



Anastasia KIRATZI

Professor (full) of Seismology

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Summary

Highly skilled and accomplished expert in Seismology & Engineering Seismology with a distinguished academic background and extensive administrative and professional service experience, and a rich history of teaching and mentoring. Demonstrated leadership as a director, project coordinator, committee member, and advisory panellist in various international and national organizations. Renowned for contributions to seismic research and seismic hazard assessment. Proficient in utilizing advanced analytical and computational techniques to enhance seismic understanding and preparedness. Adept at regional tectonics, crustal deformation, and seismicity studies, particularly in the Aegean Sea and surrounding regions.

Education

Ph.D. in Seismology: Aristotle University of Thessaloniki, Greece
B.Sc. in Geology: Aristotle University of Thessaloniki, Greece
Post-Doctoral: Pennsylvania State University, State College, USA

Employment - Academic Positions

DURATION	Academic Institute	POSITION
2001- present	Aristotle University of Thessaloniki	Full Professor
1994-2000	Aristotle University of Thessaloniki	Associate Professor with tenure
1989-1994	Aristotle University of Thessaloniki	Assistant Professor
1985-1989	Aristotle University of Thessaloniki	Lecturer
1982-1985	Aristotle University of Thessaloniki	Research Associate

Administrative Positions

- Director of the Post-Graduate Program: MSc diplomas in “Applied and Environmental Geology”, School of Geology, Aristotle University of Thessaloniki (2014 – present)
- Vice-president of the International Relations Committee, Aristotle University of Thessaloniki, (06/2017-10/2019).
- Director of the Laboratory of Geophysics, Aristotle University of Thessaloniki, (2010-2017).
- Director of the Department of Geophysics, AUTH (1997-1998 and 2011 – 2013).

Notable Professional Service

- Chair of the Board of Directors of the **Observatories and Research Facilities for European Seismology**

- (ORFEUS), European Seismological Commission| 09/2022– (<http://www.orfeus-eu.org/>).
- European Plate Observing System (EPOS) **Secretary of the Thematic Core Service Seismology Consortium**, (01/2023 – present), (<https://www.epos-eu.org/tcs/seismology>).
- Vice-chair of the Board of Directors of the **Observatories and Research Facilities for European Seismology (ORFEUS)**, European Seismological Commission| 09/2018 – 09/2022. (<http://www.orfeus-eu.org/>).
- Member of the **International Advisory Board of the Institute of Geophysics**, Czech Academy of Sciences (10/2019-present) [<https://www.ig.cas.cz/en/about/executive/>]
- Member of the Publications Committee of the **Mediterranean Geosciences Union (MedGU)**, [2021-present] [<https://www.medgu.org/index.php?p=committees>]
- Member of the Board of Directors of the **Observatories and Research Facilities for European Seismology (ORFEUS)**, European Seismological Commission | 2012–09/2018 (<http://www.orfeus-eu.org/>).
- Member of the Board of Directors of the **Earthquake Planning and Protection Organization of Greece (EPPO)** (years 2002-2005; 2010 –2014; 2014-2017 (www.oasp.gr/en))
- Member of the Board of Directors of the **European Centre on Prevention and Forecasting of Earthquakes** (Decision D16c/131/5/143C/22-3-11 of the Ministry of Infrastructure, Transportation and Networks) [3.06.2011 – 05/2022) <http://ecpfe.oasp.gr/>
- Member of the Board of Directors of the **Institute of Earthquake Engineering and Engineering Seismology** of Thessaloniki, ITSAK (2003 – 2006) and (2010 – 22.8.2011).
- National Expert in the **FP7 “Capacities-International Cooperation”**, (12/2010 - 10/2012; A.Π.15396/3.12.2010).
- Member of the **Management Committee of the European COST Project** (Action 625: 3D monitoring of Active Tectonic Structures), (2000 – 2006)
- Leader of the **COST Working Group “Active Tectonics”** (2000 – 2006).

Expert Panel Membership

- Vice-president of the Experts Committee for the **“Short- Term Seismic Hazard Evaluation in Greece”** (2010-2018) | Greek Government Gazette n. 417/31.12.2010 and n.103/27.02.2014).
- Vice-president of the Experts Committee for the **“Earthquake Engineering and Engineering Seismology”** (2014-2018 | Greek Government Gazette/ n.103/27.02.2014).
- Vice-president of the Committee for the **“Seismic Hazard Assessment and Evaluation of Seismic Risk in Greece”** (2011 – 2018 | Greek Government Gazette /401/ 14.12.2010.)
- Expert Panel Member of the Scientific Committee for **“Seismotectonics”**, (2014-2022) [GREEK GOVERNMENT GAZETTE 103/27.02.2014 & 388/28-5-2020].
- Expert Panel Member of the Scientific Committee for the **Monitoring of the Hellenic Volcanic Arc (05/2020 – 2022)**.
- Expert Panel Member of the Scientific Committee for the **Monitoring and Evaluation of the Santorini Volcano** (2012- 2022).
- Expert Panel Member of the Scientific Committee on **Seismic Hazard Assessment and Evaluation of Seismic Risk in Greece** (2000 – 2005) and (2009 - 2011).
- Member of the Scientific Committee on **Earthquake Engineering and Engineering Seismology** (Earthquake Planning and Protection Organization) (2007 – 2014 & 2014-2018).
- Member of the Hellenic Society for Earthquake Engineering [HSEE]; (since 1.01. 2006 - present)

