

Short CV

PERSONAL INFORMATION:

Surname: Aidona

Name: Eleni

Date and place of birth: 12 March 1972 Thessaloniki, Greece

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STUDIES:

1995: B. Sc. Geology (Aristotle University of Thessaloniki)

1997: Master Degree in Geophysics. Title of Master: Thesis '*Magnetic properties of minerals and its applications in Archaeology and Geology*'

2002: PhD in Geophysics. Title of Phd Thesis: '*Palaeomagnetic and rock magnetic properties of sediments cores from N. Greece and their implications to the diagenetic process*'.

EMPLOYMENT RECORD:

2002-2012: Research and teaching assistant in Department of Geophysics of the University of Thessaloniki.

2012-2018: Lecturer in Department of Geophysics, School of Geology, University of Thessaloniki.

2018- present: Assistant Professor, Department of Geophysics, School of Geology, University of Thessaloniki.

FIELDS OF SCIENTIFIC RESEARCH

- Palaeomagnetism and tectonics

- Archaeomagnetism
- Magnetostratigraphy,
- Environmental magnetism and problems related to pollution

PARTICIPATION IN PROJECTS

I have participated in more than 21 projects.

PUBLICATIONS

1. **Aidona, E.**, Sarris, A., Kondopoulou, D. and Sanakis, Y., Application of Magnetic and Spectrometry Methods in the Detection of Human Activity in Soils: A Case Study in the Archaeological Site of Kitros (N. Greece). *Arch. Prospection*, 8, 187-198, **2001**.
2. **Aidona, E.**, Kondopoulou, D. and Georgakopoulos, A., Palaeomagnetic and rock magnetic properties of sediment cores from Chalkidiki, Greece. *Phys. Chem. Earth*, 26, 879-884, **2001**.
3. 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. *Bull. Geol. Soc. Greece*, 34, 303-309, **2001**.
4. **Aidona, E.**, Sarris, A., Kondopoulou, D. and Sanakis, Y., A detailed study of the archaeological site of Kitros (N. Greece) by combined magnetic and spectrometry methods. *Proc. of the 31st Symp. in Archaeometry*, **2002**.
5. **Aidona, E.**, Vargemezis, G., Construction of Geotectonic-Seismic map of Greece in the scale of 1:500.000, *Proc. of the 6th Pan-Hellenic Geograph. Conf. of the Hellenic Geograph. Soc.* Vol. 11, pp. 9-16, **2002**.
6. Karakostas, V.G, Papadimitriou, E.E, Karakaisis, G.F., Papazachos, C.B., Scordilis, E.M., Vargemezis, G. and **Aidona, E.**, The 2001 Skyros, Northern Aegean, Greece, earthquake sequence: Off - fault aftershocks, tectonic implications, and seismicity triggering, *Geophys. Res. Lett.*, 30, 1, 1012, doi:10.1029/2002GL015814, **2003**.

