

Curriculum Vitae

Dr. Fatma KOURIM

Born October 11, 1982

Algerian Citizen, hold 10 years French resident and Taiwan APRC resident

✉ Institute of Earth Sciences, 128 Section 2 Academia Road, Nangang, Taipei, Taiwan

☎ Mobile: 886-9-05 29 77 34 / Work: 886-2-27 83 99 10 ext 618 @ k.fatna@gmail.com

EDUCATION & RESEARCH & WORK EXPERIENCE

2016-2022 **Post-doc fellow at Academia Sinica: Petrology-Mineralogy-Geochemistry**

- At the Institute of earth science in Academia Sinica, my main research project is about microstructures, deformation mechanisms and the rheological and geochemical evolution of the lithospheric mantle from different geological context: Central Asian Belt, Arabian-Nubian Shield and South China Bloc.
- **09/08/2018 to -08/09/2018, visiting Fellow** in department of Earth and Planetary Sciences, Graduate School of Environmental Studies, Nagoya University, Japan.
- **05/07/2018 to 05/08/2018, Oman Drilling Project Phase 2 Leg3 detailed core description, on board Chikyu research vessel, Japan.** As geochemistry team lead, I contribute to a detailed, IODP-standard logging of 2000m of core from Oman Ophiolites (sites CM1A and CM2B; Gabbro and peridotites). The results will be published as an initial Reports Volume of OmanDP Phase 2 along with wireline logging data from all drilled in Phase2.
- **15/08/2017 to 15/09/2017, Oman Drilling Project Phase 1 Leg2 detailed core description, on board Chikyu research vessel, Pacific Ocean, Japan.** As part of leg2 shipboard Geochemistry team scientist member I contributed to IODP-standard detailed logging of 1500m core from Oman Ophiolites (sites BT1B, Lisvenites and basal thrust and GT3, dyke-gabbro transition). The results will be published as an initial Reports Volume of OmanDP Phase 1 along with wireline logging data from all sites drilled in Phase1.
- **14/03/2017 to 14/04/2017, visiting Fellow** in GEMOC National Key Center (now part of the ARC Centre of Excellence for Core to Crust Fluid Systems CCFS) in department of Earth and Planetary Sciences in the Faculty of Science of Macquarie University.

2014-2015

Post-doc as non-permanent faculty (research and teaching Assistant-ATER-):

- **Sep 2014-Jun 2015 (10 month):** University Jean Monnet Saint-Etienne, France. (40% to teaching, 40% to research, 20% administrative activities).
- **Fab-July 2014 (6 month):** University of Franche-Comté, France. (30% to teaching, 50% to research, 20% administrative).

Research activity:

- At the University Jean Monnet Saint-Etienne my research focuses on characterization of deformation mechanisms and hydration of the lithospheric mantle beneath Kaapvaal craton. Exploiting fabrics, water measurements and geochemistry, in collaboration with J. Bascou and B. Moine. We attend to explain the microstructures variation observed in Kimberley mantle xenoliths. The crystallographic preferred orientation (CPO) on olivine, pyroxenes and garnet in 8 mylonites has been measured using the SEM-EBSD facility in Geosciences Montpellier. FTIR spectrometry analyses were performed at Laboratoire Magmas et Volcans, Clermont-Ferrand (France), water content measurements have been performed during Theo Mourier L3 research training (undergraduate student L3, 3 weak research training) supervising: F. Kourim, N. Bolfan-Casanova and B.Moine.

- Similarly, the Edggeri (Hoggar) mantle xenoliths microstructure are investigated combining fabrics and geochemistry studies and in collaboration with J. Bascou (Laboratoire Magmas et Volcans Saint-Etienne) and O. Alard, J.-L. Bodinier and A. Vauchez (Geosciences Montpellier). The aim of this collaborative project is to characterize the structure, composition and evolution of the continental lithospheric mantle, and asthenosphere-lithosphere interactions beneath the Edggeri district (Hoggar), which is the subject of large scientific debates about Mantle plume.

- During my research stays at the university of Franche-Comté, I finalized my publications about the characterization of the lithospheric mantle of the Hoggar swell and its evolution through time.

