
CURRICULUM VITAE



DOMINIKOS A. VAMVAKARIS

Geologist – MSc. Geophysicist
Dr. Seismologist

LABORATORY TEACHING STAFF

SCHOOL OF GEOLOGY
DEPARTMENT OF GEOPHYSICS
ARISTOTLE UNIVERSITY OF THESSALONIKI

November 2023

PERSONAL DATA

FIRST NAME	Dominikos
LAST NAME	Vamvakaris
DATE OF BIRTH	1977, October 21
NATIONALITY	Hellenic
MARITAL STATUS	Married, with 4 daughters
CONTACT ADDRESS	SEISMOLOGICAL STATION ARISTOTLE UNIVERSITY OF THESSALONIKI GR-54636 40 Ekklisies - THESSALONIKI - GREECE Tel.: +30 2310 991425 E-mail. dom@geo.auth.gr
PERSONAL WEBPAGE	https://dom.webpages.auth.gr



[Google scholar](https://scholar.google.gr/citations?user=ccYsVcYAAAAJ&hl=en)

<https://scholar.google.gr/citations?user=ccYsVcYAAAAJ&hl=en>



[Scopus](https://www.scopus.com/authid/detail.uri?authorId=12807104100)

<https://www.scopus.com/authid/detail.uri?authorId=12807104100>



[ORCID](https://orcid.org/0000-0002-0999-1918)

<https://orcid.org/0000-0002-0999-1918>



[Research Gate](https://www.researchgate.net/profile/Dominikos_Vamvakaris)

https://www.researchgate.net/profile/Dominikos_Vamvakaris



[LinkedIn](https://www.linkedin.com/in/domenikos-vamvakaris-aa461a44/)

<https://www.linkedin.com/in/domenikos-vamvakaris-aa461a44/>

1 PERSONAL DATA - STUDIES

1.1 STUDIES - CAREER

- 1995: Graduation from the high school with degree 17.6.
- 1996-2001: Diploma in Geology, Department of Geology, School of Sciences, Aristotle University of Thessaloniki. Degree: 7.1
- 1998-1999: Visit as a student using the ERASMUS/SOCRATES framework the Laboratory of Hydrogeology in the University of Avignon – France, (Université d'Avignon et des Pays de Vaucluse)
- 2001-2004: MSc degree in Geophysics, Geophysical Laboratory, Department of Geology, Aristotle University of Thessaloniki. Degree: 9.23. Title of MSc thesis: “Contribution to the seismotectonic study of the broader area of Mygdonia basin (N. Greece)
- 2002: Start working as a freelancer geologist-geophysicist.
- 2004: Military service.
- 2004-2010: PhD in Seismology, Geophysical Laboratory, Department of Geology, Aristotle University of Thessaloniki. Title of PhD thesis: “Contribution to the study of the time dependant seismicity and the seismic hazard.”
- 2004: Start participating in the teaching schedule of the AUTH Geology Department as an assistant to the teaching staff.
- 2006: Start working as a permanent research staff at the Seismological Station of the AUTH.
- 2014-now: Start working as a permanent Laboratory Teaching staff at the Seismological Station of the Geophysical Lab., Dep. of Geology, AUTH.

1.2 DEGREES

- 2001 – Diploma in Geology (BSc)
- 2004 – Master Degree in Geophysics (MSc)
- 2010 – Doctorate in Seismology (PhD)

1.3 SCHOLARSHIPS - AWARDS

During my career I had the following scholarships and awards:

- 1995: Award from the Mathematical Society of Greece (EME) and the Academy of Athens for my success in the Panhellenic competitions “Thales”, “Eukleides”, “Archimides” in Mathematics.
- 1996: Award from the Mathematical Society of Greece (EME) and the Academy of Athens for my success in the Panhellenic competitions “Thales”, “Eukleides”, “Archimides” in Mathematics.
- 1998: Scholarship from the State Scholarship Foundation (IKY) for ERASMUS program.
- 2003: Scholarship from the European Union to participate in the “7th Workshop on Non Linear Dynamics and Earthquake Prediction”, at Abdus Salam - International Centre of Theoretical Physics (Trieste – Italy).
- 2005: Scholarship from REVOIL petrol company.
- 2005: Scholarship from the General Secretariat for Research and Innovation (GSRI) through PENED program for the enhancement or researcher.

1.4 SEMINARS – WORKSHOPS ATTENDED

- 1.4.1 2002, May, Thessaloniki: “Introduction to the Geographical Information Systems (GIS), ArcInfo-ArcView», Marathon Data Systems.
- 1.4.2 2002, November, Athens: Training on the ArcGIS software (ArcInfo-ArcView) by ESRI, Marathon Data Systems.
- 1.4.3 2003, May, Thessaloniki: “Introduction to the Geographical Information Systems (GIS), ArcInfo-ArcView», Marathon Data Systems.
- 1.4.4 2003, September-October, Trieste, Italy: “7th Workshop on Non-Linear Dynamics and Earthquake Prediction”. The Abdus Salam International Center of Theoretical Physics, Trieste-Italy.
- 1.4.5 2006, April, Thessalonini “Advanced cources in the use of the Geographical Information Systems (G.I.S.) - ArcGIS Extensions, 3D Analyst, Spatial Analyst”, Marathon Data Systems.
- 1.4.6 2007, March, Thessaloniki: “Advanced School on Environmental Engineering, Geophysics, Applied Geophysics, Seismology, Geology” INTERREG IIIA
- 1.4.7 2007, September, Thessaloniki:”3rd Workshop of the Project EGELADOS, - Exploring the Geodynamics of subducting Lithosphere using an Amphibian Deployment of Seismographs”.
- 1.4.8 2011, November, Thessaloniki: "The protection of monuments under seismic actions", Earthquake Planning and Protection Organization (EPPO) and the European Centre on Prevention and Forecasting of Earthquakes of the Council of Europe (ECPFE).
- 1.4.9 2012, October-November, Thessaloniki: “GEO-PROMOTION” – Jooint framewprk for the provision of standardized services to geotechnical engineers for (e)training of natural risks – Civil and for promoting access to the labour market”
- 1.4.10 2015, November, Thessaloniki: Certified educational program "JOOMLA" (81061T15 - National School of Public Administration and Local Government (ESDDA)).
- 1.4.11 2016, September, Thessaloniki: Basic and advanced seminars on the use of “elearning.auth.gr” platform using Moodle. (Assignments, usage of Ephorus, on line test). AUTH.
- 1.4.12 2016, October, Thessaloniki: Basic elements of Digital Marketing, Grow Greek Tourism Online, AUTH, Google.
- 1.4.13 2016, November, Thessaloniki: Research & Innovation Utilization Laboratory, Technology Transfer Office, Research Committee, AUTH.
- 1.4.14 2016, December, Thessaloniki: Certified educational program "Development of applications with databases” (81059T16 - National School of Public Administration and Local Government (ESDDA)).
- 1.4.15 2017, March, Thessaloniki: Educational program: "Emergency conditions.”. National Emergency Aid Centre (EKAB).
- 1.4.16 2017, March – April, Thessaloniki: Certified educational program "Education in PYTHON" (81014T17 - National School of Public Administration and Local Government (ESDDA)).
- 1.4.17 2017, October, Thessaloniki: Certified educational program "Training of trainers in e-learning” (81041T17, National School of Public Administration and Local Government (ESDDA)).

