

Short CURRICULUM VITAE

Name: Paraskevas (Paris) XYPOLIAS
Employment: University of Patras (Greece),
Laboratory of Structural Geology and
Tectonics
Current position: Assistant Professor
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EDUCATION AND DEGREES CONFERRED

1995 Degree in Geology, University of Patras, Department of Geology, Greece
2000 PhD degree with specialization in Structural Geology and Tectonics, University of Patras,
Department of Geology, Greece

COURSES

Structural Geology, Geological Mapping, Application of Remote Sensing in Geology, Computer applications for Geologists, Mapping and Remote Sensing techniques for Biologists

RESEARCH INTERESTS

Orogenic evolution of the Hellenides, Exhumation mechanisms of high-pressure metamorphic rocks, qualitative and quantitative analysis of deformation in micro- to crustal-scale shear zones, deformation mechanism and rheology, neotectonics, active faults evolution.

SUMMARY OF SCIENTIFIC PRODUCTION AND IMPACT

Refereed Publications – Papers: 32

Total number of citations (self-citations excluded): 220

(Sources: Scopus - Elsevier B.V. & ISI - Thomson Scientific)

Abstracts in conferences and workshops: 33

EDITORIAL AND REVIEWING ACTIVITIES

- Guest Editor in *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften* (2008/Band 3)
- Reviewer for the: *Journal of Structural Geology*, *Tectonophysics*, *Terra Nova*, *Lithosphere*, *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften*, *Geological Society Special Publications* (London).

PUBLICATION LIST

Papers – submitted / in revision:

- Chatzaras, V., Dörr, W., Finger, F., **Xypolias, P.**, Zulauf., G. 2012. U-Pb zircon ages, geochemistry and structural development of felsic orthogneiss in the Cycladic massif (Evia Island): implications for the Triassic tectonic setting of Greece. *Tectonophysics*, submitted.
- Kaplanis, A., Koukouvelas I., **Xypolias, P.**, Kokkalas, S. 2012. Kinematics and Ophiolite obduction in the Gerania and Helicon Mountains, central Greece. *Tectonophysics*, submitted.
- Kokkalas, S., Kamberis, E., **Xypolias, P.**, Sotiropoulos S., Koukouvelas I. 2011. Coexistence of thin- and thick-skinned tectonics in Zakynthos area (Western Greece): insights from seismic sections and regional seismicity. *Tectonophysics*, submitted.
- Zygouri, V., Koukouvelas, I., Kokkalas, S., **Xypolias, P.**, Papadopoulos, G.A. 2011. Morphotectonic and Paleoseismological study of a Quaternary Fault: the case of Nisi Fault, NWPeloponnese, Greece. *Geomorphology*, submitted.

Papers - in press / published:

32. **Xypolias, P.**, Iliopoulos, I., Chatzaras, V., Kokkalas, S. 2012. Subduction- and exhumation-related structures in the Cycladic Blueschists: insights from Evia Island (Aegean region, Greece). *Tectonics*, 31, TC2001.
31. Chatzaras, V., **Xypolias, P.**, Kokkalas, S., Koukouvelas, I. 2011. Ductile to brittle thrusting in central Aegean: insights from the Cycladic island of Amorgos. *Geological Journal*, 46, 619-636.
30. **Xypolias, P.** 2010. Vorticity analysis in shear zones: a review of methods and applications. *Journal of Structural Geology*, 32, 2072-2092.
29. **Xypolias, P.**, Spanos, D., Chatzaras, V., Kokkalas, S., Koukouvelas, I. 2010. Vorticity of flow in ductile thrust zones: examples from the Attico-Cycladic Massif (Internal Hellenides, Greece). In: Law, R., Butler, R., Holdsworth, B., Krabbendam, M., Strachan, R. (eds) Continental Tectonics and Mountain Building. *Geological Society, London, Special Publications*, 335, 687-714.
28. Iacopini, D., Carosi, R., **Xypolias, P.** 2010. Implication of complex Eigenvalues in homogeneous flows: a three dimensional kinematic analysis. *Journal of Structural Geology*, 32, 93-106.
27. **Xypolias, P.**, Chatzaras, V. 2010. The nature of ductile deformation in the Phyllite-Quartzite unit (External Hellenides). *Bulletin of the Geological Society of Greece*, 43, 387-397.
26. Spanos, D., Koukouvelas, I., Kokkalas, S., **Xypolias, P.** 2010. Patterns of ductile deformation in Attico-Cycladic Massif. *Bulletin of the Geological Society of Greece*, 43, 368-378.
25. Koukouvelas, I., Kokkalas, S., **Xypolias, P.** 2009. Surface deformation during the Mw 6.4 (June 08, 2008) Movri Mt earthquake, Greece. *International Geology Review*, 52, 249-268.
24. **Xypolias, P.** 2009. Some new aspects of kinematic vorticity analysis in naturally deformed quartzites. *Journal of Structural Geology*, 31, 3-10.
23. Zygouri, V., Verrios, S. Kokkalas, S., **Xypolias, P.**, Koukouvelas, I., Papadopoulos, G. 2008. Growth of faults within the gulf of Corinth. *Bulletin of the Geological Society of Greece*, 41, 25-33.