Teaching activity:

Teaching in the Earth Sciences program;

- Structural geology (cartography, stereographic projection, geomorphology) – Bachelor's degree (License years 1, 2 and 3)
- Igneous petrography, mineralogy, geochemistry - Bachelor's degree (License years 1 and 2)
- Geology 3D (2D and 3D modeling using Surfer 9 and ImageJ software) - Bachelor's degree (License year 1)
- Field rock management (Massif central, Massif de la Serre, Besançon) - Bachelor's degree (License years 1 and 2)
- Supervision of undergraduate and graduate students' research training

Administrative activity:

Substitute representative of non-permanent staff of the Jean Monnet university, Saint Étienne.

2010-2013 **PhD** in Geochemistry-Petrography-Petrophysic at “Géosciences Montpellier”, University of Montpellier 2 –France-.

Lithospheric architecture and mantle dynamics beneath the Hoggar: message from mantle xenoliths. Major and trace element chemistry-rare earth element modeling - Microstructures and petrography of igneous petrology- Crystallographic fabric and strain repartition. Supervisor: Pr. J.L. Bodinier and Dr. O. Alard. In collaboration with A. Bendaoud, J.M. Dautria and A. Vauchez.

2009-2012 **Magister** (master degree) in Geochemistry-Petrography-Thermobarometry-Structural geology, at University of Sciences and Technologies Houari Boumediene -USTHB, Algeria-.

Research training: University of Sciences and Technologies Houari Boumediene (USTHB), Algier, Algeria. Supervisor: Pr. K. Ouzegane. Pressure and temperature evolution of the Tirek terrane (Hoggar Algeria) during the Pan African. Petrology, mineralogy and microstructures of crustal rocks - Mineralogy- Petrogenesis of metamorphic rock and Thermobarometry estimates – Zircon U/Pb Geochronology.

2009-2010 **Junior Geologist;** Undertaken Mining Gold (ENORspa), Southern Algeria. Development of new systems in production, mapping and modeling of the mineralization, reserve evaluation, supervision of mining gold, Structural geology.

2001-2007 **Engineering** in Petrography-Geochemistry-Geodynamic, At the University of Sciences and Technologies Houari Boumediene -USTHB, Algeria-.

Research training: Geodynamics, Engineering Geology and Planetology Laboratory at University of Sciences and Technologies Houari Boumediene (USTHB), Algeria. Supervisor, Dr. A. Bendaoud. Paragenesis, mineralogical and P-T evolution of garnet-quartz-plagioclase and orthopyroxene pyrigarnites, and silicato calsic metabasinites from Tamanrasset, Tin Amzi and Tidjénouine, Central Hoggar, Algeria. Structural geology - Microstructures, mineral assemblages and metamorphic reactions deduced from the rocks - Pressure and Temperature changes in metamorphic rock.

KEY SKILLS

Analytical Methods

Confirmed user

EPMA, XRF, ICP-MS, LA-ICP-MS, SEM-EBSD,
Electron microprobe, Optical microscopy,

Occasional user

FTIR

Basic knowledge

SIMS and MC-ICP-MS.

Laboratory

Confirmed user

Preparation of materials: Grinding powders / mineral separation / "wet chemistry" (etching solution preparation, separation by column chromatography) / polishing techniques

Computer Technology

Confirmed user

Percol-1D. 0D-modal (geochemistry modeling software)
Minpet, GTP, Tridrw (graphic software)
MatLab for MText, Channel 5 (EBSD software)
Glitter (La-ICP-MS software)
MS Office, Endnote, Adobe

Languages

Arabic: native French: native English: working knowledge

FIELD TRIPS

Algeria (Hoggar, Atlas Telienne and Atlas Sahrienne), France (Massif de Lherz, Massif de la Serre, and Besançon), Morocco (Rif, middle Atlas), Taiwan (Est Taiwan Ophiolite, Yuli, Penghu, Lanyu, and Lutao mantle xenoliths), Oman (Samail ophiolite).

