

Peng JIANG

Assistant Professor • MAS Early Career Scholar • Department of Earth Sciences • University of Hawai'i at Mānoa

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Education

- **Ph.D.** (Geology), University of Florida (UF), **2022**.
Co-Advisors: David A. Foster and Michael Perfit
- **M.S.** (Mineralogy, Petrology & Mineral Deposit Geology), Institute of Geology and Geophysics, Chinese Academy of Sciences (IGGCAS), **2017**.
Co-Advisors: Hongrui Fan and Kuifeng Yang
- **B.S.** (Geology), China University of Geosciences (CUG), **2013**.
Co-Advisors: Changqian Ma and Jianwei Li

Professional Positions

- *Assistant Professor*, Department of Earth Sciences, SOEST, UH Manoa 2026.04 – Present
- *Lab Manager*, SOEST Electron Microprobe Lab (JXA-8500F, JXA-iHP200F) 2022.10 – Present
- *Assistant Specialist*, Department of Earth Sciences, SOEST, UH Manoa 2022.10 – 2026.04
- *Research / Teaching Assistant*, Department of Geological Sciences, UF 2017 - 2022
- *Graduate Research Assistant*, Chinese Academy of Sciences (IGGCAS) 2014 - 2017

Research Interests and Projects

- Research Interests:
 - ✚ Oceanic magmatism and mantle source characteristics, Crust evolution and Craton destruction, Giant gold mineralization and critical mineral deposition, Microanalysis, Micro-geochemistry, Petrochronology, Thermodynamic-geochemical modeling, etc.
- Research Projects: (See [web](#) for details)
 - ✚ Advancing Electron Microprobe methodologies to study multidisciplinary samples across Earth and planetary sciences, materials science, oceanography, biological sciences, soil science, anthropology, etc., fostering collaborative research within UH Mānoa and beyond 2022 - Present
 - ✚ Olivine (Plag, Pyx, Spinel) textural and geochemical study to understand mantle heterogeneity and crust-mantle recycling processes in East Pacific Rise, Galapagos, and Hawaiian Islands 2020 - Present
 - ✚ Monazite petrochronology study in Damara Orogen to gain insights into monazite growth mechanism and tectonic evolution within an orogenic cycle 2019 - Present
 - ✚ Method Developments on high-precision and high accuracy EPMA and LA-(MC)ICP-MS elemental and isotopic analyses on major/accessory minerals (monazite, zircon, olivine, etc.) 2017 - Present
 - ✚ Hydrothermal monazite and metal sulfides geochemical study to constrain the timing of gold mineralization and mechanisms for Au deposition 2014 - 2017
 - ✚ Titanite petrochronology study as a probe into the tectono-magmatic evolution in Jiaodong during destruction of North China Craton 2013 - 2016

Instructional Portfolio

- ❖ Courses generally taught at the University of Hawai'i at Mānoa (*since Fall 2023*)
 - **ETTH 621 Electron Microprobe Analysis (3 credits)** - offered in Fall Semester
 This is a graduate level course that is required for all users of the electron microprobe. It has a theoretical part and a lab part. The theoretical part deals with the theory of electron-solid interaction, components of the probe, quantitative and qualitative analysis as well as the various pitfalls. The lab part teaches how to become an autonomous user of the electron microprobe facility, including sample preparation, sample change, BSE/SE imaging and X-ray mapping and setting up a quantitative analysis from scratch. There is a theoretical test and a 1~2-day Lab Final Project at the end of the semester, where the student demonstrates the ability in designing the EPMA experiments and the capability of obtaining high-quality data independently with safe operations, and write a peer-review, journal-type Lab Final Project Paper. Students will eventually design and complete more future probe work that can benefit their MS/PhD research projects, and lead to paper publications.
- ❖ Courses taught at the University of Florida
 - ** Awarded the “Ernst Award” by the department as an *outstanding teaching assistant* 2021
 - ESC1000 – *Introduction to Earth Science*, Graduate Teaching Assistant, UF 2022 (Spring)
 - GLY3200C – *Principles of Mineralogy*, Graduate Teaching Assistant, UF 2021 (Fall)
 - GLY4310C – *Igneous and Metamorphic Petrology*, Graduate Teaching Assistant, UF 2021 (Spring)
 - GLY3200C – *Principles of Mineralogy*, Graduate Teaching Assistant, UF 2020 (Fall)
 - GLY4310C – *Igneous and Metamorphic Petrology*, Graduate Teaching Assistant, UF 2020 (Spring)
 - GLY3200C – *Principles of Mineralogy*, Graduate Teaching Assistant, UF 2019 (Fall)