Advisory Panel Member / Evaluator of European or National Projects

- Member of the European Science Foundation, College of Review Panel Members (2016-present)
- Member of the Evaluation Panel for the European Young Researchers' Award (2016- 2021)
- Member of the Environmental Sciences Panel (ESF 2016-present)
- Member of the Life Sciences Panel (European Science Foundation [ESF], 2014-2015)
- Associate Member of EuroScience (since 11/2019)

Evaluator for various EC Calls:

- COST Project (OC-2021-1) , (OC-2023-1)
- European Starting Grants (ERC), 1st and 2nd stage, Call 2007 (PE10)
- SEE-ERA.NET Pilot Joint Call (2006)
- European NEST Projects, Call 2005
- Evaluator for the Czech Academy of Science Grants (frequent)
- Evaluator for the Swiss National Science Foundation (2018, 2023)
- Evaluator for the Agence Nationale de la Recherche, France (ANR 2016)
- Evaluator ERAfrica Call for Interfacing Challenged (DLR), 2013

Member of promotion committees at foreign universities

- External Evaluator - faculty members (University of Copenhagen, Denmark) 2014
- External Evaluator - faculty members (University of Jordan) 2021
- Evaluator of foreign bilateral projects (frequent)
- Evaluator of national funded projects (frequent)
- Evaluator for the Institute of National Grants of Greece (frequent)

Editorial Appointments

- Associate Editor of **Journal of Seismology**, Springer (05/2019 – 05/2025)
<https://www.springer.com/journal/10950/editors>
- Member of the Editorial Board of **Journal of Seismology**, Springer (2004–05//2019)
- Member of the Editorial Board of **Tectonophysics**, Elsevier (2006- 03/2022).
- Member of the Editorial Board of the **Turkish Journal of Earth Sciences** (2003 -present)
<http://journals.tubitak.gov.tr/earth/index.htm>

Personal Qualities, & Attributes & Skills

- Ability to motivate and support young scientists and build team morale.
- Ability to secure funding for future research projects, manage resources and budgets
- Ability to deliver under tight deadlines.
- Effective leadership and management skills.
- Innovative and creative – ability to generate new ideas
- Strong communication, interpersonal and presentation skills.
- Strong research/analytical skills and problem-solving capability.

Programming Languages: Familiar with Python, Matlab, Fortran, C; Frameworks & Libraries: Jupyter, Matplotlib, NumPy, Pandas; Data Science & Analysis: Statistical Software, SAC; OS: Windows, Linux; **Languages:** English (Proficiency, University of Cambridge); French (Certificat, Institut Français).

Areas of Expertise

Engineering Seismology

- Earthquake ground motion characterization; calculation of input motions for seismic design
- Simulation of strong ground motion using both deterministic and stochastic approaches with emphasis on the incorporation of the finite-source and directivity effects
- Seismic hazard assessment

Real - time applications

- Shake-Maps for strong earthquakes
- Determination of earthquake focal mechanisms using time-domain MT inversions
- Finite-fault earthquake slip models using seismic and geodetic data

Modelling of the seismic source and the rupture process

- Determination of the spatial and temporal characteristics of earthquake rupture by a) inversion of full waveforms at regional and/or teleseismic distances, geodetic data, strong ground motion

- records and surface offset data and b) the inversion of relative moment rate functions
- Variability of strong ground motion due to source and site effects; Near-fault effects on strong ground motion

Aegean Sea and surrounding lands

- Regional Tectonics & Crustal Deformation
- Seismicity studies (relocation, source parameters, seismotectonic implications)
- Finite element modelling of subduction zones

Teaching

Courses taught to Undergraduate Students: Since 1985 continuous teaching assignments to undergraduate students for the courses of: Introduction to Seismology, Advanced Mechanical vibrations and Propagation of Elastic Waves, Field Exercises, Topics in Geophysics, Laboratory Exercises.