- 1.4.18 2018, March, Thessaloniki: Author Workshop: “How to write a successful paper and get it published by a good journal”, Researcher Academy - Elsevier.
- 1.4.19 2018, June, Chalkidiki: “9th International workshop of INQUA, on Paleoseismology, Active Tectonics and Archaeoseismology – PATA days 2018”, AUTH – INQUA.
- 1.4.20 2018, July (online seminar), «Morality and privacy in the internet» evaluation of the Slidewiki platform (online course of 60hours). University of Patras – Open University UK.
- 1.4.21 2020, March-April (online seminar): Educational program “Programming in Python for non-programmers”, as a part of the European project “colMOOC: Integration of interactive agents and Learning Analytics in MOOCs”. AUTH – EKETA – GUnet.
- 1.4.22 2020, December, (online seminar): Certified educational program "Modern e-learning tools" (80172T20 - National School of Public Administration and Local Government (ESDDA)).
- 1.4.23 2021, March, (online seminar): Educational e-learning seminar "Mental resilience and empowerment of teachers in crisis ". Education Office of Larissa – "The Smile of the Child" - EPPO.

1.5 CERTIFICATIONS

I have the following certifications, after examination procedure:

- 1.5.1 “Natural resource management for the prevention / response to natural disasters” - "GEOPROMOTION". - Interbalkan Institute of Public Administration. 98 hours. Cert. Code: 18.10.362.17.
- 1.5.2 "Joomla - Content Management System (CMS). - National School of Public Administration and Local Government (ESDDA)). 35 hours. Cert. Code: 11.11.159.399.
- 1.5.3 "Development of applications with relational databases. - National School of Public Administration and Local Government (ESDDA)). 49 hours. Cert. Code: 11.11.132.428.
- 1.5.4 "Education from distance in PYTHON - National School of Public Administration and Local Government (ESDDA)). 35 hours. Cert. Code: 11.11.408.46.
- 1.5.5 "Education for instructors in e-learning. - National School of Public Administration and Local Government (ESDDA)). 70 hours/ Cert. Code: 11.11.118.137.
- 1.5.6 "Modern e-learning tools". - National School of Public Administration and Local Government (ESDDA)). 14 hours. Cert. Code: 11.10.704.7

1.6 VISITOR TO SCIENTIFIC INSTITUTIONS

- 2016: (April). Visit to the Istituto Nazionale di Geofisica e Vulcanologia (INGV) in Napoli (Italy), in the framework of the ERASMUS+ program for the training teaching staff.
- 2017: (May). Visit to the Icelandic Meteorological Office (IMO) – Forecast Dept. in Reykjavik (Iceland), in the framework of the ERASMUS+ program for the training teaching staff.

2 RESEARCH ACTIVITY

My research in general is based on topics around Seismology and Geophysics.

2.1 RESEARCH TOPICS

- Time-dependent and Time independent seismic hazard assessment
- Study of the seismicity and seismic hazard
- Earthquake prediction
- Study of the stress field
- Active crustal deformation
- Earthquake focal mechanisms
- Seismotectonic study of Greece
- Seismic catalogs
- Earthquake analysis
- Data collection and manipulation of local and temporary seismological networks

2.2 CONFERENCES – CONGRESSES ATTENDED

- 2.2.1 “The 29th General Assembly of the International Association of Seismology and Physics of the Earth Interior”, IASPEI, Thessaloniki, Greece, 1997.
**In this conference, I was also a member of the Organizing Committee.*
- 2.2.2 “The 4th National Hydrogeological Congress” of the Hellenic Geological Society, Thessaloniki, Greece, Geological Society of Greece, Thessaloniki, 1997.
- 2.2.3 “The Geographical Information Systems (GIS) in the challenge of the year 2000” (OEEK), Thessaloniki, 1999.
- 2.2.4 “The 5th National Geographical Congress, Thessaloniki, Greece, Geographical Society of Greece, Athens, 1999.
- 2.2.5 “Seismic Hazard Confrontation”, Dep. of Geology, Aristotle University of Thessaloniki – Dep. of Nursing, Technological Educational Institution of Thessaloniki (TEI) - National Centre for Emergency Care (EKAB), Thessaloniki, 1999.
- 2.2.6 “2nd National Congress – The Greek marble, Thessaloniki, Greece, Dep. Of Geology Aristotle University of Thessaloniki & HELEXPO, Thessaloniki, 2000.
- 2.2.7 “9th International Congress of the Geological Society of Greece, Athens, Greece, Geological Society of Greece. Athens, 2001.
- 2.2.8 “The 6th National Geographical Congress, Thessaloniki, Greece, Geographical Society of Greece, Thessaloniki, 2002.
- 2.2.9 “The 12th meeting for the Geographical Information Systems (GIS) users” Athens, 2002.
- 2.2.10 “The European Geophysical Society – American Geophysical Union – European Union of Geosciences – (EGS-AGU-EUG) Joint Assembly”, EGS-AGU-EUG, Nice, France, 2003.
- 2.2.11 “The 10th International Congress of the Geological Society of Greece, Thessaloniki, Greece, Geological Society of Greece. Thessaloniki, 2004.

