



Anastasia Kiratzi
Professor of Seismology
ARISTOTLE UNIVERSITY OF THESSALONIKI
FACULTY OF SCIENCES
DEPARTMENT OF GEOPHYSICS
541124 THESSALONIKI, GREECE



Personal Information

First Name: Anastasia
Last Name: Kiratzi
Position: Professor (Full) of Seismology
Address: Department of Geophysics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece; Tel: +30 2310 998486; Mobile: 00306979222331; Fax: +30 2310 998528; E-mail: Kiratzi@geo.auth.gr, **URL:** <http://geophysics.geo.auth.gr>

Academic metrics

ORCID-ID: 0000-0002-9277-8893 <http://orcid.org/0000-0002-9277-8893>
RESEARCHER-ID: M-7429-2013 <http://www.researcherid.com/rid/M-7429-2013>
SCOPUS AUTHOR-ID: 7004628820 <https://www.scopus.com/authid/detail.uri?authorId=7004628820>

Education – Training

1999	Visiting Research Scientist	Cambridge University	UK
1997	Visiting Research Scientist	University of Nice Sophia-Antipolis	France
1987	Post-Doctoral Researcher	Pennsylvania State University	USA
1985	Visiting Research Scientist	Cambridge University	UK
1984	Ph.D. in Seismology	Aristotle University of Thessaloniki	Greece
1980	B.Sc. Geology	Aristotle University of Thessaloniki	Greece

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 assistant

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 Affairs 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).

Academic Honours & Notable Professional Service

- 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 (09/2019-present)
- Member of the Board of Directors of the **Observatories and Research Facilities for European Seismology (ORFEUS)**, under the auspices of the 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 – present) <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).

Expert Panel Membership

- Vice-president of the Experts Committee for the “**Short- Term Seismic Hazard Evaluation in Greece**” (2010-present | 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-present | 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 – present | Greek Government Gazette /401/ 14.12.2010.)
- Expert Panel Member of the Committee for “**Seismotectonics**”, (2014-present) [GREEK GOVERNMENT GAZETTE 103/27.02.2014].
- Expert Panel Member of the National Committee for the **Monitoring and Evaluation of the Santorini Volcano** (2012- present).
- Expert Panel Member of the national 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-present).
- National Expert in the European Project “International Cooperation”, (12/2010 - 10/2012).
- Member of the Hellenic Society for Earthquake Engineering [HSEE]; (since 1.01. 2006 - present)
- 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).

Editorial Appointments

- Associate Editor of **Journal of Seismology**, Springer (05//2019 – 05/2022)
- Member of the Editorial Board of **Journal of Seismology**, Springer (2004–05//2019) <http://www.springer.com/>
- Member of the Editorial Board of **Tectonophysics**, Elsevier (2007-). <http://www.journals.elsevier.com/Tectonophysics/editorial-board/>
- Member of the Advisory Board of the **Turkish Journal of Earth Sciences** (2003 -) <http://journals.tubitak.gov.tr/earth/index.htm>
- Member of the Editorial Board of the **Journal of the Balkan Geophysical Society** (2003 - 2005).

Advisory Panel Member / Reviewer of European or National Projects

- Member of the European Science Foundation, College of Review Panel Members (2016-)
- Member of the Evaluation Panel for the European Young Researchers' Award (2016-
- Member of the Environmental Sciences Panel (ESF 2016-2014)
- Member of the Life Sciences Panel (European Science Foundation [ESF], 2014-2015)
- Remote Reviewer for the Swiss National Science Foundation (2018)
- Remote Reviewer for the Agence Nationale de la Recherche, France (ANR 2016)
- External Evaluator - faculty members (University of Copenhagen, Denmark) 2014
- External Evaluator of academic positions at foreign universities (2013 and 2014)
- Remote Reviewer of foreign bilateral projects (frequent reviewer)
- Evaluator of national funded projects (frequent)
- Evaluator for the Institute of National Grants of Greece (frequent)
- Remote Reviewer of the European Starting Grants, 1st and 2nd stage, Call 2007 (PE10)
- Remote Reviewer for the Czech Academy of Science Grants
- Remote Reviewer of the European NEST Projects, Call 2005

Reviewer for scientific journals

- Bulletin of the Seismological Society of America
- Geophysical Journal International
- Geophysical Research Letters
- Journal of Asian Earth Sciences
- Journal of Geophysical Research
- Journal of Geophysics and Engineering (Iran)
- Journal of Seismology (frequent reviewer)
- Journal of Seismology and Earthquake Engineering (Iran)
- Journal of Soil Dynamics and Earthquake Engineering (frequent reviewer)
- Natural Hazards (frequent reviewer)
- Physics of the Earth and Planetary Interiors
- Tectonophysics (frequent reviewer)
- Turkish Journal of Earth Sciences