Currently Taught:

- **INTRODUCTION TO SEISMOLOGY (GGP 211Y)** |Compulsory 4th Semester: Elements of elasticity theory and elastic waves, Instrumentation of recording earthquakes, Seismic waves and their propagation in the Earth's interior, Ray theory, Magnitude and energy of earthquakes, Seismic activity of the Earth and its distribution, Seismic Sources, Earthquake generation and prediction, Macroseismic effects of earthquakes, Simulated motions, Antiseismic protection.
- **PHYSICS OF THE EARTH'S INTERIOR - GEODYNAMICS (NGGP 203Y)** Compulsory 5th Semester: Earth in the planetary system, Gravity and magnetic field of the earth, thermal structure of the earth, Structure of the Crust and Upper Mantle (distribution of the velocities and attenuation of seismic waves, gravity distribution, and variation of elastic parameters, density and pressure. Deformation and kinematics of the lithosphere (seismological and other geophysical methods).
- **PHYSICS OF THE LITHOSPHERE (GGP 536Y)** |Compulsory 5th Semester: Structure of the Crust and Upper Mantle (distribution of the velocities and attenuation of seismic waves, gravity distribution, and variation of elastic parameters, density and pressure. Deformation and kinematics of the lithosphere (seismological and other geophysical methods).

Courses taught to post-Graduate Students: Since 1995 continuous teaching assignments to graduate students for the courses of: Active Tectonics and Geophysical Structure of Greece, Advanced Topics in Seismology, Geodynamics

Currently Taught:

- **Generation & Propagation of Elastic Waves (GGPM 108 Compulsory, 1st Semester):**
- **Applied Seismology (GGPM 203, Compulsory 2nd Semester)**
- **Advanced Engineering Seismology (GGPM 204 Compulsory, 2nd Semester).**
- **Scientific and Technical Reports (GGPM212) Elective 2nd semester**

Field Experience- Specialized Knowledge

1980 – Present: Participation in the routine analysis of seismological data of the Hellenic Unified Seismic Network. Significant expertise obtained in the processing of digital waveforms.

1980 – Present: Participation in many field experiments involving seismological and geophysical methods, mainly conducted in cooperation with other European Universities.

RESEARCH PROJECTS: as Coordinator / Leader

- **EPOS Optimization and Evolution (EPOS-ON):** funded by EUROPEAN COMMISSION, HORIZON-INFRA-2023-DEV-01-03 (2024-2027).
- **CO2 ROUTES ACROSS EUROPE (COREu),** funded by EU, HORIZON EUROPE, HORIZON-CL5-2023-D3-01-17 - Development of CO2 transport and storage demo projects (01/2024-12/2027).

- **EPOS-Seismology Secretariat [EFEHR | EMSC | ORFEUS]:** EPOS-ERIC, 2023-present.
- **HELPOS – Hellenic Plate Observing System:** implemented under the Action “Reinforcement of the Research and Innovation Infrastructure”, funded by the Operational Program "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund).
- **Safe-Schools: An innovative system of early warning for the protection of schools and critical facilities from earthquakes and other natural disasters,** State-Aid action: Research-Create-Innovate” funded by the Operational Program Competitiveness, Entrepreneurship and Innovation 2014-2020.
- **Graduate Program “Applied and Environmental Geology”, 2014-2022.**
- **Cephalonia 2014 earthquake sequence study,** funded by the Earthquake Planning and Protection Organization of Greece (2014-2015).
- **SITE-CLASSIFICATION: Characterization of site conditions in Greece for realistic seismic ground motion simulations: pilot application in urban areas,** THALES, European Union (ESF) and national funds, 2012 – 2015.
- Contribution of the Department of Geophysics (AUTH) in the operation of the Hellenic Seismological Network, Earthquake Planning and Protection Organization, 2012-2015.
- Specific Study of the 26 January 2014 earthquake in Cephalonia, Earthquake Planning and Protection Organization 2014 - 2015.
- Turkey-Greece cross border seismicity: velocity models, moment tensors, slip models, ShakeMaps based on knowledge transfer and a joint database repository; General Secretariat of Research & Technology (GSRT), 2010-2013.
- Seminar “Monuments under seismic load” – Earthquake Planning and Protection Organization, 2011.
- Common strategies in earthquake hazard assessment and seismological data exchange between Turkey and Greece, Bilateral Cooperation between Greece – Turkey; GSRT 2006 – 30.09.2008
- Cross border cooperation between universities and educational institutes in the field of natural disasters and environmental education], INTERREG IIIA, GREECE – FYROM, 2006 – 30.6.2008.
- Contribution of advanced methods of Geosciences in seismic risk management with emphasis to the built environment of the North Aegean Sea Islands); (General Secretariat of Research and Technology, GSRT, [PEP –NAEGEAN], 2006 – 31.05.2008.
- Shake Maps for Strong Earthquakes in Greece, Bilateral Cooperation Greece – USA, 2005 – 2007; GSRT, 2006 – 30.03.2008.
- Thematic Network “Management of natural risks using space technologies and GIS systems” GEOIMPACT, Funded by Research Committee, Aristotle University of Thessaloniki, 2005 – 2007.
- Development of an Information System for Natural Risk Management in the Mediterranean (SyNaRMa), INTERREG III, STRAND B- ARCHIMED /INTEGRATED AND SUSTAINABLE MANAGEMENT OF CULTURAL AND NATURAL RESOURCES AND OF LANDSCAPES AND RISK MANAGEMENT/ 3.3 Management, prevention and reduction of natural risks: drought, desertification, fires, earthquakes / 353. Protection, improvement and regeneration of the natural environment, Project Leader from the Department of Geophysics partnership, 2006 – 31.12.2007.
- Contribution of Seismology, Geology and Geophysics in the identification of active tectonic structures and to the simulation of expected ground motions at selected sites: emphasis in the area of Macedonia and Thrace, EPEAEK: Pythagoras II Ministry of Education and Religious Affairs, (2005 – 31.12.2007).
- Estimation de l'aléa sismique en Grèce occidentale en utilisant des données sismologiques et géophysiques, GSRT, Bilateral Cooperation, France – Greece, 2005- 2007.
- Development of common methods to study source parameters for earthquakes in Greece and Slovenia and strong ground motion simulation in selected sites, GSRT, Bilateral Cooperation, Slovenia – Greece, 2005 - 2007.
- Development of procedures for the rapid estimation of ground shaking from earthquakes in Greece for emergency response, GSRT, Bilateral Cooperation Greece – USA, 2003 - 2005.
- SEIS-IMPACT: A system to evaluate the seismic impact to the built environment of the Prefecture of Thessaloniki, GSRT - EPAN 2003 – 2005.