- 2.2.12 “The 5th International Symposium on Eastern Mediterranean Geology”, ISEMG, Thessaloniki, 2004.
- 2.2.13 “The 2nd Environmental Congress of Macedonia”, Association of Greek Chemists, Thessaloniki, 2005.
- 2.2.14 “The 13 May 1995 earthquake of Grevena – Kozani. 10 years after”, Grevena, 2005.
- 2.2.15 “The 14th International Congress of the Geological Society of Greece, Thessaloniki, Greece, Geological Society of Greece. Thessaloniki,, 2016.
* *In this congress, I was also a member of the Organizing Committee.*
- 2.2.16 “9th International workshop of INQUA, on Paleoseismology, Active Tectonics and Archaeoseismology – PATA days 2018”, AUTH – INQUA, Chalkidiki, 2018.
* *In this workshop, I was also a member of the Organizing Committee.*

2.3 MEETINGS ATTENDED

- 2.3.1 “Earthquakes and Protection. Results of Research Projects.” Earthquake Planning and Protection Organisation (OASP), Thessaloniki, 2007.
- 2.3.2 “Basin and Petroleum Systems Modeling: Technology and Applications for Petroleum Exploration Risk and Resource Assessments (Schlumberger)”. The European Association of Geoscientists and Engineers (EAGE), Thessaloniki, March 2013.
- 2.3.3 “GEO-PROMOTION: results – The next step” under the European program “Greece - Bulgaria 2007-2013”. GEOT.E.E, Thessaloniki, May 2013.
- 2.3.4 «Distance learning: the next day. The challenge of open education». Open Technologies Alliance (GFOSS) – Hellenic Authority for Higher Education (HEHA) – Institute of Educational Policy (IEP). Online 2-day seminar, May 2020.
- 2.3.5 1st Symposium EKATY: Innovative imaging of the subsurface of archaeological sites and the interior of structural elements of monuments in 3 and 4 Dimensions, Thessaloniki, November 2021.
- 2.3.6 “The day that changed the city – One year later”, Thessaly Regional Directorate of Education, Branch of Trikala. Virtual meeting, March 2022.
- 2.3.7 The Economist International Congress. Natural Disasters Management Summit “Protecting lives – Building resilience”. The Economist, Thessaloniki, September 2023.
- 2.3.8 2nd Symposium EKATY: Innovative imaging of the subsurface of archaeological sites and the interior of structural elements of monuments in 3 and 4 Dimensions, Thessaloniki, October 2023.

2.4 PARTICIPATION IN RESEARCH PROJECTS AND FIELD EXPERIMENTS

I have participation in:

- 33 research projects, with a contract as a researcher
- 10 other research projects and field experiments, without any contract

2.5 OTHER SCIENTIFIC EXPERIENCE

- 2002-today: Participation in several field experiments and projects of seismological and geophysical interest, concerning geophysical prospecting using seismic methods (crosshole-downhole) electrical methods (Schlumberger, pole-dipole), and archaeometry.
- 2003-today: Analysis of the recordings of the permanent telemetry network of the central Seismological Station of Thessaloniki for 10-day and weekly periods (In duty for the daily monitoring of the seismicity, earthquake location and magnitude estimation). Contact with the public, state and press. Daily routine check for the proper operation of the recording and digitizing system.

2.6 REVIEWER IN SCIENTIFIC PAPERS

I participated as a reviewer in the following scientific journals and congresses:

- Acta Geophysica / Springer (1895-7455)
- 14th congress of the Geological Society of Greece (EGE - GSG), 2016
- 4th International Congress for the promotion of the educational innovation – Scientific Association for the Promotion of the Educational Innovation (EEPEK), 2018.

2.7 PARTICIPATION IN COMMITTEES

I have participation in the following committees:

- 4 Congresses organizing committees
- 1 Exposition organizing committee
- 1 Administrative committee of AUTH
- 4 Administrative committees of the Geology Dep. AUTH.

3 PUBLICATIONS

I have published alone, or with other co-othours:

3.1 THESES

- 3.1.1 **Vamvakaris, D.A.** “A study of the active tectonics and deformation in the Mygdonia basin (N. Greece) using seismological and neotectonic data.” Diploma Thesis. Dep. Of Geophysics, School of Geology, Aristotle University of Thessaloniki, 67 pages (in greek), 2001.
- 3.1.2 **Vamvakaris, D.A.** “Contribution to the seismotectonic study of the broader area of Mygdonia basin (N. Greece).” MSc Thesis, Dep. Of Geophysics, School of Geology, Aristotle University of Thessaloniki, 150 pages and one Appendix (in greek), 2004.
- 3.1.3 **Vamvakaris, D.A.** “Contribution to the study of the time dependant seismicity and the seismic hazard.” PhD Thesis, Dep. Of Geophysics, School of Geology, Aristotle University of Thessaloniki, 428 pages and 2 Appendices (in greek), 2010.

3.2 PUBLICATIONS IN PEER REVIEWED SCIENTIFIC JOURNALS - BOOKS

- 3.2.1 Papazachos, C.B, **Vamvakaris, D.A.**, Vargemezis, G.N. and Aidona, E.V., A study of the active tectonics and deformation in the Mygdonia basin (N. Greece) using seismological and neotectonic data. Bulletin of the Geological Society of Greece, vol. 34 (1), pp. 303-309, DOI:

10.12681/bgsg.17027, 2001.