LANGUAGES	CERTIFICATE	ORGANIZATION
English	Proficiency	University of Cambridge
French	Certificat	Institut français

Personal Skills and Attributes

- Strong research/analytical skills and problem solving capability.
- Ability to deliver on/contribute to significant research projects/programs.
- Strong communication, interpersonal and presentation skills.
- Effective leadership and management skills.
- Ability to motivate and support young scientists and build team morale.
- Ability to secure funding for future research projects.
- Ability to manage research resources and budgets.
- Advanced planning, organizational and prioritizing skills.
- Innovative and creative – ability to generate new ideas

Areas of Expertise

Engineering Seismology

- Earthquake ground motion characterization and prediction
- Calculation of earthquake 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
- Incorporation of site and attenuation effects

Real – time applications

- Determination of earthquake focal mechanisms using time-domain MT inversions
- Shake-Maps for strong earthquakes

Modelling of the seismic source and the rupture process

- Analysis and inversion of seismic data in the frequency and time domains to determine the geometry and kinematics of faulting phenomena
- Numerical modelling of the seismic radiation generated by extended faults in the high frequency range
- Rupture propagation and slip distribution of strong earthquakes using inversion techniques
- Kinematic modelling of earthquake sources;
- 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)
- Quantification of earthquakes
- 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 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).
- **PHYSICS OF THE EARTH'S INTERIOR (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).

Teaching - 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.

Participation in Conferences, Workshops, Seminars

Participation and presentation of papers in more than 100 conferences held in Greece and abroad (in a number of them as invited speaker or as a member of the Organising Committee or of the Scientific Committee).

Coordinator / Leader in Research projects

1.	HELPOS – Hellenic Plate Observing System , (MIS 5002697) which is 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).
2.	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.
3.	Graduate Program “Applied and Environmental Geology”, 2014-2022.
4.	Cephalonia 2014 earthquake sequence study , funded by the Earthquake Planning and Protection Organization of Greece (2014-2015).
5.	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.
6.	Contribution of the Department of Geophysics (AUTH) in the operation of the Hellenic Seismological Network, Earthquake Planning and Protection Organization, 2012-2015.
7.	Specific Study of the 26 January 2014 earthquake in Cephalonia, Earthquake Planning and Protection Organization 2014 - 2015.
8.	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.
9.	Seminar “Monuments under seismic load” – Earthquake Planning and Protection Organization, 2011.
10.	Common strategies in earthquake hazard assessment and seismological data exchange between Turkey and Greece, Bilateral Cooperation between Greece – Turkey; GSRT 2006 – 30.09.2008
11.	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.
12.	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.
13.	Shake Maps for Strong Earthquakes in Greece, Bilateral Cooperation Greece – USA, 2005 – 2007; GSRT, 2006 – 30.03.2008.
14.	Thematic Network “Management of natural risks using space technologies and GIS systems” GEOIMPACT, Funded by Research Committee, Aristotle University of Thessaloniki, 2005 – 2007.
15.	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.
16.	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).
17.	Estimation de l’aléa sismique en Grèce occidentale en utilisant des données sismologiques et géophysiques, GSRT, Bilateral Cooperation, France – Greece, 2005- 2007.
18.	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.
19.	Development of procedures for the rapid estimation of ground shaking from earthquakes in Greece for emergency response, GSRT, Bilateral Cooperation Greece – USA, 2003 - 2005.
20.	SEIS-IMPACT: A system to evaluate the seismic impact to the build environment of the Prefecture of Thessaloniki, GSRT - EPAN 2003 – 2005.
21.	An integrated study of cross- boundary seismicity between Turkey and Greece, GSRT, Bilateral Cooperation Turkey – Greece, 2003 – 2005.
22.	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.