- An integrated study of cross- boundary seismicity between Turkey and Greece, GSRT, Bilateral Cooperation Turkey – Greece, 2003 – 2005.
- Seismic Source studies in Greece with emphasis on the detailed study of the intermediate – depth earthquakes in the southern Aegean area, Earthquake Planning and Protection Organization, 2000 – 2003.
- Quantification of present-day tectonics in Albania, GSRT, 2002 - 2003.
- Seismotectonics and Seismic Hazard Assessment in Albania, GSRT, 1998 – 2002.
- Engineering Seismology, GSRT, 1998.
- Detailed seismotectonic structure in the Aegean Sea and the surrounding lands based on the focal mechanisms of moderate size earthquakes, Earthquake Planning and Protection Organization, 1997.
- Seismological research in the Aegean area with emphasis on seismic-source and propagation properties to define the seismic hazard in Greece, Earthquake Planning and Protection Organization), 1993.
- Study of the isoseismals of Kalamata earthquakes, Earthquake Planning and Protection Organization, 1986.

RESEARCH PROJECTS: as Principal Investigator

- Operation of the Hellenic Unified Seismologic Network, EPPO, 2009 – 2011.
- Geophysical prospection in the property of the Hellenic Red Cross (former public property ABK 409) at Thessaloniki, 2008.
- Investigation of active seismotectonic features & seismic hazard of the southern part of Aegean-Peloponnesus plate in the area between Burdur and Mugla, SW Turkey, Bilateral Greece – Turkey, 2007 – 2008.
- Seismic imaging beneath the Aegean - Anatolian Domain, 2007 – 2009.
- Network development of seismological and geodetic observations in the region of Ionian Islands, PEP Ionian, 2006 – 2008.
- Establishment of a peripheral (remote) seismologic station in the prefecture of Thessaloniki, 2006 – 2007.
- Upgrade of the seismologic network of the geophysical laboratory, AUTH, 2005 – 2008.
- Reconstruction of Undergraduate studies, Dept. of Geology, AUTH., 2003 – 2008.
- Installation of a portable digital seismograph Network-Continuous monitoring of seismicity and reporting to the region of central Macedonia-1st stage, 2001 – 2003.
- EUROSEISRISK: Seismic Hazard Assessment, site Effects and Soil Structure Interaction Studies in an Instrumented Basin, 5th Framework, EESD, 2002 – 2005.
- Testing and demonstration employment of an all-optical microseismic sensor network in a seismic active area, EU, 1998-1999.
- Seismicity and seismic hazard in the site of Hospital construction near the city of Serres, 1997.
- Study of the seismicity of the broader area of Florina (N. Greece) and seismic hazard assessment at the site of construction of the New Thermoelectric Station (Public Power Corporation), 1997.
- Seismicity and seismic hazard study in the area of Keramidi (Pieria - N. Greece), 1997.
- Seismological studies related to the seismicity of the Kozani - Grevena area, 1996.
- Seismicity study and seismic hazard assessment of the broader area of artificial lake Polifitou and the Ilarionas Dam, 1996.
- EURO-SEISMOD: Development and experimental validation of advanced simulation technologies in Earthquake Engineering and Engineering Seismology, (ENV4- CT96-0255), 1996 - 1998.
- Active faulting and seismic hazard in Attica (Greece), (ENV4-CT96-0277), 1996
- Theoretical research in earthquake prediction and identification of zones of high seismic potential (EV5V-CT94-0443), 1995.
- AUTO - SEISMO - GEOTECH: An automated geotechnic project for the prevention - mitigation of seismic risk in the cities of high seismic activity in the framework of detailed microzonation studies, EPET II - Ministry of Development, 1995.
- Upgrade of the National Seismological Network, 1995.