Grants and Funds

- ❖ Research & Travel grants/funds so far reach **\$1,671,021** (as PI / Co-PI / Co-I)
 - (Co-I) NASA Solar System Workings (SSW): Distinguishing Surface and Interior Water in Planetary Materials Using Polarized Spectroscopy; requested amount: \$822,973, unfunded proposal (2025)
 - (*Senior Personnel*) NSF EAR: *REU Site: Earth Science on Volcanic Islands*; NSF-EAR 2447896 (**awarded: \$675,795**) 2025 - 2028
 - (*Co-PI*) NSF Major Research Instrumentation (MRI): *Track 1 Acquisition of a State-of-the-Art Electron Microprobe for Research and Training*; NSF-MRI 2404943 (**awarded: \$699,999**) 2024 - 2027
 - (*Co-I*) NASA Emerging Worlds (EW): *Acquisition of a State-of-the-Art Electron Microprobe*; NASA grant number: 80NSSC25K7019 (**awarded: \$810,865**) 2024 - 2027
 - UHM Faculty Research Travel Fund (\$1,750) 2024
 - (PI) University of Hawai'i at Mānoa start-up fund, \$150,000 2022 - 2026
 - Land Use and Environmental Change Institute (LUECI) funds (4 times), \$1,300 2018 - 2022
 - UF Graduate Student Council (GSC) Travel Grant (3 times), \$1050 2018, 2021, 2022
 - UF Geological Department Travel Grant (4 times), \$1100 2018 - 2022
 - UF College of Liberal Arts and Sciences (CLAS) Travel Grant (twice), \$600 2019, 2022
 - Geological Society of America (GSA) Graduate Student Research Grants (\$1,240) 2020
 - UF Geological Department Research Grants (\$1,000) 2020

- UF Geological Department Chair's funding for Conference Travel Support, \$640 2019
- MAS Quantitative Microanalysis 2019 Topical Conference Travel Grant, \$748 2019
- UCLA SIMS Workshop Travel Grant, \$535 2019

Honors and Awards

- ❖ Fellowship, scholarships, and awards so far reach around **\$26,083**
 - UF Dissertation Scholarship (\$8,266) 2022
 - UF pre-doctoral *MOU Fellowship* (\$10,124) 2021-22 & 2019
 - *Honorary Mention* at the NanoFlorida 2020 Conference 2020
 - *MAS (Microanalysis Society) Early Career Scholar* 2019
 - *Research Publication Awards* (¥23,000; c. \$3,289) from IGGCAS 2019 & 2017
 - *National Graduate Scholarship* (¥20,000; c. \$2,860) for Master student (China) 2016
 - *Merit Student* at IGGCAS 2014
 - *Tsang Hin-chi Scholarship* (¥3,600*3; c. \$1,544) for successive three years 2010 - 2012
 - *University-level Outstanding Student* (three times) at CUG 2010 - 2012
 - *Excellent Intern for Zhoukoudian Geological Internship* (CUG) 2011

Manuscripts under Review / in Revision

[Google Scholar](#)

[Research Gate](#)

[ORCID](#)

- Chen, Q., Zhao, B., Yu, T., Ashley, A.W., [Jiang, P.](#), Wang, Y.B. (202x) Pressure and water effects on andesitic melt mobility: In-situ melt viscosity measurements up to 7.5 GPa. *Journal of Geophysical Research: Solid Earth* (under review).
- Peckenpaugh**, J.G., Berrada, M., [Jiang, P.](#), Chen, B. (202x) Elevated silicon content facilitates carbon precipitation within Mercury's core. *Geochimica et Cosmochimica Acta* (in revision).
- Chien, A*, [Jiang, P.](#)+, Sinton, J., Chang, Z.S., Huang, S.Q., Warnes*, E. (202x) Low-Ca olivine antecrysts reveal recycled oceanic crust and possible pyroxenite destruction beneath the southern East Pacific Rise. *Geochimica et Cosmochimica Acta* (in revision).

* Students under my direct supervision. ** Students I mentor. + Indicates corresponding author.

Peer-Reviewed Papers / Publication List

- 1) Quintus, S., Peterson, J., McCall, M., Mills, P., Lundblad, S., Ayala, B., Roper-Todd, S., [Jiang, P.](#), Mershon, R., Pietruszka, A. (2026) Lithic Economics in Upland Ka'ū. *Archaeological and Anthropological Sciences*. 18 (4), 76. [Link](#)
- 2) [Jiang, P.](#)+, Perfit, M.R., Anderson, M.K., Kamenov, G., and Trucco, A. (2026) Trace elements proxies in seamount olivine reveal the 'missing pyroxenite' and refertilized peridotite mantle beneath the East Pacific Rise. *Earth and Planetary Science Letters*, 673, 119739. [Link](#)
- 3) Mershon, R.B., Pietruszka, A.J., Garcia, M.O., Jicha, B.R., Steiner, A.R., [Jiang, P.](#), Rhodes, J.M., Vollinger, M.J., Moore, G.F. (2025) The Detroit Volcanic Province and the Early Evolution of the Hawaiian Mantle Plume. *Earth and Planetary Sciences Letters*, 666, 119484. [Link](#)
- 4) Pietruszka, A.J., Cunningham, M.J., Bindeman, I.N., Garcia, M.O., Boro, J.R., Burns, D.H., [Jiang, P.](#)