23. Quantification of present day tectonics in Albania, GSRT, 2002 - 2003.
24. Seismotectonics and Seismic Hazard Assessment in Albania, GSRT, 1998 – 2002.
25. Engineering Seismology, GSRT, 1998.
26. 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.
27. 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.
28. Study of the isoseismals of Kalamata earthquakes, Earthquake Planning and Protection Organization, 1986.
Principal Investigator in Research Projects
29. Operation of the Hellenic Unified Seismologic Network, OASP, 2009 – 2011.
30. Geophysical prospection in the property of the Hellenic Red Cross (former public property ABK 409) at Thessaloniki, 2008.
31. 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.
32. Seismic imaging beneath the Aegean - Anatolian Domain, 2007 – 2009.
33. Network development of seismological and geodetic observations in the region of Ionian Islands, PEP Ionian, 2006 – 2008.
34. Establishment of a peripheral (remote) seismologic station in the prefecture of Thessaloniki, 2006 – 2007.
35. Upgrade of the seismologic network of the geophysical laboratory, AUTH, 2005 – 2008.
36. Reconstruction of Undergraduate studies, Dept. of Geology, AUTH., 2003 – 2008.
37. Installation of a portable digital seismograph Network-Continuous monitoring of seismicity and reporting to the region of central Macedonia-1st stage, 2001 – 2003.
38. EUROSEISRISK: Seismic Hazard Assessment, site Effects and Soil Structure Interaction Studies in an Instrumented Basin, 5th Framework, EESD, 2002 – 2005.
39. Testing and demonstration employment of an all-optical microseismic sensor network in a seismic active area, EU, 1998-1999.
40. Seismicity and seismic hazard in the site of Hospital construction near the city of Serres, 1997.
41. 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.
42. Seismicity and seismic hazard study in the area of Keramidi (Pieria - N. Greece), 1997.
43. Seismological studies related to the seismicity of the Kozani - Grevena area, 1996.
44. Seismicity study and seismic hazard assessment of the broader area of artificial lake Polifitou and the Ilarionas Dam, 1996.
45. EURO-SEISMOD: Development and experimental validation of advanced simulation technologies in Earthquake Engineering and Engineering Seismology, (ENV4- CT96-0255), 1996 - 1998.
46. Active faulting and seismic hazard in Attica (Greece),(ENV4-CT96-0277), 1996
47. Theoretical research in earthquake prediction and identification of zones of high seismic potential (EV5V-CT94-0443), 1995.
48. 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.
49. Upgrade of the National Seismological Network, 1995.
50. Theoretical research in earthquake prediction and identification of zones of high seismic potential (EV5V-CT94-0443), 1995.
51. Observation and modelling of heterogeneities in seismic sources and crustal structure for seismic hazard assessment around active faults in the Mediterranean region (EV5V-CT94-0513), EU, 1994 - 1996.
52. 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 (EVSV-CT 93-028), EU, 1993-1995.

53.	A multidisciplinary study of precursory phenomena in the eastern part of central Greece (Thessaly), 1993.
54.	Geophysical prospecting along the construction of the New National Road near Katerini area (N. Greece), 1993.
55.	Earthquake prediction studies in Greece and Italy (EPOC-CT91-0043), 1991.
56.	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.
57.	Seismic hazard study in the area of Hydro-electrical Station in Nestos (N. Greece), 1989.
58.	Dependence of the strong ground motion by seismic source properties and propagation of seismic waves in the area of Greece, 1988.
59.	Compilation of the seismic hazard map of Greece, 1987.
60.	Development of seismological networks - Interpretation of seismological data and seismicity and seismic hazard study in Kalamata (Peloponnese) area, 1987.
61.	Long-term earthquake prediction by seismicity methods, 1985.

Membership in scientific societies

- American Geophysical Union
- 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 (since 1985)

Publications

Ph. D., Thesis:

