

Xuan Liu (Ph.D.)

[Google Scholar](#); [ResearchGate](#)

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Employment

Postdoctoral Researcher (2018/02-)

Université de Lorraine, CNRS

Collaborators:

[Dr. Jacques Pironon](#) & [Dr. Julien Mercadier](#) & Dr. Philippe de Donato

Postdoctoral Researcher (2016/08-2017/09)

Western Washington University

Collaborator: [Dr. Brian Rusk](#)

Assistant Professor (2013/07-2016/07)

Institute of Geology and Geophysics, Chinese Academy of Sciences

Collaborator: [Dr. Hongrui Fan](#)

Education

Ph.D. in Mineralogy, Petrology and Ore Geology (2009/09-2013/07)

University of Chinese Academy of Sciences ([Top 3 in China](#), [Top 100 worldwide](#))

Thesis: Magmatic, metallogenic and exhumational processes of the mid-Jurassic porphyry ore systems in the Dexing District, Jiangxi Province, SE China

MSc. study in geology (2007/09-2009/06)

University of Chinese Academy of Sciences

Bachelor of Engineering in Gemology and Material Technology (2003/09-2007/07)

China University of Geosciences (Beijing) ([Top 2 in subject of geology worldwide](#))

Thesis: Origin of the colors of the agates, Inner Mongolia Desert, China

Research funds

Resource traceability: Examples of metals supported by DEEPSurf Program of Université de Lorraine (co-principal investigator, 2020/03-2022/03)

Project title: Geochemical identities (gID) of ore and metal for enhanced traceability: a test study of copper

PHC XU GUANGQI Fellowship (principal investigator, 2020/03)

Project title: Metal fertility in postsubduction terrains: from magma source to fluid evolution

Extra & Co. Fund (participant; 2018/02-)

Project title: Synthesis and stability of anhydrite at low to medium high P, T range

Young Scientist Project by National Science Foundation of China (principal investigator; 2015/01-2017/12)

Project title: Origins and metamorphic modification of the sediment-hosted Cu mineralization at the Hujiayu and Bizigou copper deposits, Zhongtiaoshan, China

Open funds by China Ministry of Land and Resources (principal investigator, 2014/01-2015/12)

Project title: Thermal history of the Sanshandao gold deposit, Jiaodong peninsula: insights from U-Th-He thermochronology

Student Research Grant by Society of the Economic Geologists (principal investigator, 2012/06-2013/06)

Project title: Formation and preservation of the mid-Jurassic porphyry copper systems in Dexing, SE China: insights from geo- and thermochronology

Reviewer for scientific journals

Minerals; Journal of Earth Sciences; Acta Petrologica Sinica; Ore Geology Reviews; Mineralium Deposita; Precambrian Research; Journal of Asian Earth Science; Communications Earth & Environment

Supervised Projects

Zhengjie Qiu (PhD, finished in 2016/06, co-advisor)

Thesis: Cu mineralization during Paleoproterozoic rift-collision-uplift in the Zhongtiao Mt., Shanxi Province

Pierre Cosme (MSc, 2019/05, principal advisor)

Thesis: Origin of cathodoluminescence in scapolite

Fatoumata Konta (MSc, 2020/06, principal advisor)

Thesis: Empirical calibration of pressure dependence of Raman shifts in anhydrite by silica microcapillary-Raman spectroscopy system

Invited conferences

Session talk at The GSA 2019 Annual Meeting in Phoenix, USA (2019/09/22-27)

Poster at The Annual Meeting of the Society of Economic Geologists in Keystone, USA (2014/09/27-30)

Poster at The Annual Meeting of Society of Economic Geologists in Whistler, Canada (2013/09/24-27)

Invited talk at The RioTinto symposium on porphyry copper deposits in Beijing, China (2013/04/30)

Session talk at 17th National Fluid Inclusion/Geological Fluid Meeting in Hangzhou, China (2012/10/18-21)

Session talk at 5th Meeting on Metallogeny Theory and Prospect Method in Guilin, China (2011/12/09-12)

Session talk at 2011 National Meeting on Petrology and Geodynamics in Nanjing, China (2011/09/14-19)

Poster at The 10th National Symposium on Economic Geology in Beijing, China (2010/09/20-22)

Session talk at 16th National Fluid Inclusion/Geological Fluid Meeting in Nanchang, China (2010/06/14-17)

Session talk at 2009's National Symposium on Petrology and Geodynamics in Xi'an, China (2009/09/20-26)

Honors & Awards

PHC XU GUANGQI Fellowship (2020/03)

Visiting Scientist Fellowship (China Scholarship Council, 2016/08)

Student Travel Award (Society of the Economic Geologists, 2013/09)

Hugh E. McKinstry Award (Society of the Economic Geologists, 2012/06)

Excellent Student Speaker at the 2011 National Symposium on Petrology and Geodynamics (2011/09)

Excellent Student Speaker at The 6th National Fluid Inclusion/Geological Fluid Symposium (2010/10)

Excellent Student Award of Chinese Academy of Sciences (2009/07)

Excellent Student Award of Chinese Academy of Sciences (2008/07)

Analytical capacities

LA-ICP-MS (trace elements, U-Pb dating, Hf-Sr isotopes); electron probe (CL, BSE, EPMA); fluid inclusion microthermometry; SIMS (O-S isotopes, U-Pb dating); hydrothermal autoclaves; Laser Raman microcapillary reaction cell; bulk elemental and isotopic analysis (major, trace, Rb-Sr, Sm-Nd, Pb isotopes)

Languages

Chinese (mother language); **English** (fluent); **French** (beginner)