- (2025) Melt Flux from the Mantle Regulates the Crustal Processing and $\delta^{18}\text{O}$ Variations of Kama'ehuakanaloa Magmas. *Journal of Petrology*, 66(1), egaf001. [Link](#)
- 5) Garcia, M.O., Norman, M.D., Jicha, B.R., Lynn, K.J., [Jiang, P.](#) (2024) Reexamining the Honolulu Volcanics: Hawai'i's classic case of rejuvenation volcanism. *Journal of Petrology*, 65(9), egae093. [Link](#)
 - 6) Zhang, Y.W., Fan, H.R., Li, L., Li, Q.L., Peng, H.W., Cai, Y.C., [Jiang, P.](#) and Feng, K. (2024). Archean atmospheric sulfur stocked in the cretaceous gold deposits. *Geochemistry*, 126158. [Link](#)
 - 7) Quintus, S., Dye, T., Mills, P., Lundblad, S., Balai, C., Rieth, T.M., Filimoehala, D., Morrison, A.E., Tulchin, J., Duarte, T., McCoy M.D., [Jiang, P.](#) (2023) The Patterning of Volcanic Glass Transfer across Eastern O'ahu Island, Hawai'i. *Journal of Archaeological Sciences: Reports*, 52, 104282. [Link](#)
 - 8) Peng, H.W., Fan, H.R., Lai, J.Q., Yang, K.F., [Jiang, P.](#), Yang, Y.H., Wu, S.T. (2023) Post-deposition hydrothermal alteration and U-Pb isotopic resetting of wolframite in the Tiantangshan deposit, Nanling Range (South China): Implications for complex isotopic ages of ore deposits. *Ore Geology Reviews*, 156, 105406. [Link](#)
 - 9) [Jiang, P.](#), Perfit, M., Foster, D.A., and Trucco, A. (2022) Accurate analyses of key petrogenetic minor and trace elements in olivine by electron microprobe. *Chemical Geology*, 614, 121199. [Link](#)
 - 10) Goscombe, B., Foster, D.A., Kelsey D., Wade, B., Gray, D., Mulrooney, L., [Jiang, P.](#), Haseler M., Marsellos A. (2022) Episodic intra-continental reactivation during collapse of a collisional orogen: the Damara Belt, Namibia. *Gondwana Research* (invited review), 109, 285-375. [Link](#)
 - 11) Peng, H.W., Fan, H.R., [Jiang, P.](#), Hu, H.L. and Lan, T.G. (2021) Two-stage rollbacks of the paleo-Pacific plate beneath the Cathaysia block during Cretaceous: Insights from A-type granites and volcanic rocks. *Gondwana Research*, 97, 158-175. [Link](#)
 - 12) Peng, H.W., Fan, H.R., Santosh, M., Hu, F.F. and [Jiang, P.](#) (2020) Infrared microthermometry of fluid inclusions in transparent to opaque minerals: challenges and new insights. *Mineralium Deposita*, 55, 1425-1440. [Link](#)
 - 13) Yang, K.F., [Jiang, P.](#)⁺⁺, Fan, H.R., Zuo, Y.B. and Yang, Y.H., (2018). Tectonic transition from a compressional to extensional metallogenic environment at ~ 120 Ma revealed in the Hushan gold deposit, Jiaodong, North China Craton. *Journal of Asian Earth Sciences*, 160, 408-425. [Link](#)
 - 14) Feng, K., Fan, H.R., Hu, F.F., Yang, K.F., Liu, X., Shangguan, Y.N., Cai, Y.C. and [Jiang, P.](#) (2018) Involvement of anomalously As-Au-rich fluids in the mineralization of the Heilan'gou gold deposit, Jiaodong, China, Evidence from trace element mapping and in-situ sulfur isotope composition. *Journal of Asian Earth Sciences*, 160, 304-321. [Link](#)
 - 15) Ma, W.D., Fan, H.R., Liu, X., Pirajno, F., Yang, K.F., Xu, W.G., Yang, Y.H., and [Jiang, P.](#) (2017). Geochronological framework of the Xiadian gold deposit in the Jiaodong province, China: Implications for the timing of gold mineralization. *Ore Geology Reviews*, 86, 196-211. [Link](#)
 - 16) Yang, K.F., Zhu, J.T., Cheng, S.H., Liu, X., [Jiang, P.](#), Fan, H.R. (2017) Structural controls of the Sanshandao Gold Deposit in the Northwestern Jiaodong District, China. *Geotectonica et Metallogenia*, 41, 272-282. [Link](#)
 - 17) [Jiang, P.](#), Yang, K.F., Fan, H.R., Liu, X., Cai, Y.C., and Yang, Y.H. (2016). Titanite-scale insights into multi-stage magma mixing in Early Cretaceous of NW Jiaodong terrane, North China Craton.