7. **Αηδονά, Ε.**, Κοντοπούλου, Δ., και Scholger, R., Μέθοδοι επαναπροσανατολισμού πυρήνων γεωτρήσεων: Εφαρμογή σε πυρήνες ιζημάτων από την Β. Ελλάδα. *Bull. Geol. Soc. Greece*, XXXVI, 1194-1203, **2004**.
8. **Aidona, E.**, Scholger, R. and Mauritsch, H. J., New techniques for sampling and consolidation of sediments: Application to burnt soils from an archaeological site in Austria. *Bull. Geol. Soc. Greece*, XXXVI, 1129-1137, **2004**.
9. **Aidona, E.**, Scholger, R., Mauritsch, H. J., Schnepf, E. and Klemm, S., Spatial distribution of archaeomagnetic vectors within archaeological samples from Eisenerz (Austria). *Geoph. J. Int.*, 166, 46-58, **2006**.
10. Sarris, A., K. Kouriati, E. Kokkinou, **E. Aidona**, L. Karagianni, G. Vargemezis, G. Stamatis, M. Elvanidou, E. Katifori, M. Kaskanioti†, S. Soetens, Th. Kalpaxis, Y. Bassiakos, C. Athanassas, B. Hayden & T. Brennan. A Multi-disciplinary Approach to Industrial Sites of the Vrokastro Region of Mirabello, Eastern Crete. *Proc. XXXIII Computer Applications and Quantitative Methods in Archaeology Conf.* (March 2005, Tomar, Portugal): The World in Your Eyes, edited by A. Figueiredo & G. Velho, CAA Portugal – Associacao para o Desenvolvimento das Aplicacoes Informaticas e Novas Tecnologias em Arqueologia, Tomar, pp. 211-217, **2007**.
11. **Aidona, E.**, Kondopoulou, D., Scholger, R., Georgakopoulos A. and Vafeidis, A., Palaeomagnetic investigations of sediment cores from Axios zone (N. Greece): Implications for low inclinations in the Aegean, *E-Earth* 3, 1-12, **2008**.
12. **Aidona, E.**, Scholger, R., Mauritsch, H. J., and Perraki, M., Remanence acquisition in a Roman-style gold furnace. *Phys. Chem. Earth*, Special Issue, 33, 438-448, **2008**.
13. Sarris, A., Kokkinou, E., **Aidona, E.**, Kallithrakas-Kontos, N., Koulouridakis, P., Kakoulaki, G., Droulia, K. and Damianovits, O., Environmental study for pollution in the area of Megalopolis Power Plant (Peloponnesos, Greece). *Environ. Geology*, 58, 1769-1783, DOI 10.1007/s00254-008-1676-3, **2009**.
14. **Aidona, E.**, Kondopoulou D., Alexandrou M., Ioannidis. N. Archaeomagnetic studies in kilns from N. Greece. *Bull. Geol. Soc. Greece*, XLIII, 4, 1888-1897, **2010**.

15. Spatharas, V., Kondopoulou, D., **Aidona, E.** and Efthimiadis, K.G. New magnetic mineralogy and archaeointensity results from Greek kilns and baked clays. *Studia Geoph. Geod.*, 55, 131-157, **2011**.
16. Kondopoulou, D., Sen, S., **Aidona, E.**, Van Hinsbergen, D.J.J., and G. Koufos. Rotation history of Chios Island, Greece since the middle Miocene. *J. Geodynamics*, 51, 327-338, **2011**.
17. Bourliva, A., Kantiranis, N., Papadopoulou, L., **Aidona, E.**, Christoforidis, G. and Kollias, P. On the morphology, geochemical characteristics and magnetic properties of urban road dust particles from the historic center of the city of Thessaloniki, Greece. *Proc. 12th Int. Conf. on Environ. Sci. Techn.*, Rhodes, Greece, 8-10 September, **2011**.
18. Πεχλιβανίδου, Σ., **Αηδονά, Ε.**, Βουβαλίδης, Κ., Πέννος, Χ., Αλμπανάκης, Κ. Φυσικογεωγραφική, ιζηματολογική μελέτη και ανίχνευση των μαγνητικών ιδιοτήτων των ιζημάτων του ‘Μικρού’ σπηλαιίου των Επταμύλων Σερρών. *Bull. Geol. Soc. Greece*, XLIV, 37-46, **2011**.
19. **Αηδονά, Ε.**, DeMarco, E., και Κοντοπούλου, Δ. Αρχαιομαγνητικές μελέτες στην Ελλάδα: Νέες εξελίξεις και προοπτικές. *Πρακτικά 5^ο Συμποσίου της Ελληνικής Αρχαιομετρικής Εταιρείας*, 169-185, **2012**.
20. **Aidona, E.** and Liritzis, I. Magnetic Susceptibility and Radioactivity Changes of Aegean and Ionian Sea Sediments during Last Glacial/Interglacial: Climatic and Chronological Markers. *J. Coastal Res.*, 28, 2, 342 – 353, **2012**.
21. **Αηδονά, Ε.** Αρχαιομαγνητική μελέτη καμένων δομών από το Νεολιθικό οικισμό Αυγής Καστοριάς. *Πρακτικά 22^ο Αρχαιολογικού έργου στη Μακεδονία και στη Θράκη*, **2012**.
22. **Aidona, E.** and Kondopoulou D. First archaeomagnetic results and dating of neolithic structures in Northern Greece. *Studia Geoph. Geod.*, 56, 827-844, DOI: 10.1007/s11200-011-9006-8, **2012**.
23. Fanjat, G., **Aidona, E.**, Kondopoulou D., Rathossi, Ch., Camps P., and Poidras Th. Archeointensities in Greece during the Neolithic period: New insights into material selection and secular variation curve. *Phys. Earth and Plan. Int.*, 215, 29-42, **2013**.