- 3.2.2 **Vamvakaris, D.A.**, Papazachos, C.B., Karagianni, E.E., Scordilis E.M. and Hatzidimitriou, P.M., Determination of fault plane solutions using waveform amplitudes and radiation pattern in the Mydgonia basin (N. Greece), *Bulletin of the Geological Society of Greece*, vol. 36 (3), pp. 1529-1538, 2004.
- 3.2.3 Papazachos, C., Mountrakis, D., Karagianni, E., Tranos, M. and **Vamvakaris, D.**, Stress-field and active tectonics in Northern Greece using seismological and neotectonic information. *Bulletin of the Geological Society of Greece*, vol. 36, 2004.
- 3.2.4 Mountrakis, D., Tranos, M., Papazachos, C., Thomaidou, E. Karagianni, E. and **Vamvakaris, D.**, Neotectonic and seismological data concerning major active faults and stress regimes of Northern Greece. In Robertson, A. H. F. and Mountrakis, D. (eds). *Tectonic Development of the Eastern Mediterranean Region*, *Journal of Geological Society of London*, Special Publications Vol. 260, pp.649-670. doi: 10.1144/GSL.SP.2006.260.01.28, 2006.
- 3.2.5 **Vamvakaris, D.A.**, Papazachos, C.B., Karagianni, E.E., Scordilis E.M. and Hatzidimitriou, P.M., Small-scale spatial variations of the stress-field in the back-arc Aegean area: Results from the seismotectonic study of the broader area of Mydgonia basin (N. Greece). *Tectonophysics*, 2006.
- 3.2.6 Skarlatoudis A.A., Papazachos, C.B., Margaris, B.N., Papaioannou, Ch., Ventouzi, Ch., **Vamvakaris, D.**, Bruestle, A., Meier, T., Friederich, W., Stavrakakis, G., Taymaz, T., Kind, R., Vafidis, A., Dahm T. and the EGELADOS group. Combination of Acceleration-Sensor and Broadband Velocity-Sensor.Recordings for Attenuation Studies: The Case of the 8 January 2006 Kythera Intermediate-Depth Earthquake. *Bulletin of the Seismological Society of America*, vol. 99, pp. 694-704. 2009.
- 3.2.7 Tranos M.D., Mountrakis D.M., Papazachos, C.B., Karagianni, E., and **Vamvakaris, D.**, Faulting deformation of the Mesohellenic Trough in the Kastoria-Nestorion region (Western Macedonia, Greece). *Bulletin of the Geological Society of Greece*, 43 (1), pp, 495-505, 2010.
- 3.2.8 Mountrakis, D., Kiliyas, A., Pavlaki, A., Fassoulas, C., Thomaidou, E., Papazachos, C., Papaioannou, C., Roumelioti, Z., Benetatos, C. and **Vamvakaris, D.**, Neotectonic study of Western Crete and implications for seismic hazard assessment. In: (Ed.) Emmanuel Skourtsos, and Gordon S. Lister, *The Geology of Greece*, *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, volume 42, paper 2, doi:10.3809/jvirtex.2011.00285, 2012.
- 3.2.9 Newman, A.V., Stiros, S., Feng, L., Psimoulis, P., Moschas, F., Saltogianni, V., Jiang, Y., Papazachos, C. Panagiotopoulos, D., Karagianni E. and **Vamvakaris, D.**, Recent Geodetic Unrest at Santorini Caldera, Greece, *Geophysical. Research. Letters*, doi:10.1029/2012GL051286, 2012.
- 3.2.10 Salaün, G., Pedersen, H. A., Paul, A., Farra, V., Karabulut, H., Hatzfeld, D., Papazachos, C., Childs, D. M., Pequegnat, C., Afacan, T., Aktar, T., Bourova-Flin, E., Cambaz, D., Hatzidimitriou, P., Hubans, F., Kementzetzidou, D., Karagianni, E., Karagianni, I., Komec Mutlu, A., Dimitrova, L., Ozakin, Y., Roussel, S., Scordilis, M, and **Vamvakaris, D.**, High-resolution surface wave tomography beneath the Aegean-Anatolia region: constraints on upper-mantle structure. *Geophysical Journal International*, 190: 406–420, 2012.
- 3.2.11 Mountrakis, D., Kiliyas, A., Pavlaki, A., Fassoulas, C., Thomaidou, E., Papazachos, C., Papaioannou, C., Roumelioti, Z., Benetatos, C. and **Vamvakaris, D.**, Neotectonic analysis, active stress field and active faults seismic hazard assessment in Western Crete. *Bulletin of the Geological Society of Greece*, 47 (2), pp 582-594, DOI:10.12681/bgsg.11085, 2013.

- 3.2.12 Tassi, F., O. Vaselli, C. B. Papazachos, L. Giannini, G. Chiodini, G. E. Vougioukalakis, E. Karagianni, **D. Vamvakaris**, and Panagiotopoulos, D., Geochemical and isotopic changes in the fumarolic and submerged gas discharges during the 2011-2012 unrest at Santorini caldera (Greece), *Bulletin of Volcanology* 75 (4), pp. 1-15, 2013.
- 3.2.13 **Vamvakaris, D.A.**, C.B. Papazachos, E.M. Scordilis and Karakaisis, G.F., A detailed seismic zonation model for shallow earthquakes in the broader Aegean area. *Nat. Hazards Earth Syst. Sci. Discuss*, 1(6):6719-6784. DOI:10.5194/nhessd-1-6719-2013, 2013.
- 3.2.14 Panagiotopoulos D.G., Papazachos C., Vougioukalakis G., Stiros S., Laopoulos Th., Fytikas M., Karagianni E., **Vamvakaris D.**, Moschas F., Saltogianni V., Albanakis K. Santorini Volcano: The intra-caldera unrest of the period of 2011 - 2012, as revealed by seismicity, temperature, sea-level, geochemical and GPS data. In Arvanitis, A., Basbas, S., Lafazani, P., Papadopoulou, M., Paraschakis, I. and D., Rossikopoulos (eds). *Cartographies of Mind, Soul and Knowledge*, Special issue for Professor Emeritus Myron Myridis, AUTH, Ziti editions, pp. 854-870, ISBN 978-960-89320-7-4, 2015.
- 3.2.15 **Vamvakaris, D.A.**, C.B. Papazachos, E.M. Scordilis and Karakaisis, G.F., A detailed seismic zonation model for shallow earthquakes in the broader Aegean area. *Natural Hazards and Earth System Sciences*, 16 (1), pp. 55-84, DOI: 10.5194/nhess-16-55-2016, 2016.
- 3.2.16 **Vamvakaris, D.A.**, Papazachos, C.B., Papaioannou, Ch.A., Skordilis, E.M., and Karakaisis, G.F., Seismic hazard assessment in the broader Aegean area using Time-Independent seismicity models based on synthetic catalogs. *Bulletin of the Geological Society of Greece*, vol. 50, DOI:10.12681/bgsg.11859, 2016.
- 3.2.17 Papazachos, C.B., **Vamvakaris, D.A.**, Karakaisis, G.F. Papaioannou, Ch.A. Scordilis, E.M. and Papazachos, B.C., Complexity and time-dependent SHA: Should we use fuzzy, approximate and prone-to-errors prediction models to overcome the limitations of time-independent models? In Chelidze, T., Vallianatos, F., and L., Telesca (eds). *Complexity of Seismic Time Series Measurement and Application*. Elsevier, pp. 323-364, DOI:10.1016/B978-0-12-813138-1.00010-9, ISBN 9780128131381, 2018.
- 3.2.18 **Vamvakaris, D. A.**, and E. M. Scordilis. "The Seismological Network of Aristotle University of Thessaloniki, Greece (AUTHnet)." Summary of the *Bulletin of the International Seismological Centre* 54.I: 31-49. <https://doi.org/10.31905/E1Y4GLBL>, 2020.
- 3.2.19 Karakostas, V., Papazachos, C., Papadimitriou, E., Foumelis, M., Kiratzi, A., Pikridas, C., Kostoglou, A., Kkallas, Ch., Chatzis, N., Bitharis, S., Chatzipetros, A., Fotiou, A., Ventouzi, Ch., Karagianni, E., Bonatis, P., Kourouklas, Ch., Paradisopoulou, P., Scordilis, E., **Vamvakaris, D.**, Grendas, I., Kementzetzidou, D., Panou, A., Karakaisis, G., Karagianni, I., Hatzidimitriou, P. and Galanis Galanis, O. (2021). The March 2021 Tyrnavos, central Greece, doublet (Mw6.3 and Mw6.0): Aftershock relocation, faulting details, coseismic slip and deformation. *Bulletin of the Geological Society of Greece*, 58, 131-178. DOI: 10.12681/bgsg.27237, 2021.
- 3.2.20 Papadimitriou E., Karakostas V., Papazachos C., Foumelis M., Kiratzi A., Pikridas Ch., Bonatis P., Kostoglou A., Kourouklas Ch., Scordilis E., Bitharis S., Paradisopoulou P., Panou A., Galanis O., Karagianni E., **Vamvakaris D.**, Karagianni I., Kkallas Ch., Chatzis N., Chatzipetros A., Fotiou A., Ventouzi Ch., Grendas I., Kementzetzidou D., K., Hatzidimitriou P. The seismogenic structure of March 2021 Tyrnavos (central Greece) doublet (Mw6.3 and Mw6.0), constrained by aftershock locations and geodetic data, *Geophysical Journal International*, Vol. 235, Issue 1, pp. 644–689, <https://academic.oup.com/gji/article/235/1/644/7207396>, 2023.

