CV

2025

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

Current position

Professor – **Faculty of Physics**, University of Bucharest

Associated member – Paleoclimate Dynamics Group, **Alfred Wegener Institute for Polar and Marine Research**, Germany

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

- **Physical mechanisms of interannual-to-millennial climate variability**
- **Early Warning Signals of critical transitions**
- **Identifying causal links and feedbacks in data**
- **Climatic impacts on the human society**

Scientific publications	**48**
Citations (Google Scholar)	**2600 (H=23)**
Books/Chapters in books	**11**

Science management/policy

- **Ambassador scientist** of the **Humboldt Foundation,** Germany (2023-)
- **Chair** of **Interdisciplinary School of Doctoral Studies**, Romania (2018-)
  University of Bucharest
- **Secretary of State** for **Scientific Research and Innovation**, Romania (2016)
- **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**

Reviewer for scientific journals/organisations

- **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**
- **NPJ Climate and Atmospheric Science**
- **International Panel for Climate Change**
- **Humboldt Foundation (Germany)**
- **National Science Foundation (USA)**

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

- **Englich** – advanced
- **German** - basic
- **French** - basic

12 most significant publications

1. **Structural stability changes of the Atlantic Meridional Overturning Circulation,**
   Dima, M., Lohmann, G., Nichita, D., R., Knorr, K., Scholz, P.,
   npj Climate and Atmospheric Science, 8 (1), 73 (2025).

2. **Data analysis evidence beyond correlation of a possible causal impact of weather on the COVID-19 spread, mediated by human mobility**.
   Nichita, D. R., **Dima, M**., Boboc, L. *et al*.
   Scientific Reports **14**, 17782 (2024).

3. **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, , (2022).

4. **Early-onset of Atlantic Meridional Overturning Circulation weakening in response to atmospheric CO_2 concentration**,
   Dima, M., Nichita, D. R., Lohmann, G., Ionita, M., Voiculescu, M.,
   NPJ Climate and Atmospheric Science, 4(27), 1-8, (2021).

5. **North Atlantic versus Global Control on Dansgaard-Oeschger Events,**
   Dima, M., Lohmann, G., Knorr, G.,
   Geophysical Research Letters, DOI: 10.1029/2018GL080035, (2018).

6. **Hysteresis behavior of the Atlantic ocean circulation identified in observational data**,
   Dima, M., Lohmann, G**.,**
   Journal of Climate, 24(2), 397-403, (2011).

7. **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.

8. **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.

9. **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.

10. **A mechanism for the Atlantic Multidecadal Oscillation**,
    Dima, M., Lohmann, G.,
    Journal of Climate, 20(11), 2706-2719, 2007.

11. **Solar induced and internal climate variability at decadal timescales**,
    Dima, M., Lohmann, G., Dima, I**.,**
    International Journal of Climatology, 25(6), 713-733, 2005.

12. **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.