24. **Aidona, E.**, Kazakis, N., Mavroidaki, K., and Voudouris, K. Magnetic susceptibility as a tool for the discrimination of anthropogenic and lithogenic history of topsoils: preliminary results from the broader area of Thessaloniki city. *Bull. Geol. Soc. Greece*, XLVII, 236-244, **2013**.
25. **Aidona, E.**, Pechlivanidou, S., Pennos, Ch. Environmental magnetism: application to cave sediments. *Bull. Geol. Soc. Greece*, XLVII, 892-900, **2013**.
26. Pennos, Ch., **Aidona, E.**, Pechlivanidou, S., Vouvalidis, K. Holocene sedimentary records of the Katarraktes cave system (northern Greece): a stratigraphical and environmental magnetism approach. *Acta Carsologica* 43/1, 43–54, **2014**.
27. Voudouris, K., Melfos, V., **Aidona, E.**, Kazakis, N., Giouri, K., Stratis, J. Arsenic concentration in groundwater and sediments of Velestino area, Thessaly, central Greece. *Proc. 10th Int. Hydrogeological Cong. Greece, Thessaloniki*, DOI: 10.13140/2.1.4760.3205 Vol.:1, 759-770, **2014**.
28. Kondopoulou, D., Rathossi, C., **Aidona, E.**, Fanjat, G., Tema, E., Efthimiadis K. Intensity of the Earth's magnetic field in prehistoric Macedonia: a multidisciplinary approach for material selection. *Proc. Int. Conf. 'A Century of Research in Prehistoric Macedonia 1912-2012'*, 223-232, **2014**.
29. Kondopoulou, E. **Aidona, N.** Ioannidis, G.S. Polymeris, S. Tsolakis. Archaeomagnetic study and thermoluminescence dating of Protobyzantine kilns (Megali Kypsa, North Greece). *J. Arch. Sci: Reports*, 2, 156–168, **2015**.
30. **Αηδονά, Ε.**, Κοντοπούλου, Δ., Τουφεξής, Γ., Τσεργά Κ., Παπανικολάου Ε. Αρχαιομαγνητική μελέτη καμένων δομών από το Νεολιθικό οικισμό Βασιλή (Ν. Λάρισας). *Πρακτικά 4^ο Αρχαιολογικού έργου Θεσσαλίας και Στερεάς Ελλάδας* 4/ II, 169-176, **2015**.
31. Συρίδης, Γ., **Αηδονά, Ε.**, Βουβαλίδης, Κ., Παπακωνσταντίνου, Μ.-Φ., Πεχλιβανίδου, Σ., Κουτσοκέρα, Ν. Ιζηματογενείς καταγραφές ανθρωπογενών και φυσικών διεργασιών στον προϊστορικό οικισμό της Αγίας Παρασκευής Λαμίας. *Πρακτικά 4^ο Αρχαιολογικού έργου Θεσσαλίας και Στερεάς Ελλάδας* 4/ II, 893-899, **2015**.

