



Dr. Vlad Constantin MANEA

Senior Researcher UNAM and regular Member of the Mexican Academy of Sciences

Founder and Chief of the Computational Geodynamics Laboratory

Co-founder and Co-Chief of the University Laboratory of X-ray Micro-Tomography

Co-founder and Co-Chief of the National Laboratory for Advanced Scientific Visualization (www.lavis.unam.mx)

2020-2021 – Invited Professor fellowship – iCUB – University of Bucharest.

2021-2022 – JSPS (Japan Society for Promoting of Science) fellow for mathematics and physical sciences.

Main research areas

Earth and Planetary Sciences / Geophysics / Computational Geodynamics / Supercomputing / Material Sciences.

1. Personal Information

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2. Education

- **Postdoctoral Scholar**, 2006 - 2007, Geosciences Center, UNAM Campus, Juriquilla, Mexico;
- **Postdoctoral Scholar**, 2004 - 2006, Seismological Laboratory, Caltech (California Institute of Technology), Pasadena, USA;
- **Ph.D.**, 2001 - 2004, Institute of Geophysics, Universidad Nacional Autónoma de México;
- **Postgraduate studies**, 1997 - 1999, Faculty of Hydrotechnics; Specialty: G.I.S., Technical University of Civil Engineering, Bucharest, Romania.
- **M.Sc.**, 1995 - 1996, Faculty of Civil Engineering; Specialty: Geotechnical Engineering, Technical University of Civil Engineering, Bucharest, Romania.
- **B.Sc.**, 1992 - 1997, Faculty of Geology and Geophysics; Specialty: Geophysics; University of Bucharest, Romania;
- **B.Sc.**, 1990 - 1995, Faculty of Hydrotechnics, Technical University of Civil Engineering, Bucharest, Romania

5. Publications

No. citations (according to <http://www.scopus.com>): 1559 (h-factor: 22)

No. citations (according to <http://scholar.google.com>): 2287 (h-factor: 25)

5.1. Articles: over 50 papers (*including high-impact journals as Nature Communications, Nature Geosciences and Scientific Reports*).

5.2. Abstracts: over 140 abstracts presented at international scientific events.

5.3. Conferences & Seminars: over 100 presentations at conferences and seminars at different national/international institutions.

6. Research grants: PI, co-PI and participant in over 30 national/international research grants (*including EC funded project through the Structural Funds Program, grant no. 182/2010 – Romanian Academy*).

7. Teaching at undergraduate and graduate level (Geodynamics, Plate Tectonics and Scientific Visualization)

8. Tutoring students at undergraduate and graduate level (MSc and PhD level).

9. Research infrastructure

2016 – University Laboratory for X-ray Micro-Tomography

2014 – National Laboratory for Advanced Scientific Visualization – in partnership with the Institute of Neurobiology UNAM, México

2011 – Cyberdyn Infrastructure (HPCC, HPVC and Geowall) – Institute of Geodynamics, Romanian Academy, Romania

2008 – GeoMATRIX - GEOWALL facility for advanced 3D stereo visualization – Geosciences Centre, UNAM, México.

2007 – HPCC HORUS – Supercomputing facility for subduction dynamics simulations at Geosciences Centre, UNAM, México.

2007 – Computational Geodynamics Laboratory - Geosciences Centre, UNAM, México.

10. Industry: 4 years experience in industry. Slimhole wireline logging (i.e. acoustic and optical televiewer, natural gamma, dual neutron (^{241}Am -Be neutron source)).

11. Awards

- 2015 - Best Scientific Photography Award, 2nd place, UNAM
- 2007 - Best PhD Thesis 2004-2005 granted by the "Dirección General de Estudios de Posgrado" and "Programa de Posgrado en Ciencias de la Tierra" from UNAM
- 2006 - Alfonso Caso Medal, granted by UNAM for the best graduate student within the PhD program in Sciences
- 2003 - Best Presentation within the category of Graduate Students, oral presentations, The Geological Society of America, Cordilleran Section, Puerto Vallarta (Jalisco, Mexico)

12. Professional Service

- Reviewer for: Nature Geosciences; Pure and Applied Geophysics; Revista Mexicana de Ciencias Geológicas; Tectonophysics; Journal of Geophysical Research; Earth Sciences and Mathematics; National Science Foundation (NSF); Physics of the Earth and Planetary Interiors; AGU Monographs; Physics of the earth and Planetary Interiors; Geochemistry, Geophysics, Geosystems.

13. Memberships

- Ad Astra – member of the directory board
- CNECSDTI (2016-2017 and 2020-2024)– member of the Romanian National Council for Ethics of Scientific Research, Technological Development and Innovation
- Member of the Mexican Academy of Sciences

Last update: August 2020