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

Articles published in international peer-reviewed journals

1. Kiratzis, 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**, submitted.
2. Vavlas, N., Kiratzis, 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>
3. Plicka, V., Gallovič, F., Zahradník, J., Serpetsidaki, A., Sokos, E., Vavlas, N. and A. Kiratzis (2021). The 2020 Samos (Aegean Sea) M7 earthquake: a normal fault with rupture directivity and near surface slip explaining the tsunami generation and coastal uplift. Published Online: Thu, 29 Apr 2021 <https://doi.org/10.1002/essoar.10506903.1>
4. Svigkas, N., **Kiratzis, 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>.
5. 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, **Seismol. Res. Lett.** 92, 1672–1684, doi: 10.1785/0220200408.
6. Bignami, C., Antonioli, A., Atzori, S., **Kiratzis, A.**, Polcari, M., Svigkas, 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>
7. Svigkas, N., Loupasakis, C., Tsangaratos, P., Papoutsis, I., **Kiratzis, 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>
8. Svigkas, N., Atzori, S., **Kiratzis, 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
9. Svingkas, N., Atzori, S., **Kiratzi, 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.
 10. **Kiratzi, 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
 11. **Kiratzi, 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.
 12. Savvaidis, A., Makra, K., Klimis, N., Zargli, E., **Kiratzi, 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.
 13. Svingkas, N., Papoutsis, I., Loupasakis, K., Tsangaratos, P., **Kiratzi, 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.
 14. Roumelioti, Z., **Kiratzi, 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.
 15. **Kiratzi, 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.
 16. Svingkas, N., Papoutsis, I., Loupasakis, K., Tsangaratos, P., **Kiratzi, 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.
 17. Křížová, D., Zahradník, J. and A. **Kiratzi** (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
 18. Sokos, E., J. Zahradník, F. Gallovič, A. Serpetsidaki, V. Plicka, and A. **Kiratzi** (2016), Asperity break after 12 years: The Mw6.4 2015 Lefkada (Greece) earthquake. **Geophysical Research Letters**, 42, doi: 10.1002/2016GL069427.
 19. Sokos, E., **Kiratzi, A.**, Gallovič, F., Zahradník, J., Serpetsidaki, A., Plicka, V., Kostecký, 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.
 20. **Kiratzi, A.** (2014). Mechanisms of Earthquakes in Aegean, in: Beer, M., Kougiumtzoglou, I.A., Patelli, E., Siu-Kui Au, I. (Eds.), **Encyclopedia of Earthquake Engineering**. Springer Berlin Heidelberg, pp. 1–22. doi:10.1007/978-3-642-36197-5_299-1
 21. **Kiratzi, A.**, Roumelioti, Z., Chatzipetros A., and G. Papathanasiou (2014). Simulation of off-fault surface effects from historical earthquakes: the case of the city of Thessaloniki (Northern Greece): **In the book** “Engineering Geology for Society and Territory”, Vol. 5 “Urban Geology, Sustainable Planning and Landscape Exploitation”, Giorgio Lollino (Ed.), 8643pp/ 8 volume-set ISBN 978-3-319-10303-7.
 22. **Kiratzi, A.**, and N. Svingkas (2013). A study of the 8 January 2013 Mw5.8 earthquake sequence (Lemnos Island, East Aegean Sea), **Tectonophysics**, 608, 452-460, DOI: 10.1016/j.tecto.2013.09.002
 23. Křížová, D., Zahradník, J. and A. **Kiratzi** (2013). Resolvability of isotropic component in regional seismic moment tensor inversion, **Bulletin of the Seismological Society of America**, August 2013, v. 103, Issue 4, p. 2460-2473, doi:10.1785/0120120097.
 24. **Kiratzi, A.**, (2013). The January 2012 earthquake sequence in the Cretan Basin, south of the Hellenic Volcanic Arc: focal mechanisms; rupture directivity and slip models, **Tectonophysics**, 586, 160-172. Doi: 10.1016/j.tecto.2012.11.019.
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- Kiratzi, A., Z. Roumelioti, Ch. Benetatos, N. Theodulidis, A. Savvaidis, A. Panou, H. Tziavos, P. Savvaidis, Hatzigogos, Th., S. Koutoupes, G. Karantonis (2003). SEISIMPACT-THES: scenario earthquakes affecting the built environment of the prefecture of Thessaloniki, Abstract submitted to the 10th EGE 2004 Conference.
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- Roumelioti, Z., Kiratzi, A. and N. Theodoulidis (2003). Stochastic strong ground motion simulation of the 7 September 1999 Athens (Greece) earthquake, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract S52A-0131.
- Kiratzi, A. and Z. Roumelioti (2003). Source parameters that affect strong ground motions: case studies of recent large earthquakes in the Aegean Sea. Invited presentation at the Workshop on "Seismogenic faulting and seismic activity in the Calabrian Arc region: research trends and links to current investigations in other regions", October 16-17, 2003, Taormina, Sicily, pp. 47-48.
- Roumelioti, Z., Benetatos, C., Kiratzi, A., Theodoulidis, N., Aktar, M., and H. Karabulut (2003). Source process of normal earthquakes: the 3 March 2002, M6.6 Afyon, Turkey and the 7 September 1999, M5.9 Athens, Greece earthquakes. Abstract, 5th International Conference on Case Histories in Geotechnical Engineering, April 13 – 17, 2004, NY.
- Benetatos, C., Roumelioti, Z., Kiratzi, A., Stavrakakis, G., Drakatos, G., Latoussakis, I., Karastathis, V., Ganas, A., and M. Arvanitis (2003). Source parameter study of the 14 August 2003 (M 6.2) Lefkada earthquake and its largest aftershocks, European Seismological Commission /Sub-Commission on Earthquake Prediction Research, 1st International Workshop on Earthquake Prediction, Nov 6-7, 2003, Athens, Greece.
- Karagianni, I., Papazachos, C., Scordilis, E., Karakaisis, G. and A. Kiratzi (2003). Accelerating seismic crustal deformation before recent strong earthquakes in the broader Himalayas area: indications for the precursory behavior of interplate and intraplate mainshocks, European Seismological Commission /Sub-

Commission on Earthquake Prediction Research, 1st International Workshop on Earthquake Prediction, Nov 6-7, 2003, Athens.