32. Bourliva, A., Papadopoulou, L., **Aidona, E.** Heavy metal content and health risk associated with magnetic particles in urban road dusts from Thessaloniki city center, Greece: preliminary results *Proc. 14th Int. Conf. Environ. Sci. Techn.*, Rhodes, Greece, 3-5 September **2015**.
33. Kondopoulou, D., **Aidona, E.** Archaeomagnetic method as a dating tool: application to Greek archaeological sites from prehistoric to byzantine periods. In *'Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes'*, Archaeopress Publishing Ltd, 197-207, **2015**.
34. **Αηδονά, Ε.**, Κοντοπούλου Δ. Αρχαιομαγνητική μελέτη στο νεολιθικό σπίτι της Σωσάνδρας. Στο *'Νεολιθικό Σπίτι της Σωσάνδρας'* της Α. Γεωργιάδου, University Studio Press, 1-166, **2015**.
35. Bourliva, A., Papadopoulou, L., **Aidona, E.**, Pipera, K. Rare elements (Zr, Nb, La, Ce and Hf) in traffic emitted ferrimagnetic particles from road dusts. *Bull. Geol. Soc. Greece*, 2100-2107, **2016**.
36. Karadimou, G., Vouvalidis, K., Syrides, G., Koukousioura, O., **Aidona, E.** Geomorphological and paleoenvironmental changes of Ismarida lake during Holocene (N. Greece). *Bull. Geol. Soc. Greece*, 424-433, **2016**.
37. Triantaphyllou, M.V., Pavlopoulos, K.P., Kouli, K., Koukousioura, O., Dimiza, M.D., **Aidona, E.**, Syrides, G., Pallikarakis, A., Goiran, J.-P., Fouache, E. Multiproxy paleoenvironmental reconstruction: the Piraeus coastal plain case study. *Bull. Geol. Soc. Greece*, 478-487, **2016**.
38. Bourliva, A., Papadopoulou, L., **Aidona, E.** Study of road dust magnetic phases as the main carrier of potentially harmful trace elements. *Sci. Total Environ.* 553, 380-391, **2016**.
39. **Aidona, E.**, Grison, H., Petrovsky, E., Kazakis, Papadopoulou, L., Voudouris, K. Magnetic characteristics and trace elements concentration in soils from Anthemountas river basin (North Greece): discrimination of different sources of magnetic enhancement. *Environ. Earth Sci.*, 75:1375, **2016**.
40. Bourliva A., Papadopoulou L., **Aidona E.**, Simeonidis, K., Vourlias, G., Devlin, E., Sanakis, Y. Enrichment and oral bioaccessibility of selected trace elements in fly ash derived magnetic components. *Environ. Sci. Poll. Res.*, **2016**.

41. Κυπαρίσση, Ν., **Αηδονά, Ε.**, Πολυμέρης, Γ. Μαγούλα Ίμβρου πηγάδι (Νέο Μοναστήρι Φθιώτιδας): «Οι πρώτοι νεολιθικοί κλίβανοι. Εκτίμηση για τη λειτουργία τους στην ευρύτερη νεολιθική κοινότητα της περιοχής. *Πρακτικά Διεθνούς Επιστημονικού Συνεδρίου 'Τα Φάρσαλα και η ευρύτερη περιοχή τους. Ιστορικά και αρχαιολογικά δεδομένα από τους προϊστορικούς έως και τους νεότερους χρόνους'*, **2016**.
42. Genevey, A., Kondopoulou, D., Petridis, P., **Aidona, E.**, Muller, Blonde, F., Gros, J.S. New constraints on geomagnetic field intensity variations in the Balkans during the Early Byzantine period from ceramics unearthed at Thasos and Delphi, Greece. *J. Arch. Sci: Reports*, 21,952-961, **2018**.
43. Bourliva, A., Papadopoulou, L., **Aidona, E.**, Giouri, K., Simeonidis, K., Vourlias, G. Characterization and geochemistry of technogenic magnetic particles (TMPs) in contaminated industrial soils: Assessing health risk via ingestion. *Geoderma*, 295, 86-95, **2017**.
44. Kondopoulou, D., Lanos, Ph., Evans, T., Tema, E., **Aidona E.**, and de Marco, E. Archaeomagnetic dating: examples from Eubea-Attica and the missing link between central Greek mainland and the islands. *Proc. Int. Sci. Conf.: An island between two worlds: the archaeology of Euboea from prehistoric to byzantine times*, 183-194, **2017**.
45. **Aidona, E.**, Polymeris, G., Camps, P., Kondopoulou, D., Ioannidis, N., Raptis, K. Archaeomagnetic versus Luminescence Methods: The case of an Early Byzantine Ceramic Workshop in Thessaloniki, Greece. *Arch. Anthropol. Sci.*, 10: 725-741, **2018**.
46. Kondopoulou, D., Gomez-Paccard, M., **Aidona, E.**, Rathossi, Ch., Carvallo, C., Tema, E., Efthimiadis, K.G., Polymeris, G.S. Investigating the archaeointensity determination success of prehistoric ceramics through a multidisciplinary approach: new and re-evaluated data from Greek collections. *Geophys. J. Int.*, 210, 3, 1450-1471, **2017**.
47. Bourliva, A., Papadopoulou, L., **Aidona, E.**, Giouri, K.. Magnetic signature, geochemistry, and oral bioaccessibility of 'technogenic' metals in contaminated