22. Koukouvelas, I., Kokkalas, S., **Xypolias, P.** 2008. Paleoseismic investigations along a key active fault within the Gulf of Corinth, Greece. *IOP Conf. Series: Earth and Environmental Science*, 2, doi:10.1088/1755-1307/2/1/012023.
21. Zygouri, V., Verrios, S. Kokkalas, S., **Xypolias, P.**, Koukouvelas, I. 2008. Scaling properties within the Gulf of Corinth, Greece; comparison between offshore and onshore active faults. *Tectonophysics*, 453, 193-210.
20. **Xypolias, P.**, Koukouvelas, I., Zulauf, G. 2008. Cenozoic tectonic evolution of northeastern Apulia: insights from a key area in the Hellenides (Kythira, Greece). *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften*, 159, 439-455.
19. Lode, S., Romer, T., Völs, S., **Xypolias, P.**, Zulauf, G. 2008. The pre-Alpine basement of Kythira (Greece). *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften*, 159, 457-468.
18. Romer, T., Völs, S., Schulz, B., **Xypolias, P.**, Zulauf, G., Finger, F. 2008. Metamorphism and P-T paths of the pre-Alpine basement and the Phyllite-Quartzite unit s.str. of Kythira (External Hellenides, Greece). *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften*, 159, 469-484.
17. **Xypolias, P.**, Chatzaras, V., Koukouvelas, I. 2007. Strain gradients in zones of ductile thrusting: insights from the External Hellenides. *Journal of Structural Geology*, 29, 1522-1537.
16. Kokkalas, S., **Xypolias, P.**, Koukouvelas, I. 2006. Structural evolution and kinematics in the contact zone between Serbomacedonian and Rhodope massifs, central Macedonia, Greece. *Bulletin of the Geological Society of Greece*, 37, 143-152.
15. Chatzaras, V., **Xypolias, P.**, Doutsos, T. 2006. Exhumation of high-pressure rocks under continuous compression: a working hypothesis for southern Hellenides (central Crete, Greece). *Geological Magazine*, 143, 859-876.
14. **Xypolias, P.**, Kokkalas, S. 2006. Heterogeneous ductile deformation along a mid-crustal extruding shear zone: an example from the External Hellenides (Greece). In: Law, R.D., Searle, M., Godin, L. (eds) Channel flow, ductile extrusion and exhumation of lower-mid crust in continental collision zones. *Geological Society, London, Special Publications*, 268, 497-516.
13. Doutsos, T., Koukouvelas, I., **Xypolias, P.** 2006. A new orogenic model for the External Hellenides. In: Robertson, A.H.F., Mountrakis, D. (eds) Tectonic evolution of the Eastern Mediterranean regions. *Geological Society, London, Special Publications*, 260, 507-520.
12. Kokkalas, S., **Xypolias, P.**, Koukouvelas, I., Doutsos, T. 2006. Post-collisional contractional and extensional deformation in the Aegean region. In: Dilek, Y. & Pavlides, S. (eds) Post-Collisional Tectonics & Magmatism in the Eastern Mediterranean Region. *Geological Society of America, Special Papers*, 409, 97-123.
11. **Xypolias, P.**, Dörr, W., Zulauf, G. 2006. Late Carboniferous plutonism within the pre-Alpine basement of the External Hellenides (Kythira, Greece): evidence from U-Pb zircon dating. *Journal of the Geological Society, London*, 163, 539-547.
10. **Xypolias, P.**, Koukouvelas, I. 2005. Paleostress magnitude in a Fold-Thrust Belt (External Hellenides, Greece): evidence from twinning in calcareous rocks. *Episodes*, 28, 245-251.
9. Koukouvelas, I., Katsonopoulou, D., Soter, S., **Xypolias, P.** 2005. Slip rates on the Helike Fault, Gulf of Corinth, Greece: new evidence from geochronology. *Terra Nova*, 17, 158-164.
8. Kostakioti, A., **Xypolias, P.**, Kokkalas, S., Doutsos, T. 2004. Quantitative analysis of deformation along the fault damage zone of the Klimatia thrust (NW Greece, Ionian zone). *Bulletin of the Geological Society of Greece*, 36, 1643-1651.
7. **Xypolias, P.**, Koukouvelas, I. 2004. Fault trace parameters as a tool for analysing remotely sensed fault arrays: an example from the eastern Gulf of Corinth. *International Journal of*

Remote Sensing, 25, 4685-4699.

6. Kokkalas, S., **Xypolias, P.**, Koukouvelas, I., Doutsos, T. 2003. Relationships between folding and fracturing: Examples from the Rhenohercynian Zone (Germany) and the external Hellenides (Greece). *Geologica Carpathica*, 54, 153-162.
5. **Xypolias, P.**, Kokkalas, S., Skourlis, K. 2003. Upward extrusion and subsequent transpression as a possible mechanism for the exhumation of HP/LT rocks in Evia Island (Aegean Sea, Greece). *Journal of Geodynamics*, 35, 303-332.
4. **Xypolias, P.**, Koukouvelas, I. 2001. Kinematic vorticity and strain rate patterns associated with ductile extrusion in the Chelmos Shear Zone (External Hellenides, Greece). *Tectonophysics*, 338, 59-77.
3. **Xypolias, P.** 2001. The rheological properties of rocks in a compressional ductile shear zone, Phyllite-Quartzite Series, Peloponnese. *Bulletin of the Geological Society of Greece*, 34, 353-360.
2. Doutsos, T., Koukouvelas, I., Poulimenos, G., Kokkalas, S., **Xypolias, P.**, Skourlis, K. 2000. An exhumation model of the south Peloponnese, Greece. *International Journal of Earth Science*, 89, 350-365.
1. **Xypolias, P.**, Doutsos, T. 2000. Kinematics of rock flow in a crustal scale shear zone: implication for the orogenic evolution of the SW Hellenides. *Geological Magazine*, 137, 81-96.