- Theoretical research in earthquake prediction and identification of zones of high seismic potential (FP3-ENV-1C; grant EV5V0443), 07/1994 – 07/1996.
- Observation and modelling of heterogeneities in seismic sources and crustal structure for seismic hazard assessment around active faults in the Mediterranean region (CE Environment, EV5V-CT94-0513), EU, 1994 - 1996.
- Santorini volcano laboratory, magma evolution and physical volcanology of historic, prehistoric and quaternary eruptions at Santorini - analysis of the evolution and behavior of a hazard relevant volcanic system (FP3-ENV-1C / grant EV5V0285), EU, 12/1993-07/1996.
- A multidisciplinary study of precursory phenomena in the eastern part of central Greece (Thessaly), 1993.
- Geophysical prospecting along the construction of the New National Road near Katerini area (N. Greece), 1993.
- Earthquake prediction studies in Greece and Italy (EPOC-CT91-0043), 1991.
- Study of the seismicity and continuous reporting to the Ministry of Public Works on seismicity and seismic hazard subjects for the area of Greece, 1990.
- Seismic hazard study in the area of Hydro-electrical Station in Nestos (N. Greece), 1989.
- Dependence of the strong ground motion by seismic source properties and propagation of seismic waves in the area of Greece, 1988.
- Compilation of the seismic hazard map of Greece, 1987.
- Development of seismological networks - Interpretation of seismological data and seismicity and seismic hazard study in Kalamata (Peloponnese) area, 1987.
- Long-term earthquake prediction by seismicity methods, 1985.

Membership in scientific societies

- American Geophysical Union (ID 162965)
- European Geophysical Society
- European Union of Geosciences
- Geological Society of Greece
- Geotechnical Chamber of Greece
- Hellenic Association of Geologists
- Hellenic Geophysical Union
- Seismological Society of America

PUBLICATIONS

Ph. D., Thesis:

Kiratzi, A. (1984). Magnitude scales for earthquakes in Greece. *PhD thesis, Aristotle University of Thessaloniki*, pp. 350.

Articles published in international peer-reviewed journals

1. Vavlas, N., Fountoulakis, I., Roumelioti, Z., Evangelidis, C.P. and A. Kiratzi (2023). Imaging the sources of the March 2021 seismic sequence in Thessaly Basin (central Greece) from kinematic slip inversion and back-projection of waveform envelopes. **Bulletin of the Seismological Society of America**, <https://doi.org/10.1785/0120230024>
2. Papadimitriou, E. and others (2023). The seismogenic structure of March 2021 Tynavos (central Greece) doublet (Mw6.3 and Mw6.0), constrained by aftershock locations and geodetic data, **Geophysical Journal International**, Volume 235, Issue 1, October 2023, Pages 644–689, <https://doi.org/10.1093/gji/ggad253>
3. Plicka, V., Gallovič, F., Zahradník, J., Serpetsidaki, A., Sokos, E., Vavlas, N. and A. Kiratzi (2022). The 2020 Samos Mw7 earthquake: source model depicting complexity and rupture directivity. **Tectonophysics**, 843, <https://doi.org/10.1016/j.tecto.2022.229591>