3.3 PUBLICATIONS IN SCIENTIFIC CONGRESS ABSTRACTS

- 3.3.1 **Vamvakaris, D.A.**, Papazachos, C.B, Savvaidis, P.D., Tziavos, I.N., Karagianni, E.E., Skordilis, E.M. and Hatzidimitriou, P.M., Stress-field and time-variation of active crustal deformation in the Mygdonia basin based on the joined interpretation of seismological, neotectonic and geodetic data. *Geophysical Research Abstracts*, Vol. 5, no 08794, 2003.
- 3.3.2 **Vamvakaris, D.A.**, Papazachos, C.B., Karagianni, E.E., Scordilis E.M. and Hatzidimitriou, P.M., Small-scale spatial variations of the stress-field in the back-arc Aegean area: Results from the seismotectonic study of the broader area of Mygdonia basin (N. Greece). *Geophysical Research Abstracts*, Vol. 7, no 06597, 2005.
- 3.3.3 Ventouzi, C., Papazachos, C., **Vamvakaris, D.**, Dimitriadis, I. and Karamesinis, A., Evidence for real-time correlation of mining activity and induced earthquakes in Parnassos mine (Greece). Joint Event of the 13th European Conference on Earthquake Engineering and the 30th General Assembly of the European Seismological Commission, vol.12, p.8247-8256, no.1625, 2006.
- 3.3.4 Skarlatoudis, A.A., Papazachos, C.B., Margaris, B.N., Papaioannou, Ch., Vendouzi, Ch., **Vamvakaris, D.**, Bruestle, A., Meier, T., Friederich, W. and Stavrakakis, G., Combination of strong- and weak-motion data from both permanent and temporary networks for attenuation studies: The case of the January 8, 2006 Kythera intermediate-depth earthquake. *Geophysical Research Abstracts*, Vol. 9, 2007.
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- 3.3.6 Papaioannou, Ch., Roumelioti, Z., Papazachos, C., Mountrakis, D., Kiliyas, A., Pavlaki, A., **Vamvakaris, D.**, Benetatos, Ch., Thomaidou, E., and Fassoulas, C., Probabilistic and Deterministic Seismic Hazard Assessment of W. Creta Based on an Integrated Approach of Geological, Seismological and Seismotectonic Data. 3rd National Conference of Earthquake Engineering and Engineering Seismology. no 1962, p.1-30, 2008.
- 3.3.7 Paul, A., Hatzfeld, D., Karabulut, H., Hatzidimitriou, P., Childs, D., Nikolova, S., Piquegnat, C., Hubans, F., Schmid, A., Aktar, M., Mutlu, A., Afaçan, T., Ozakin, Y., Samut, D., Papazachos, C., Karagianni, I., Kementztzidou, D., Karagianni, E., Roumelioti, Z., **Vamvakaris, D.**, Scordilis, E., and Lyon-Caen, H., The SIMBAAD Experiment in W-Turkey and Greece: A Dense Seismic Network to Study the Crustal and Mantle Structures. AGU Fall meeting abstracts, T21A-1926, 2008.
- 3.3.8 Paul, A., Hatzfeld, D., Karabulut, H., Hatzidimitriou, P., Childs, D., Nikolova, S., Piquegnat, C., Hubans, F., Schmid, A., Aktar, M., Mutlu, A., Afaçan, T., Ozakin, Y., Samut, D., Papazachos, C., Karagianni, I., Kementztzidou, D., Karagianni, E., Roumelioti, Z., **Vamvakaris, D.**, Scordilis, E., and Lyon-Caen, H., The SIMBAAD Experiment in W-Turkey and Greece: A Dense Seismic Network to Study the Crustal and Mantle Structures. The 35th General Assembly of the IASPEI abstracts, 2009.
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- 3.3.12 **Vamvakaris, D.A.**, Papazachos, C.B., Papaioannou, Ch., Skordilis, E.M. and Karakaisis, G.F., Time-dependent seismic hazard using synthetic catalogs for the broader Aegean area: Quantifying the effect of uncertainty of time-dependent mainshock predictions on seismic hazard, *Geophysical Research Abstracts*, Vol. 14, no 14379, 2012.
- 3.3.13 Skarlatoudis A.A., Papazachos, C.B., Margaritis, B.N., Ventouzi, Ch., Kalogeras, I. and **Vamvakaris, D.**, Ground motion prediction equations for intermediate-depth earthquakes in the Southern Aegean Subduction Zone: Identification of significant along-arc/back-arc differences and their impact on seismic hazard, *Geophysical Research Abstracts* Vol. 14, no 14469, 2012.
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- 3.3.16 Mountrakis, D., Kiliyas, A., Pavlaki, A., Fassoulas, C., Thomaidou, E., Papazachos, C., Papaioannou, C., Roumelioti, Z., Benetatos, C. and **Vamvakaris, D.**, Neotectonic and seismotectonic study of the Western Crete and Seismic risk assessment of the active faults. International workshop: "SafeChania 2015: The Knowledge Triangle in the Civil Protection Service", Chania-Greece, (in greek), 2015.
- 3.3.17 **Vamvakaris, D. A.**, Aristotle University of Thessaloniki telemetric seismological network (AUTHnet); a brief description, *Proceedings of the 9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA)*, Volume: 9, pp. 303-307, 2018.
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- 3.3.19 3.3.19 Karakostas, V., C. Papazachos, E. Papadimitriou, M. Fomelis, A. Kiratzi, C. Pikridas, A. Kostoglou, Ch. Kkallas, N. Chatzis, S. Bitharis, A. Chatzipetros, A. Fotiou, Ch. Ventouzi, E. Karagianni, P. Bonatis, Ch. Kourouklas, P. Paradisopoulou, E. Scordilis, **D. Vamvakaris**, I. Grendas, D. Kementzetzidou, A. Panou, G. Karakaisis, I. Karagianni and P. Hatzidimitriou. The 2021 Tyrnavos (central Greece) doublet (Mw6.3 and Mw6.0): Aftershock relocation, faulting details, coseismic slip and deformation. *The General Assembly of the ESC 2021, Virtual*, 2021.

