Atlantic Oscillation**, Rimbu, N., Boroneant, C., Buta, C., **Dima, M.**, **International Journal of Climatology**, 22, 1169-1179, 2002.
31. **Arctic Oscillation variability generated through inter-ocean interactions**, **Dima, M.**, Rimbu, N., Dima, I., **Geophysical Research Letters**, 29(14), 22:1-4, 2002.
32. **Quasi-Decadal Variability in the Atlantic Basin Involving Tropics-Midlatitudes and Ocean-Atmosphere Interactions**, **Dima, M.**, Rimbu, N., Stefan, S., Dima, I., **Journal of Climate**, 14(5), 823-832, 2001.
33. **Interdecadal variability generated by interactions between Pacific and Atlantic oceans**, **Dima, M.**, Stefan, S., Dima, V., Borsan, D., **Geophysical Research Letters**, 28(23), 4459-4462, 2001.
34. **The Role of Indian Ocean SST in Forcing East African Rainfall Anomalies during December-January 1997/98**, Latif, M., Dommenges, D., **Dima, M.**, Grötzner, A., **Journal of Climate**, 12(12), 3497-3504, 1999.

## Carti/Capitole in carti

1. **Causes and Consequences of the Late 1960s Great Salinity Anomaly**, Dima, M., Lohmann, G., in **Global Warming Challenges and Opportunities for Policy and Practice**, ISBN 978-953-307-733-8, edited by Elias G. Carayannis (2011).  
<http://www.intechopen.com/articles/show/title/causes-and-consequences-of-the-late-1960s-great-salinity-anomaly>
2. **Physics of Climate Changes**, Dima, M., Stefan, S., Ars Docendi Publishing House, Bucharest, 200 pp. (2008).
3. **Visual FoxPro 5.0 The Basics**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 182 pg., ISBN 973-601-859-8 (1999).
4. **Software Hand-book for Third High-School Year Students - Applied software**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 296 pg., ISBN 973-601-754-0 (1998).
5. **Software Hand-book for Fourth High-School Year Students - Computer Programming (software systems)**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 296 pg., ISBN 973-601-754-0 (1998).
6. **Computers Textbook, Computers programming**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 182 pg., ISBN 973-601-859-8 (1998).
7. **Editing Documents in Word 6 for Windows**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 296 pg., ISBN 973-601-754-0 (1996).
8. **FoxPro 2.5, 2.6 for DOS**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 539 pg., ISBN 973-276-X (1995).
9. **FoxPro 2.6 for Windows**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 510 pg., ISBN 973-601-193-3 (1995).
10. **FoxPro Through Menus and Windows**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 267 pg., ISBN 973-601-140-2 (1994).
11. **FoxPro (2.0. version)**, Dima, G., Dima, M., TEORA Publishing House, Bucharest, 456 pg. ISBN 973-601-117-8 (1993).

4.06.2022