4. **Kiratzí, A.**, Papazachos, C., Özacar, A., Pinar, A., Kkallas, Ch. and E. Sopachi (2021). Characteristics of the 2020 Samos earthquake (Aegean Sea) using seismic data. **Bulletin of Earthquake Engineering**, <https://doi.org/10.1007/s10518-021-01239-1>
5. Vavlas, N., **Kiratzí, A.** and Z. Roumelioti (2021). Source Process Related Delays in Earthquake Early Warning for example cases in Greece. **Bulletin of the Seismological Society of America**, DOI: <https://doi.org/10.1785/0120200385>
6. Svirgkas, N., **Kiratzí, A.**, Antonioli, A., Atzori, S., Tolomei, C., Salvi, S., Polcari, M. and C. Bignami (2021). Earthquake source investigation of the Kanallaki, March 2020 sequence (North-Western Greece) based on seismic and geodetic data. **Remote Sensing**, 13, 1752. <https://doi.org/10.3390/rs13091752>.
7. Evangelidis, C. P., N. Triantafyllis, M. Samios, K. Boukouras, K. Kontakos, O.-J. Ktenidou, I. Fountoulakis, I. Kalogeras, N. S. Melis, O. Galanis, et al. (2021). Seismic Waveform Data from Greece and Cyprus: Integration, Archival, and Open Access, **Seismological Research Letters** 92, 1672–1684, doi: 10.1785/0220200408.
8. Bignami, C., Antonioli, A., Atzori, S., **Kiratzí, A.**, Polcari, M., Svirgkas, N., Tolomei, C. & the GEOSAR Laboratory (2021). Mapping InSAR deformation of low and moderate earthquakes. **Procedia Computer Science**, 181, 214 - 219. <https://doi.org/10.1016/j.procs.2021.01.139>
9. Svirgkas, N., Loupasakis, C., Tsangaratos, P., Papoutsis, I., **Kiratzí, A.** and H. Kontoes (2020). A deformation study of Anthemountas graben (northern Greece) based on in situ data and new InSAR results. **Arabian Journal of Geosciences**, 13, 518, <https://doi.org/10.1007/s12517-020-05393-9>
10. Svirgkas, N., Atzori, S., **Kiratzí, A.**, Tolomei, C., Antonioli, A., Papoutsis, I., Salvi, S., and Ch. Kontoes (2019). On the segmentation of the Cephalonia-Lefkada Transform Fault Zone (Greece) from an InSAR Multi-Mode Dataset of the Lefkada 2015 Sequence, **Remote Sensing**, 11, 1848; doi:10.3390/rs11161848
11. Svirgkas, N., Atzori, S., **Kiratzí, A.**, Tolomei, C., and S. Salvi (2019). Isolating swarm sources using InSAR: the case of the February 2017 seismic swarm in Western Anatolia (Turkey), **Geophysical Journal Int.**, 217, 1479-1495.
12. **Kiratzí, A.**, Benetatos, C. and F. Vallianatos (2018). Seismic deformation derived from moment tensor summation: application along the Hellenic Trench, (**Book Chapter**) Springer International Publishing AG, part of Springer Nature 2019, S. D'Amico (ed.), Moment Tensor Solutions, Springer **Natural Hazards**, https://doi.org/10.1007/978-3-319-77359-9_10
13. **Kiratzí, A.** (2018). The 12 June 2017 Mw 6.3 Lesvos Island (Aegean Sea) earthquake: Slip model and directivity estimated with finite-fault inversion, **Tectonophysics**, 724-725, 1-10.
14. Savvaidis, A., Makra, K., Klimis, N., Zargli, E., **Kiratzí, A.** and N. Theodulidis (2018). Comparison of Vs30 using measured, assigned and proxy values in three cities of northern Greece, **Engineering Geology**, 239, 63-78.
15. Svirgkas, N., Papoutsis, I., Loupasakis, K., Tsangaratos, P., **Kiratzí, A.** and Ch. Kontoes (2017). InSAR time-series monitoring of ground displacement trends in an industrial area (Oreokastro - Thessaloniki, Greece): detection of natural surface rebound and new tectonic insights, **Environmental Earth Sciences**, 76(5):195, DOI 10.1007/s12665-017-6517-9.
16. Roumelioti, Z., **Kiratzí, A.**, Margaris, B. and A. Chatzipetros (2017). Simulation of strong ground motion on near-fault rock outcrop for engineering purposes: the case of the city of Xanthi (northern Greece), **Bulletin of Earthquake Engineering**, 15(1), 25-49, DOI 10.1007/s10518-016-9949-9.
17. **Kiratzí, A.**, Tsakiroudi, E., Benetatos, C. and G. Karakaisis (2016). The May 24, 2014 (Mw6.8) earthquake in North Aegean Trough: spatiotemporal evolution, source and slip model from teleseismic data, **Physics and Chemistry of the Earth**, 95, 85-100.
18. Svirgkas, N., Papoutsis, I., Loupasakis, K., Tsangaratos, P., **Kiratzí, A.** and Ch. Kontoes (2016). Land subsidence rebound detected via multi-temporal InSAR and ground truth data in Kalochori and Sindos regions, Northern Greece, **Engineering Geology**, 209, 175-186.
19. Křížová, D., Zahradník, J. and A. **Kiratzí** (2016). Possible indicator of a strong isotropic earthquake component – example of two shallow earthquakes in Greece. **Bulletin of the Seismological Society of America**, 106(6), 2784-2795. doi: 10.1785/0120160086
20. Sokos, E., J. Zahradník, F. Gallovič, A. Serpetsidaki, V. Plicka, and A. **Kiratzí** (2016), Asperity break after 12 years: The Mw6.4 2015 Lefkada (Greece) earthquake. **Geophysical Research Letters**, 42, doi:

10.1002/2016GL069427.