- 3.3.20 3.3.20 Paradisopoulou, P., Karagianni, E., Galanis, O., Karagianni, I., Panou, A., **Vamvakaris, D.**, Kementzetzidou, D., Karakostas, V., Papadimitriou, E.E. Cascading occurrence of moderate magnitude seismicity in the active fault system of Thiva (central Greece). EGU23-11763, <https://doi.org/10.5194/egusphere-egu23-11763>, 2023.

3.4 PRESENTATIONS IN SCIENTIFIC CONGRESSES

- 3.4.1 Papazachos, C.B, **Vamvakaris, D.A.**, Vargemezis, G.N. and Aidona, E.V., A study of the active tectonics and deformation in the Mygdonia basin (N. Greece) using seismological and neotectonic data. Presented in the “*9th International Congress of the Geological Society of Greece*”, Athens, 2001.
- 3.4.2 **Vamvakaris, D.A.**, Papazachos, C.B, Savvaidis, P.D., Tziavos, I.N., Karagianni, E.E., Skordilis, E.M. and Hatzidimitriou, P.M., Stress-field and time-variation of active crustal deformation in the Mygdonia basin based on the joined interpretation of seismological, neotectonic and geodetic data. Presented in “*The European Geophysical Society - American Geophysical Union – European Union of Geosciences (EGS-AGU-EUG) Joint Assembly*”, Nice, France, 2003.
- 3.4.3 **Vamvakaris, D.A.**, Papazachos, C.B., Karagianni, E.E., Scordilis E.M. and Hatzidimitriou, P.M., Determination of fault plane solutions using waveform amplitudes and radiation pattern in the Mygdonia basin (N. Greece). Presented in the “*10th International Congress of the Geological Society of Greece*”, Thessaloniki, Greece, 2004.
- 3.4.4 Papazachos, C., Mountrakis, D., Karagianni, E., Tranos, M. and **Vamvakaris, D.**, Stress-field and active tectonics in Northern Greece using seismological and neotectonic information. Presented in the “*10th International Congress of the Geological Society of Greece*”, Thessaloniki, Greece, 2004.
- 3.4.5 **Vamvakaris, D.A.**, Papazachos, C.B., Karagianni, E.E., Scordilis E.M. and Hatzidimitriou, P.M., Small-scale spatial variations of the stress-field in the back-arc Aegean area: Results from the seismotectonic study of the broader area of Mygdonia basin (N. Greece). Presented in the “*2nd EGU General Assembly*”, Vienna, Austria, 2005.
- 3.4.6 Papazachos, C.B., Karagianni, E.E. and D.A., **Vamvakaris**, Determination of the active stress field in W. Macedonia with seismological data and its correlation with tectonics. Presented in the Congress “*The 1995 Grevena-Kozani earthquake – 10 years after*”, Grevena, (in greek) 2005.
- 3.4.7 Ventouzi, C., Papazachos, C., **Vamvakaris, D.**, Dimitriadis, I. and Karamesinis, A., Evidence for real-time correlation of mining activity and induced earthquakes in Parnassos mine (Greece). Presented in the “*1st European Conference on Earthquake Engineering and Seismology (a joint event of the 13th ECEE & 30th General Assembly of the ESC)*”, Geneva, Switzerland, 2006.
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- 3.4.14 Tranos M. D., Mountrakis D. M., Papazachos, C. B., Karagianni, E., **Vamvakaris, D.** Faulting deformation in the Nestorion region (western Macedonia, Greece). Presented in the “*12th International Congress of the Geological Society of Greece*”, Patras, Greece, 2010.
- 3.4.15 Hubans, F., Paul, A., Campillo, M., Karabulut, H., Hatzidimitriou, P., Afacan, T., Aktar, M., Bourova-Flin, K., Childs, D.M., Dimitrova, L., Hatzfeld, D., Karagianni, E., Karagianni, I., Kementztzidou, D., Komec Mutlu, A., Ozakin, Y., Papazachos, C., Pequegnat, C., Roussel, S., Salaun, G., Samut, D., Scordilis, M. and **Vamvakaris, D.**, Crustal tomography of the Aegean-Anatolian domain using noise cross-correlations. Presented in the “*7th EGU General Assembly*”, Vienna, Austria, 2-7 May 2010.
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- 3.4.20 Papazachos, C.B., Panagiotopoulos, D., Newman, A.V., Stiros, S., Vougioukalakis, G., Fytikas, M., Laopoulos, T., Albanakis, K., **Vamvakaris, D.**, Karagianni, E., Feng, L., Psimoulis, P., and Moschas F., Quantifying the current unrest of the Santorini volcano: Evidence from a multiparametric dataset, involving seismological, geodetic, geochemical and other geophysical data, Presented in the “9th EGU General Assembly 2012”, Vienna, Austria, 22-27 April 2012.
- 3.4.21 Papazachos, C., Panagiotopoulos, D., Karagianni, E., **Vamvakaris, D.**, Albanakis, K., Laopoulos, T. and Fytikas, M. The evolution of the 2011-2012 Santorini volcanic unrest as revealed by seismicity, Presented in “*Volcanism in the Southern Aegean in the Frame of the Broader Mediterranean Area (VOLSAM 2012)*”. October 10-12, Santorini, Greece, 2012.
- 3.4.22 Mountrakis, D., Kiliass, A., Pavlaki, A., Fassoulas, C., Thomaidou, E., Papazachos, C., Papaioannou, C., Roumelioti, Z., Benetatos, C. and **Vamvakaris, D.**, Neotectonic analysis, active stress field and active faults seismic hazard assessment in Western Crete. Presented in the “13th International Congress of the Geological Society of Greece”, Chania, September 2013.
- 3.4.23 Mountrakis, D., Kiliass, A., Pavlaki, A., Fassoulas, C., Thomaidou, E., Papazachos, C., Papaioannou, C., Roumelioti, Z., Benetatos, C. and **Vamvakaris, D.**, Neotectonic and seismotectonic study of the Western Crete and Seismic risk assessment of the active faults. International workshop: “*SafeChania 2015: The Knowledge Triangle in the Civil Protection Service*”, Chania-Greece, (in greek), 2015.
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- 3.4.25 **Vamvakaris, D. A.**, Aristotle University of Thessaloniki telemetric seismological network (AUTHnet); a brief description. Presented in the “9th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA)”, Possidi, Greece, June 2018.
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- 3.4.27 Karakostas, V., C. Papazachos, E. Papadimitriou, M. Foumelis, A. Kiratzi, C. Pikridas, A. Kostoglou, Ch. Kkallas, N. Chatzis, S. Bitharis, A. Chatzipetros, A. Fotiou, Ch. Ventouzi, E. Karagianni, P. Bonatis, Ch. Kourouklas, P. Paradisopoulou, E. Scordilis, **D. Vamvakaris**, I. Grendas, D. Kementzetzidou, A. Panou, G. Karakaisis, I. Karagianni and P. Hatzidimitriou. The 2021 Tyrnavos (central Greece) doublet (Mw6.3 and Mw6.0): Aftershock relocation, faulting details, coseismic slip and deformation. Presented in “*The General Assembly of the ESC 2021*”, Virtual, 2021.
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3.5 TECHNICAL REPORTS