ICDP EXPERIENCES

- **05/07/2018 to 05/08/2018, Expedition 807:** Oman Drilling Project Phase 2 Leg3 detailed core description, on board Chikyu research vessel, Pacific Ocean, Japan. Position: **Lead geochemistry group**. Mission: perform detailed, IODP-standard logging and characterization of 2000m drilled cores from Oman Ophiolites; hole CM1A and CM2B (olivine gabbro, gabbro, dunite, harzburgite and wehrlite, associated with minor gabbro-norite, troctolite, websterite, anorthosite, and chromitite).
- **15/08/2017 to 15/09/2017, Expedition 805:** Oman Drilling Project Phase 1 Leg2 detailed core description, on board Chikyu research vessel, Pacific Ocean, Japan. Position: **Geochemistry group scientist member**. Mission: perform detailed, IODP-standard logging and characterization of 1500m drilled cores from Oman Ophiolites; hole BT1 (Lisvenites and basal thrust) & hole GT3 (dyke-gabbro transition).

JOURNAL PAPERS

Oya, S. Michibayashi, K. Ohara, Y. Martinez, F. **Kourim**, F. Lee, H.-y. (2022): Peridotites of back-arc origin from the 139°E Tectonic Ridge at the southwestern tip of the Mariana forearc. Current status: Accepted by PEPS (OA JpGU journal).

Rospabé, M. **Kourim**, F. Tamura, A. Ishii, K. Giampouras, M. Chatterjee, S. Ishii, K. Cooper, M.-J. Godard, M. Carter, E. Abe, N. Moe, K. and Teagle, D-A-H. (2022) Ship-board determination of whole-rock (ultra-)trace element concentrations by LA-ICP-MS analysis of pressed powder pellets aboard the D/V Chikyu. DOI: <http://dx.doi.org/10.5194/sd-30-75-2022>

Kourim, F. Wang K-L. Lafay R. Beinlich A. Chieh C-J. Michibayashi K. Kovach V. Yarmolyuk V. Iizuka Y. (2021) Metasomatism of the off-cratonic lithospheric mantle beneath Hangay Dome,

Mongolia: Constraints from trace-element modelling of lherzolite xenoliths. *Lithos*, DOI: 10.1016/j.lithos.2021.106407.

Kourim, F. Rospabé, M. Giampouras, M. Chatterjee, S. Ishii, K. Tamura, A. Dygert, N. Oyanagi, R. Wang, K.-L. Godard, M. Benoit, M. Michibayashi, K. Teagle, D.-A.-H. Takazawa, E. Kelemen, P. Coggon, J. Lee H-Y. (2021): First geochemical and mineralogical results of Oman Crust-Mantle transition: holes CM1A and CM2B characterization aboard DV-Chikyu_ Oman Drilling Project, Phase 2 Leg3. Current status: accepted by JGR-Solid Earth special issue on ophiolites and Oceanic Lithosphere.

Godard, M. Carter, E. Decrausaz, T. Lafay, R. Bennett, E. **Kourim, F.** de Obeso, J.-C. Michibayashi, K. Harris, M. Coggon, Teagle, D.-A.-H. Kelemen, P. and the Oman Drilling Project Phase 1 Science Party (2021): Geochemical Profiles across the Listvenite-Metamorphic Transition in the Basal Megathrust of the Semail Ophiolite: Results from Drilling at Oman DP Hole BT1B. DOI: <https://doi.org/10.1029/2021JB022733>

Kelemen, P.B. Matter, Teagle, D. Coggon, J. **Kourim, F.** and the Oman Drilling Project (2021): Site CM1: Layered gabbros, crustal ultramafic rocks, and mantle harzburgite. *Proceedings of the Ocean Drilling Program: Scientific Results*.

Kelemen, P.B. Matter, Teagle, D. Coggon, J. **Kourim, F.** and the Oman Drilling Project (2021): Site CM2: Crust-Mantle Transition Zone and into Upper Mantle. *Proceedings of the Ocean Drilling Program: Scientific Results*.

Kelemen, P.B. Matter, Teagle, D. Coggon, J. **Kourim, F.** and the Oman Drilling Project (2020): Methods and Explanatory Notes. *Proceedings of the Ocean Drilling Program: Scientific Results*.