21. Sokos, E., **Kiratzis, A.**, Gallovič, F., Zahradník, J., Serpetsidaki, A., Plicka, V., Kostelecký, J., Janský, J. and G-A. Tselentis (2015). Rupture process of the 2014 Cephalonia earthquake doublet (Mw6) as inferred from regional and local seismic data, **Tectonophysics**, 656, 131-141.
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- Peçi, V., E. Scordilis, A. Kiratzi, B. Muço, N. Kuka, and Sh. Shubleka (2000). A new catalogue for recent earthquakes in Albania, poster presentation, American Geophysical Union Spring Meeting, book of abstracts, May 30-June 3, 2000, Washington, D.C.

Invited Keynote/Theme Speaker in National & International Conferences, Workshops & Advanced Schools

1. 5th Hellenic Conference of Earthquake Engineering and Engineering Seismology, Athens 20-22 October 2022, Invited Thematic Lecture <https://5psamts.eltam.org/speakers/>
2. 37th General Assembly of the European Seismological Commission, Corfu Island, Greece on 6-11 September 2020, Invited Keynote
3. 4th Hellenic Conference of Earthquake Engineering and Engineering Seismology, Athens 5-7 September 2019, Invited Thematic Lecture. <https://conv.eltam.org/speakers/>
4. 18th Student Conference on Structures, Invited Lecture: The most significant characteristics of strong earthquakes in Greece, Patras, 14-15 February 2012.
5. 6th Workshop of the ILP Task Force on Sedimentary Basins, Invited Lecture “Seismic sequences in Dibra region (Albania) and implications for the seismic hazard of the region”, Tirana, Albania, 8-11 Nov 2010.
6. 2nd International Workshop "Advances in understanding crustal deformation in SE Europe using the GNSS systems» Invited lecture title: “The 24 May 2009 Mw5.2 earthquake sequence near Lake Doirani (FYROM - Greek borders): focal mechanisms, slip model, ground motions” Kato Nevrokopi, Eastern Macedonia, Greece, November 20 - 21, 2009.
7. 3rd Hellenic Conference on Engineering Seismology and Earthquake Engineering, (Invited Thematic Lecture “Source properties of strong Mw>6.0 earthquakes in Greece), Athens 5-7 November 2008.
8. 31st General Assembly of the European Seismological Commission, ESC 2008, Hersonissos, Crete, Greece, 7-12 September 2008 (Invited Assembly Lecture: “Seismology in Greece: Current advances and insights”).
9. Symposium ‘Terra et Mare of Corinthian’, Invited Lecture: The seismotectonics of the Corinth Gulf, Corinth 2-3 May 2008.
10. European Geosciences Union, General Assembly 2007, April 15-20, 2007, Vienna, Austria (Invited Lecture, Session TS10.5/ GD12/SM19).
11. International Conference: “Neogene Magmatism of the Central Aegean and Adjacent Areas: Petrology, Tectonics, Geodynamics, Mineral Resources and Environment, (NECAM 2006)”, Title of invited Lecture: Distributed faulting in the Aegean Sea and the surrounding lands”, 11 - 13 September 2006, Milos Island, Greece (Invited Keynote Lecture).
12. Scientific Conference of the Geological Society of Greece: “Geology of Thrace – Seismotectonics of NE Aegean Sea”, Samothrace Island, September 2- 4, 2005 (invited speaker).
13. European Advanced School on Tectonics, ICTP, Trieste, 18-22 April 2005 (invited teacher).
14. Workshop on “Seismogenic faulting and seismic activity in the Calabrian Arc region: research trends and links to current investigations in other regions”, Taormina, Sicily, 16-19 October 2003 (invited speaker).
15. 2nd International Conference on Ecological Protection of the Planet Earth, Sofia, Bulgaria, 5 - 8 June 2003 (invited speaker).
16. Workshop “Insurance and Earthquake: Risks and Protection”, Thessaloniki, May 14, 2003 (invited speaker).
17. International Workshop on “Social, Economic and Environmental Impacts of Chemistry & Geology”, Thessaloniki, 14-15 April 2003 (invited speaker).