- industrial soils from Sindos Industrial Area, Northern Greece. *Environmental Science and Pollution Research*, 24; 17041-17055, **2017**.
48. Bourliva, A., Kantiranis, N., Papadopoulou, L., **Aidona, E.**, Christophoridis, C., Kollias, P., Evgenakis, M., Fytianos, K. Seasonal and spatial variations of magnetic susceptibility and potentially toxic elements (PTEs) in road dusts of Thessaloniki city, Greece: A one-year monitoring period. *Sci., Total, Environ*, 639, 417-427, **2018**.
49. Cuenca-Garcia C, Armstrong K, **Aidona E**, De Smedt P, Rosveare A, Rosveare M, Schneidhofer P, Wilson C, Faßbinder J, Moffat I, Sarris A, Scheiblecker M, Jrad A, van Leusen M, Lowe K. The soil science & archaeo-geophysics alliance (SAGA): going beyond prospection. *Research Ideas and Outcomes* 4: e31648. <https://doi.org/10.3897/rio.4.e31648>, **2018**.
50. Kelepertzis, E., Argyraki, A., Botsou F., **Aidona, E.**, Szabo, A., Szabo, C., Tracking the occurrence of anthropogenic magnetic particles and potentially toxic elements (PTEs) in house dust using magnetic and geochemical analyses. *Environmental Pollution*, 245, 909-920, **2019**.
51. Koukousioura, O., Dimiza, M., Kyriazidou E., Triantaphyllou, M., Syrides, G., **Aidona, E.**, Vouvalidis, K., Panagiotopoulos, I., Papadopoulou, L. Environmental evolution of the Paliouras coastal lagoon in the eastern Thermaikos gulf (Greece) during Holocene. *Environmental Earth Sciences*, 78: 313, **2019**.
52. Santos, Y., Kondopoulou, D., Papadopoulou, L., Saridaki, N., **Aidona, E.**, Rathossi, C., Serletis, C. An archaeometric contribution to the study of Late Classic-Hellenistic ceramics of Northern Greece. *Journal of Archaeological Science: Reports*, 29, **2020**.
53. Benammi, M., **Aidona, E.**, Merceron, G., Koufos, G.D., Kostopoulos, D.S. Magnetostratigraphy and Chronology of the Lower Pleistocene Primate Bearing Dafnero Fossil Site, N. Greece. *Quaternary*, 3, 22; doi:10.3390/quat3030022, **2020**.
54. Koukousioura, O., Kouli, K., Vouvalidis, K., **Aidona, E.**, Karadimou, G., Syrides, G. A multi-proxy approach for reconstructing environmental dynamics since the mid Holocene in Lake Ismarida (Thrace, N. Greece). *Revue de micropaléontologie*, 68, 100443, **2020**.

55. Konidakis, G., Kostopoulos, D.S., Maron, M., Schaller, M., Ehlers, T., **Aidona E.**, Marini, M., Tourloukis, V., Muttoni, G., Koufos, G., Harvati K. Dating of the Lower Pleistocene Vertebrate Site of Tsiotra Vryssi (Mygdonia basin, Greece): Biochronology, Magnetostratigraphy, and Cosmogenic radionuclides. *Quaternary*, 4, 1, doi.org/10.3390/quat4010001, 2021.
56. Rivero-Montero, M., Gómez-Paccard, M., Kondopoulou, D., Tema, E., Pavón-Carrasco, F.J., **Aidona, E.**, Campuzano, S.A., Molina-Cardín, A., Osete, M.L., Palencia-Ortas, A., Martín-Hernández, F., Rubat-Borel, F., Venturino, M. Geomagnetic field intensity changes in the Central Mediterranean between 1500 BCE and 150 CE: Implications for the Levantine Iron Age Anomaly evolution. *Earth and Planetary Science Letters*, 557, 116732, **2021**.