Beinlich A. Plümper O. Boter E. Müller I.-A. **Kourim F.** Ziegler M. Harigane Y. Lafay R. Kelemen P. (2020) Low-temperature ultramafic rock carbonation: Constraints from Listvenite core BT1B (Oman Drilling Project). *JGR special issue on ophiolites and Oceanic Lithosphere*. DOI: 10.1029/2019JB019060

Kourim, F. Beinlich, A. Wang, K.-l. Michibayashi, K. O'Reilly, Y.-S. Pearson, N. (2019): Feedback of mantle metasomatism on olivine micro-fabric and seismic properties of deep lithosphere. *Lithos*, DOI: <https://doi.org/10.1016/j.tecto.2014.11.012>

Kelemen, P.B. Aines, R. Bennett, E. Benson, S.M. Carter, E. Coggon, J.A. de Obeso, J.C. Evans, O. Gadikota, G. Dipple, G.M. Godard, M. Harris, M. Higgins, J.A. Johnson, K.T.M. **Kourim, F.** Lafay, R. Lambert, S. Manning, C.E. Matter, J.M. Michibayashi, K. Morishita, T. Noël, J. Okazaki, K. Renforth, P. Robinson, B. Savage, H. Skarbek, R. Spiegelman, M.W. Takazawa, E. Teagle, D. Urai, J.L. Wilcox, J. and the Oman Drilling Project Phase 1 Scientific Party. (2018): In situ carbon mineralization in ultramafic rocks: Natural processes and possible engineered methods. *Energy Procedia*, DOI: <https://doi.org/10.1016/j.egypro.2018.07.013>

Kourim, F. Vauchez, A. Bodinier, J.-L. Alard, O. Bendaoud, A. (2015): Neogene reworking of the Neoproterozoic lithosphere at the edge of the Ahaggar swell (Algeria): Localized deformation channelizing melt transfer and heat advection. *Tectonophysics*, DOI: <http://dx.doi.org/10.1016/j.tecto.2014.11.012>

Kourim, F., Alard, O. Bendaoud, A., Bodinier, J.-L. Dautria, J.-M. Vauchez, A. (2014): Nature and evolution of the lithospheric mantle beneath the Hoggar swell (Algeria): a record from mantle xenoliths. *Journal of Petrology*, DOI: 55-11/2249-2280, doi:10.1093/petrology/egu056

Under review papers /Submitted papers

Kourim, F. Rospabé, M. Giampouras, M. Chatterjee, S. Ishii, K. Tamura, A. Dygert, N. Oyanagi, R. Wang, K.-L. Godard, M. Benoit, M. Michibayashi, K. Teagle, D.-A.-H. Takazawa, E. Kelemen, P. Coggon, J. Lee H.-Y. (2021): Lithology, volatile, major and trace element composition of Holes CM1A and CM2B ultramafic samples drilled in Wadi Tayin massif, SE Oman ophiolite (ICDP Oman drilling project Phase 2 Leg 3). Current status: under review at Pangaea Data Publisher for Earth & Environmental Science.

Papers in preparation

Kourim, F. Michibayashi K. Wang K.-L. Beinlich A. (2022-2023) Feedback between deformation, static recrystallization and melt-percolation of the lithospheric mantle beneath Northern Hangay Dome. Current status: to be submitted to Minerals, Special issue: Petrology and Geochemistry of Igneous Complexes and Formations. Submission deadline: 30 April 2022

Kourim, F. Michibayashi, K. Wang, K.-L. Jürgen, k. Kelemen, P. Kakihata, Y. and Oman Drilling Project Phase 2 Science Party (2022-2023) ICDP_ Exp. 807: First Texture and microstructures characterization of Oman Crust-Mantle transition; holes CM1A and CM2B. Current status: in preparation to be submitted to Lithos special issue on ophiolites and Oceanic Lithosphere.

Kourim, F. Moin, B. Bascou, J. and Costin, G. (2023): The Implication of deformation, hydration and melt/ fluid percolation in the mantle strain localization: Kimberley sheared xenoliths producing mechanism (Kaapvaal craton). Current status: in preparation.

Chien, Y.-H. **Kourim, F.** Wang, K.-L. Chung, S.-L. Kuzmin, M. Vorontsov, A. Ivanov, A. Iizuka, Y. and (2023): Geochemical characteristics of peridotite xenoliths from the Vitim basalt plateau, SE Siberia. Current status: in preparation.