- 3.5.1 Mountrakis, D., Papazachos, C., Kiliyas, A., Tranos, M., Karagianni, E., **Vamvakaris, D.**, Thomaidou, E., Karakaisis, G., Scordilis, E., Chatzidimitriou, P., Papadimitriou, E., Vargemezis, G., Aidona, E., and A., Skarlatoudis. “Determination of the settings and the seismotectonic behavior of the main seismic-active faults of Northern Greece area using neotectonic and seismological data”. Earthquake Planning and Protection Organisation (OASP), 179 pages and one Appendix, (in greek), 2003.
- 3.5.2 Papazachos, C., Savvaidis, P., Tziavos, I., Karagianni, E. **Vamvakaris, D.**, Yfantis, I., Moschidou, P., Papadimitriou, E., and A., Skarlatoudis. “Study of the seismic zones potential of the broader metropolitan area of Thessaloniki (Greece) by the use of seismic and geodetic data”. Earthquake Planning and Protection Organisation (OASP), 94 pages and one Appendix, (in greek), 2003.
- 3.5.3 Mountrakis, D., Kiliyas, A., Papazachos, B., Papazachos, C., Vavliakis, E., Pavlakis, P., Pavlaki, A., Papaioannou, C., Fassoulas, C., Thomaidou, E., Roymelioti, Z., Benetatos, C., **Vamvakaris, D.** and Riziotis, C. “Neotectonic and seismotectonic study of the broader area of Chania prefecture (Western Crete). Development of neotectonic map (1:50.000) and of a detailed seismotectonic study of the northern part of Chania prefecture”, 2004.
- 3.5.4 Papazachos, C., Mountrakis, D., Tranos, M., Papaioannou, Ch., Roumelioti, Z., Karagianni, E., **Vamvakaris, D.** and O., Galanis, Study of seismicity, seismotectonics and seismic hazard of the Nestorio Dam, 177 pages., 2005.
- 3.5.5 Papazachos, C., Poultisidis, M. and **D., Vamvakaris.** Study of seismicity and seismic hazard of the Chamokerasa Dam, 103 pages, 2009.
- 3.5.6 Margaris, B., Klimis, N., Sextos, A., Vadaloukas, G., **Vamvakaris, D.**, Ventouzi, Ch., Vintzileou, E., Galanakis, D., Giarlelis, Ch., Grendas, I., Theodoulidis, N., Kalogeras, I., Karayianni, E., Karayianni, I., Karakaisis, G., Karakostas, Ch., Kementzetzidou, D., Kiliyas, A., Kkallas, Ch. And I., Psycharis. Technical Report for the Thessaly Earthquake sequence of March 2021, Hellenic Association of Earthquake Engineering, ITSAK-OASP, Democritus University of Thrace. 10.13140/RG.2.2.33757.28641. 2022 (in greek).

3.6 MAPS

- 3.6.1 Mountrakis, D., Tranos, M., Thomaidou, E., Papazachos, C., Karagianni, E., and **D. Vamvakaris**, Map of the major seismotectonic faults of North Greece, OASP, 2003.

3.7 CITATIONS

At this moment there are more than 600 citations in my already published work (more than 485 excluding self-citations).

**At the end there is a detailed list of citations according to a manual search in several online platforms (e.g. Scopus, Google Scholar, Researchgate, etc).*

4 TEACHING EXPERIENCE – EDUCATIONAL ACTIVITIES

4.1 TEACHING IN UNIVERCITY

2004 – today: Participation in the undergraduate program of Departments of Geology, Mathematics and Physics of AUTH. Teaching the following courses and practical exercise lessons:

- “Seismology”
- “Introduction to Seismology”
- “Introduction to Geophysics”
- “Seismology and Geophysics”
- “Mechanical oscillations theory and elastic waves”
- “Topics in geophysics”
- “Physics of the lithosphere”
- “Introduction to computer use”
- “Statistics”
- “Educational Applications of Digital Technologies in Geology”

2023 – today: Participation in the postgraduate program "Applied and Environmental Geology" of Departments of Geology, teaching the following course:

- “Basic Principles in Engeneering Seismology”.