18. Workshop organized by the Ministry of Environment, Planning and Public Works “Earthquake Design of Constructions”, Kavala, Greece, 21-22 September 2002, (invited speaker).
19. Symposia on “Seismotectonics of North-Western Anatolia – Aegean and recent Turkish events”, Istanbul, Turkey, May 7-9, 2001 (invited speaker).
20. International Advanced Research Workshop “Integration of Earth Science Research on the Turkish and Greek 1999 earthquakes and needs for future cooperative research”, May 14-17, 2000, Istanbul, Turkey (invited speaker).
21. Workshop on the “Management of Earthquake Catastrophes”, Thessaloniki, 3-4 December 1999 (Invited Speaker).
22. Messina University Forum, Scientific Meeting on “Earthquake fault plane solutions: databases, derived parameters, geodynamic inferences”, February 4-, 1997, Taormina (Messina), Italy (Invited Speaker).
23. Workshop on Earthquake Observations, Monitoring and Research, Joint Research Centre (JRC), November 4-5, 1996, Ispra, Italy (Invited Speaker).
24. Workshop in the framework of the International Lithosphere Project ILP-II “World Map of major active faults: The North Anatolian and the Aegean active fault systems, June 1-8, 1992, Thessaloniki (Invited Speaker).

Supervision of MSc and PhD theses

Graduated MSc and PhD students

1. Louvari, E. (1997). A development of a software package for stress analysis and its application in Albania. MSc thesis, School of Geology, University of Thessaloniki, p. 150.
2. Roumelioti, Z. (1999). Estimation of source parameters and simulation of strong ground motion in Western Greece, MSc Thesis, Aristotle University of Thessaloniki, p. 100.
3. Louvari, E. (2000). Detailed seismotectonic analysis of the Aegean Sea and the surrounding land areas based on the focal mechanisms of small magnitude earthquakes, **PhD thesis**, Aristotle University of Thessaloniki, p. 350.
4. Polatidis, A. (2001). Seismic source parameters and attenuation of S- waves in central Greece, MSc Thesis, Aristotle University of Thessaloniki, p. 101.
5. Panagiotou, M. (2001). Seismic source parameters, focal mechanisms and stress tensor inversions in northern and central Aegean Sea, MSc thesis, Aristotle University of Thessaloniki, p. 130.
6. Benetatos, Ch., (2002). Properties of earthquake seismic sources in southern Aegean Sea, with emphasis on intermediate depth earthquakes, and stochastic simulation of ground motion, MSc thesis, Aristotle University of Thessaloniki, p. 150.
7. Roumelioti, Z. (2003). Simulation of strong ground motion, in the near field, of large earthquakes in the Aegean Sea and the adjacent areas, **PhD thesis**, Aristotle University of Thessaloniki, p. 210.
8. Karagianni, I. (2004). Intra-plate earthquakes: the case of the strong (M 7.7) January 26, 2001 India earthquake. MSc thesis, Aristotle University of Thessaloniki, pp. 130.
9. Benetatos, C. (2007). A seismotectonic study of the Aegean Sea and surrounding area using digital seismic data. **PhD thesis**, Aristotle University of Thessaloniki, pp. 317.
10. Karamitrou, A. (2008). Simulation of earthquake strong ground motions in Greece with emphasis in urban areas. MSc thesis, Aristotle University of Thessaloniki, pp. 170.
11. Dimakis, E. (2012). Focal mechanisms and source properties of earthquakes in the Aegean Sea region using broadband records. MSc thesis, Aristotle University of Thessaloniki, pp.160.
12. Tsakiroudi, E. (2015). Source parameters of the 24 May 2014 north Aegean earthquake. MSc thesis, Aristotle University of Thessaloniki, pp. 191.
13. Vavlas, N. (2019). The 2017 Lesvos Island seismic sequence: seismicity, probabilistic seismic hazard assessment and simulation of the strong ground motion, MSc thesis, Aristotle University of Thessaloniki, pp. 161.
14. Orfanidou, A. (2019). Green’s functions and moment tensor inversion: a study of the Bodrum-Kos

- 2017 seismic sequence. MSc thesis, Aristotle University of Thessaloniki, pp. 139.
15. Christou, A. (2019). Near-field simulations of strong ground motion of the 2017 Kos – Halicarnassus earthquake, MSc thesis, Aristotle University of Thessaloniki, pp. 171.
 16. Svigkas, N. (2020). A seismological and remote sensing approach of geodynamic phenomena, **PhD thesis**, Aristotle University of Thessaloniki, pp. 391.
 17. Vavlas, N. (2020 -). Seismic Source characteristics that shape the Seismic Hazard Assessment in Greece- **PhD** candidate
 18. Anterriotis - Kalpakidis, N. (2023 -). Comparing Probabilistic Seismic Hazard Maps with ShakeMap Footprints and Strong Motion Records in Greece, MSc thesis, Aristotle University of Thessaloniki

Undergraduate senior theses advised

~50 students