BOOKS

ICDP_805 and ICDP_807 Oman Drilling Project ICDP Expeditions reports (Kelemen et al., 2021a, 2021b). <https://www.omandrilling.ac.uk/>

Kourim, F. (PhD thesis, 2013): Lithospheric architecture and mantle dynamics beneath the Hoggar: message from mantle xenoliths. Géosciences Montpellier, University of Montpellier 2 – France-. Supervisor: Pr. J.L. Bodinier and Dr. O. Alard. In collaboration with A. Bendaoud, J.M. Dautria and A. Vauchez. (200p.)

Kourim, F. (Magister thesis, 2012): Pressure and temperature evolution of the Tirek terrane (Hoggar Algeria) during the Pan African. University of Sciences and Technologies Houari Boumediene -USTHB, Algeria-. Supervisor: Pr. K. Ouzegane. (160p)

Under review Book

Kourim, F. Alard, O. Vauchez, A. Bodinier, J.-L. Bascou, J. (2021): Deformation, metasomatism and melt-rock interaction of the lithospheric mantle beneath the Hoggar swell (Algeria) from Eggéré and Manzaz mantle xenoliths study. Current status: under review at Springer, Lithospheric Architecture and Precambrian Geology of the Hoggar and the Adjacent Areas. Editors Hamoudi, M., Bendaoud, A., Bodinier, J.-L., Ouzegane, K., Perfettini, H. (Eds.). <https://www.springer.com/la/book/9783319702490>

COMMUNICATIONS

Kourim, F., Katsuyoshi Michibayashi, K., Wang K-L., Koepke, J., Kaczmarek M-A., Kelemen, P., Kakihata, Y., Godard M., and Oman Drilling Project Phase 2 Science Party (2020). ICDP_ Exp. 807: First Texture and microstructures characterization of Oman Crust-Mantle transition; holes CM1A and CM2B. ICOOL, Muskat, Oman.

Kourim, F. Wang K-L. Beinlich A. Michibayashi K. (2019) Nature and Mechanisms of mantle metasomatism of the Tariat mantle xenoliths, central Mongolia. Goldschmidth, Spain.

Kourim, F., Rospabé, M. Giampouras, M. Chatterjee, S. Ishii, K. Tamura, A. Dygert, N. Oyanagi, R. Wang, K.-L. Benoit, M. Teagle, D.-A.-H. Takazawa, E. Kelemen, P. Coggon, J. Oman Drilling Project Phase 2 Science Party (2018) First geochemical and mineralogical results of Oman Crust-Mantle transition: holes CM1A and CM2B characterization aboard DV-Chikyu_ Oman Drilling Project, Phase 2 Leg3. AGU, Washington D.C. USA.

Kourim, F. Wang, K-l. Beinlich, A. Michibayashi, K. O'Reilly, Y-S. Pearson, N. (2018) Feedback of mantle metasomatism on olivine micro-fabric and seismic properties of deep lithosphere. GSJ, 2018 Meeting, Okinawa, Japan.

Kourim, F. Wang, K-l. Beinlich, A. Michibayashi, K. O'Reilly, Y-S. Pearson, N. (2018) Feedback of mantle metasomatism on olivine micro-fabric and seismic properties of deep lithosphere. Second Asian Pacific workshop, JAMSTEC, Yokohama, Japan.

Tamura, Y. Takazawa, E. Michibayashi, K. Ceuleneer, G. Teagle, D-A-H. Koepke, J. **Kourim, F.** Sato, T. Jude Coggon, J. Matter, J. Kelemen, P-B. Scientists Phase 2 OmanDP 9. (2018). Overview of Hole CM1 in the Oman Drilling Project Phase 2: Crust-Mantle boundary, JpGU, Japan.

De Obeso, J-C. Godard, M. Kelemen, P-B. Manning, C-E. Bennett, E. Carter, E. **Kourim, F.** Lafay, R. Noel, J. Michibayashi, K. Harris, M. Oman Drilling Project Phase 1 Science Party. (2017). Listvenite-Metamorphic sole transition in the Basal thrust of the Oman Ophiolite: Geochemical, mineralogical and reaction path model preliminary results from Oman Drilling Project Hole BT1B. JpGU, Japan.