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- Benetatos, Ch., Kiratzi, A., Papazachos C. and G. Karakaisis (2003). Focal mechanisms of shallow and intermediate depth earthquakes along the Hellenic Trench, Abstract Volume of the International conference “The South Aegean Active Volcanic Arc: Present Knowledge and future perspectives” Milos island, (SAAVA 2003, 17-20 September, 2003), Greece.
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- Benetatos, Ch., Kiratzi, A., Papazachos C. and G. Karakaisis (2002). Source parameters of intermediate depths earthquakes in the southern Aegean Sea and stochastic simulation of ground motion, 26th General Assembly of the European Seismological Commission, (September 1-6, 2002), Genoa, Italy.
- Arrigo, G., Roumelioti, Z., Bottari, A., Benetatos, Ch., Kiratzi, A., Neri, G., Termini, D. and A. Gorini (2002). Source modeling of the 1998 Lauria earthquake (Mw 5.4) in southern Italy by simulation of the ground acceleration time history, Proc. of the National Geophysical Conference, 20-22 November 2002, Rome, Italy.
- Louvari, E. and A. Kiratzi (2000). The focal mechanism of the April 26, 1988 earthquake (Adriatic Sea). 3rd International Conference on the Geology of the Eastern Mediterranean”, Sept 23-26, Nicosia, Cyprus, 1998.
- 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 Speaker or Keynote Speaker in National & International Conferences, Workshops & Advanced Schools

1. 37th General Assembly of the European Seismological Commission, Corfu Island, Greece on 6-11 September 2020, Invited Keynote
2. 4th Hellenic Conference of Earthquake Engineering and Engineering Seismology, Athens 5-7 September 2019, Invited Keynote Lecture. <https://conv.eltam.org/speakers/>
3. 18th Student Conference on Structures, Invited Lecture: The most significant characteristics of strong earthquakes in Greece, Patras, 14-15 February 2012.
4. 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.
5. 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.
6. 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.
7. 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”).
8. Symposium ‘Terra et Mare of Corinthian’, Invited Lecture: The seismotectonics of the Corinth Gulf, Corinth 2-3 May 2008.
9. European Geosciences Union, General Assembly 2007, April 15-20, 2007, Vienna, Austria (Invited Lecture, Session TS10.5/ GD12/SM19).
10. 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).
11. Scientific Conference of the Geological Society of Greece: “Geology of Thrace – Seismotectonics of NE Aegean Sea”, Samothrace Island, September 2– 4, 2005 (invited speaker).

12. European Advanced School on Tectonics, ICTP, Trieste, 18-22 April 2005 (invited teacher).
13. 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).
14. 2nd International Conference on Ecological Protection of the Planet Earth, Sofia, Bulgaria, 5 – 8 June 2003 (invited speaker).
15. Workshop “Insurance and Earthquake: Risks and Protection”, Thessaloniki, May 14, 2003 (invited speaker).
16. International Workshop on “Social, Economic and Environmental Impacts of Chemistry & Geology”, Thessaloniki, 14-15 April 2003 (invited speaker).
17. Workshop organized by the Ministry of Environment, Planning and Public Works “Earthquake Design of Constructions”, Kavala, Greece, 21-22 September 2002, (invited speaker).
18. Symposia on “Seismotectonics of North-Western Anatolia – Aegean and recent Turkish events”, Istanbul, Turkey, May 7-9, 2001 (invited speaker).
19. 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).
20. Workshop on the “Management of Earthquake Catastrophes”, Thessaloniki, 3-4 December 1999 (Invited Speaker).
21. Messina University Forum, Scientific Meeting on “Earthquake fault plane solutions: databases, derived parameters, geodynamic inferences”, February 4-, 1997, Taormina (Messina), Italy (Invited Speaker).
22. Workshop on Earthquake Observations, Monitoring and Research, Joint Research Centre (JRC), November 4-5, 1996, Ispra, Italy (Invited Speaker).
23. 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).

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). Attenuation of P and S- waves in western Greece, MSc Thesis, Aristotle University of Thessaloniki, p. 101.
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