4.2 THESES SUPERVISION

Participation in the supervision of the following Theses:

- Kerkenou Athanasia, "Estimation and deaggregation of seismic hazard in the area of Greece using random catalogues", MSc Thesis, 2018.
- Doulkeridis Konstantinos, “Time-dependend seismicity in Italy”, MSc Thesis, 2018.

4.3 FIELD TRAINING

- 2001 - 2002: Participation to the practical lesson ”trainging in the field” for the students of the 6th semester of the Department Geology AUTH, which involved practicing students in collecting and interpreting geophysical data (seismic, electric, magnetic, VLF and microtremors).

4.4 OTHER TEACHING ACTIVITY

- 2002-2003: Teaching Geology in a private school, preparing geologists for appointment exams.
- 2017 - today: Joining the Main Teaching Staff catalogs of the National Centre for the Public Administratins ang Local Government (EKDD).

4.5 LECTURES

- 2002 – today: Participation as a tutor in scheduled visits of school students in the AUTH Seismological Station, giving lectures about earthquakes and protection measurements.
- 2006 – today: Invited to several schools of all levels, giving lectures to students and teachers about earthquakes and protection measurements.
- Lectures for general audience and collaboration with 5 public Libraries, talking about earthquakes, protection measurements and seismic risk management.

- Participation as a speaker, in several science festivals and events.

5 WORKING CAREER

- 5.1. 1999: Working on the Greek Institute of Geology and Mineral Exploration (IGME), brunch of Xanthi (summer work).
- 5.2. 2001 – 2006: Working as a freelance geologist-geophysicist with main activity the geological, geophysical and seismological research.
- 5.3. 2006 – 2014: Working as a permanent research staff at the Seismological Station of the AUTH.
- 5.4. 2014 – today: Working as a as a permanent Laboratory Teaching staff at the Seismological Station of the Geophysical Lab., Dep. of Geology, AUTH.

6 OTHER SKILLS

6.1 LANGUAGES

- Greek (mother language)
- Diploma in French language, very good level (Sorbonne)
- Diploma in English language very good level (State Certificate of Foreign Language Proficiency - C1) by the Greek Ministry of National Education and Religious Affairs

6.2 COMPUTER KNOWLEDGE

- Diploma for Computers (ECDL - European Computer Driving Licence)
- Programming language FORTRAN.
- I'm acquainted with computer environments as MS Windows and Unix
- Practice with programs for Geographical Information Systems (G.I.S.)
- Use of several specialized geological and seismological software
- Use of numerous computer software concerning: Mathematical – graphical plots, image – sound – video processing, Design, 3D Animation, Web design – Html – Joomla – Wordpress, Digitization.

7 SOCIAL ACTIVITIES - MEMBERSHIP

7.1 MEMBERSHIP IN ORGANIZATIONS – UNIONS - CHAMBERS

Participation, as a member in the following Unions, Societies and NGO

- Geotechnical Chamber of Greece (GEOT.E.E)
- Union of Greek Geologist (EGE)
- Union of Greek Geophysicists
- Geological Society of Greece (EGE)
- European Geosciences Union (EGU)
- Institute for the Study and Monitoring of the Santorini Volcano (ISMOSAV)
- Union of Catholic Youth of Greece (EKNE) member of the Panhellenic Council for the years 2001-2002

- Union of Catholic Students of Greece (EKFE) and president of the Thessaloniki brunch for the years 2000-2002
- Elected member of the Administrative Council of Students Union, Dep. Of Geology and representative in the General Assembly of the Department
- Elected member of the Administrative Council of Postgraduate Students Union, Dep. Of Geology and representative in the General Assembly of the Department
- Elected member of the Geology Department (AUTH) General Assembly, as a representative of Laboratory Teaching Staff (2022-2024)
- Elected member of the Geology Department (AUTH) Administrative Council (2023-2024)

7.2 OTHER ACTIVITIES

- For about 15 years, I participate in several camp and jamboree programs for children and young people in Greece and France, as a participant and staff.
- As a Non-Governmental Organizations (NGO) member, I participated in several congresses:
 - ❖ “2nd Congress of the Greek National Council of Youth (ESYN)”
 - ❖ “Congress of aspects of the Greek National Council of Youth (ESYN)”
 - ❖ “Preparing the 15th World Youth day”, 10-15 August 2000
 - ❖ “The 15th World Youth day”, 15-20 August 2000
 - ❖ “European Congress of JECI-MIEC» (International Organization of Catholic Youth). Subj.: “Faith in Action”
 - ❖ “European Committee of JECI-MIEC» (International Organization of Catholic Youth)
 - ❖ “European Colloquium of JECI-MIEC» (International Organization of Catholic Youth). Subj.: “Challenges faced by youth Non-Governmental Organizations (N.G.O.) in today’s European society”.
 - ❖ “8th Congress of the Greek National Youth Council (ESYN)”.

7.3 OTHER INTERESTS - HOBBIES

In the past, I dabbled at music, painting, dance and sports. In my free time I do camping, sports, excursions, handmade constructions (puzzles etc), I play boardgames. I also participated in sailing races and bridge tournaments.

SUMMARY - METRICS

7	Awards - Scholarships	8	Participation in daily conference
23	Seminars - Workshops	33	Participation in research projects
2	Visits in other Institutions	10	Participation in other field works
6	Certifications	3	Reviewer in sc. journals - Congresses
3	Theses	11	Participation in Committees
20	Publications in Journals - Volumes	16	Teaching experience (in years)
20	Publications in Congresses (with abs.)	2	Supervision of Theses
28	Announcements in Congresses	2	Languages
6	Technical Reports	602	Citations to my publications
1	Maps	487	Citations (excl. self-citations)
16	Participation in scientific Congresses	10	h-index



[Google scholar](#)

h-index

11

Citations

561



Research Gate

12

612

Scopus

8

356

Semantic Scholar

8

355

CITATIONS TO MY PUBLISHED WORK

Paper 3.1.3

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