Godard M., Bennett E., Carter E., **Kourim F.**, Lafay R., Noel J., Kelemen P., Michibayashi K., Harris M., Oman Drilling Project Phase 1 Science Party. (2017) Geochemical and mineralogical profiles across the listvenite- metamorphic transition in the basal megathrust of the Oman Ophiolite: First results from drilling at Oman Drilling Project Hole BT1B. AGU, New Orleans, USA.

KOURIM, F. Wang, K-L. Michibayashi, K. O'Reilly, S-Y. Pearson, N-J. (6-7 November 2017) Deformation, metasomatism and seismic anisotropy in the lithospheric mantle beneath Taiwan straits, south-east Asian margin: constraints from mantle xenoliths. Bor-Ming Jahn Memorial Conference (Asian Orogeny and Continental Evolution: New Advances from Geologic, Geophysical and Geochemical Perspectives), Taipei, Taiwan.

Bodinier, J-L. **Kourim, F.** El Messbahi, H. Dautria, J-M. Vauquez, A. Alard, O. Ouali, H. Brndaoud, A. Ouzegane, K. and Garriso, C. (20, 22 March 2017) Mantle xenoliths in NW Africa: a record of subcontinental lithospheric mantle evolution through time. 1st AGIC.

Kourim, F. Bodinier, J-L. Alard, O. Vauchez, A. and Basscou, J. (2016): Deformation, metasomatism and melt-rock interaction of the lithospheric mantle beneath the Hoggar swell (Algeria): Tahalgha, Eggéré and Manzas mantle xenoliths. Goldschmidth, Japan, CZ, Vol. 26.

Kourim, F. Moin, B. Bascou, J. and Costin, G. (2015): The Implication of deformation, hydration and melt/fluid percolation in the mantle strain localisation: Kimberley sheared xenoliths producing mechanism (Kaarvaal craton).Goldschmidth, Prague, CZ, Vol. 25.

Kourim, F., Bodinier, J-L., Alard, O., Bendaoud, A., Vauchez, A. and Dautria, J-M. (2014): Nature and evolution of the lithospheric mantle beneath the Ahaggar swell (Algeria): a record from mantle xenoliths. RST, Pau, France, Vol. 24.

Kourim, F., Bodinier, J-L., Alard, O., Bendaoud, A., Vauchez, A. and Dautria, J-M. (2014): Nature and evolution of the lithospheric mantle beneath the Ahaggar swell (Algeria): a record from mantle xenoliths. Orogenic Lherzolite conference. Marrakech, Morocco, Vol. 6.

Kourim, F., Bodinier, J-L., Alard, O., Bendaoud, A., Vauchez, A. and Dautria, J-M. (2013): Nature and evolution of the lithospheric mantle beneath the Ahaggar swell (Algeria): a record from mantle xenoliths. EGU General Assembly 2013. Geophysical Research Abstracts, Vol. 15, EGU2013-371.

Kourim, F., Bodinier, J-L., Alard, O., Bendaoud, A., Vauchez, A. and Dautria, J-M. (2013): Nature and evolution of the lithospheric mantle beneath the Ahaggar swell (Algeria): a record from mantle xenoliths. Fourth Crystal2Plate Workshop, Villa Clythia - Fréjus, France, 27-31.

Kourim, F., Alard, O., Bendaoud, A., Bodinier, J-L., Dautria, J-M., Ouzegane, K., Vauchez, A. et Yahiaoui, R. (2011): The mantle xenoliths from western Ahaggar: characterization of lithospheric mantle "Touareg" at the base and sides of a major lithospheric shear (4 ° 50). 7 colloque international 3MA, Kénitra, Maroc, pp 186.

Yahiaoui, R., Azzouni A. Dautria, J-M., Alard, O., Bodinier, J-L., **Kourim, F.**, (2011) : The In-Ezzane Plio-Quaternary district volcanic (Est Hoggar, Algeria): volcanology, petrology and geochemistry. 7 colloque international 3MA, Kénitra, Maroc, pp 166.

Bendaoud, A., Djemaï, S., **Kourim, F.**, Bruguier, O., Ouzegane, K., Kienast, J-R. et Caby, R. (2011) : Mapping, P-T evolution and geochronology of Precambrian formations of Tirek (Hoggar occidental, Algérie). 7 colloques internationaux 3MA, Kénitra, Maroc, pp 173.

Bendaoud, A., Djemai, S., Godard, G., Kourim, F., Deroin, J-P., Ouzegane, K., Kienast, J-R. (2010) : The tectono-metamorphic region Tirek-Amesmess: Contribution of multi-scale imaging. RST, Bordeaux, France, pp. 22-23.

Bouregghda, N., Bendaoud, A., Ait Djafer, S., Ouzegane, K., **Kourim, F.** et Kienast, JR. (2009) Calcium-silicates granulites Paleo-Proterozoic fields Laouni and Egéré-Aleksod (Hoggar, Algérie) VII JST, U.S.T.H.B, Alger, p. 49.

Kourim, F., Bendaoud, A., Ouzegane, K., Benyahia, O., Kienast, J.R. (2008): Paragénitiques, mineralogical and P-T evolution relationships of garnet-quartz-plagioclase and orthopyroxene pyrigarnites, and silicato calcsiques metabasinites from Tamanrasset, Tin Amzi and Tidjénouine, Central Hoggar. VI JST, U.S.T.H.B, Alger, p 19.

SEMINARS

Kourim, F. (26/10/2021): Melt/fluid-peridotite interaction beneath oceanic spreading centers: Insights from the geochemical characterization of the Oman Crust-Mantle transition zone, Oman_DP Holes CM1A and CM2B. Department of Natural Resources and Environmental Studies National Dong Hwa University.

Kourim, F. (05/12/2019): Feedback between deformation, static recrystallization, seismic anisotropy, and melt-percolation of the lithospheric mantle. I.E.S. Academia Sinica, Taiwan.

Kourim, F. (29/10/2019): ICDP_Expedition 807: Journey from the Earth's crust to the Earth's mantle. Department of Natural Resources and Environmental Studies National Dong Hwa University.

Kourim, F. (25/10/2019): First geochemical and mineralogical results of Oman Crust-Mantle transition: holes CM1A and CM2B characterization aboard DV-Chikyu_ Oman Drilling Project, Phase 2 Leg3 National Taiwan University, Taipei, Taiwan.

Kourim, F. (21/03/2019): Feedback of mantle metasomatism on olivine micro-fabric and seismic properties of the deep lithosphere. I.E.S. Academia Sinica, Taiwan.

Kourim, F. (27/11/2018): Feedback of mantle metasomatism on olivine micro-fabric and seismic properties of the deep lithosphere. National Taiwan University, Taipei, Taiwan.

Kourim, F. (07/09/2018): Voyage au centre de la terre: ICDP_807 Oman Ophiolite vs Hoggar Xenoliths. The French Alliance, Nagoya, Japan.

Kourim, F. (11/07/2017): Nature and evolution of the lithospheric mantle: a record from mantle xenoliths. Academia Sinica, Taipei, Taiwan.

Kourim, F. (11/12/2012): Lithospheric architecture and mantle dynamics beneath the Hoggar: message from Tahalgha mantle xenoliths. University of Sciences and Technologies Houari Boumediene (USTHB), Algier, Algeria.

HONORES

2022-02-12: Receives 2021 Postdoctoral Research Paper Award from the Ministry of Science and Technology, R.O.C.

Paper: **Kourim, F.** Wang K-L. Lafay R. Beinlich A. Chieh C-J. Michibayashi K. Kovach V. Yarmolyuk V. Iizuka Y. (2021) Metasomatism of the off-cratonic lithospheric mantle beneath Hangay Dome, Mongolia: Constraints from trace-element modelling of lherzolite xenoliths. *Lithos*, DOI: 10.1016/j.lithos.2021.106407

OTHER SCIENTIFIC ACTIVITIES

Communications:

Member of the organizing committee of the Geosciences-Montpellier Ph. D student's conference 2011.

National Fair of Science 2011 and 2012: 2-3 half-day of presence/animation at Geosciences Montpellier-Botanic Garden of Montpellier.

Memberships:

Oman Drilling Project, Geochemical Society of Japan, American Geophysical Union, YES Network, European Association of Geochemistry, Société Française de Mineralogie et de Cristallographie.

Last update : 16/03/2022