Lithos, 258, 197-214. [Link](#)

+ Indicates corresponding author. ++ Indicates co-first author.

Selected Conference Abstracts (*indicates students under my direct supervision; ** students I mentor)

- Mershon, R.B.**, Pietruszka, A.J., Steiner, A., Vollinger, M.J., Rhodes, J.M., Jicha, B., Garcia, M.O., [Jiang, P.](#) (2026) Variable magmatic flux of Northwest Hawaiian Ridge shield volcanoes controlled by temporal changes in the upwelling of a depleted plume component. *Goldschmidt 2026*.
- Conner, K.**, Stauring, G., Uchikawa, J., DeCarlo, T.M., [Jiang, P.](#), Dera, P., Hawco, N.J., Sharma, S., Sabine, C.L. and Zeebe, R.E. (2026). Development and Preliminary Application of a Raman Spectral Proxy for Tracking Calcifying Fluid Saturation State in Calcitic Marine Organisms. In 2026 Ocean Sciences Meeting. *AGU Abstract*.
- Mershon, R.B.**, Pietruszka, A.J., Kuznetsov, M., Lynn, K.J., Downs, D.T., [Jiang, P.](#) (2025) Evaluating Mantle and Crustal Magmatic Controls on the 1924 Explosive Eruptions from Kilauea Using Individual Clast Analyses. *2025 AGU Chapman Conference on Caldera-Forming Eruptions at Basaltic Volcanoes*.
- [Jiang, P.](#), Chien, A.*, Anderson, M., Perfit, M., Sinton, J. (2024) Olivine antecrysts in off-axis seamounts: Tracers of recycled oceanic crust and mantle metasomatism. *AGU Abstracts* (Washington D.C.).
- Warnes, E.* , [Jiang, P.](#), Chien, A.*, Sinton, J. (2024) Investigation of plagioclase ultraphyric basalt (PUB) from the Southern East Pacific Rise: Insights into magmatic history and PUB formation through plagioclase texture and chemical analysis. *AGU Fall Meeting Abstracts* (Washington D.C.).
- Tsai, A.**, Sharma, S., Hammer, J., [Jiang, P.](#) (2024) Experimental validation of Raman calibration models for rapid Mg# determination using olivine crystals from Hawaiian volcanoes. *AGU Fall Meeting Abstracts* (Washington D.C.).
- Conner, K.**, Stauring, G., Uchikawa, J., [Jiang, P.](#), DeCarlo, T.M., Hawco, N.J., Shirai, K., Sharma, S.K., Zeebe, R.E. (2024) Quantifying calcite element contents through Raman Spectroscopy: Abiogenic vs. biogenic comparisons. *AGU Fall Meeting Abstracts* (Washington D.C.).
- Mershon, R.B.**, Pietruszka, A.J., Garcia, M.O., Jicha, B.R., Steiner, A.R., [Jiang, P.](#), Vollinger, M.J., Rhodes, M. (2024) New insights into the depleted component of the Hawaiian mantle plume from Detroit Seamount lavas. *AGU Fall Meeting Abstracts* (Washington D.C.).
- Chien, A.* , [Jiang, P.](#), Sinton, J. (2024) Investigation of melt evolution and pyroxenite signatures beneath the Southern East Pacific Rise (SEPR) (13°S to 23°S): Insights from olivine minor and trace elements. *Goldschmidt 2024*.
- Chao, K.H.** , Chen, B., Lai, X., Zhu, F., Wang, S., Berrada, M., [Jiang, P.](#), Chariton, S. and Prakapenka, V. (2023) Reactions of iron carbide with water in the mantle transition zone: New insights into the deep volatile cycling. *AGU Fall Meeting Abstracts* (Vol. 2023, No. 68, pp. MR21C-0068).
- [Jiang, P.](#), Perfit, M., Anderson, M., Kamenov, G., and Trucco, A. (2022) "Probing" mantle source compositions and melt evolution beneath the northern East Pacific Rise using olivine geochemistry. *Goldschmidt 2022*, 5fT2 (Oral).
- [Jiang, P.](#), Perfit, M., Anderson, M., Kamenov, G., and Trucco, A. (2021) Unraveling MORB petrogenesis along the East Pacific Rise (EPR) 8°20' N Seamounts and Siqueiros Transform: Insights from olivine

minor and trace element geochemistry. **AGU Abstracts**, V54B-03 (Oral, **Highlighted**). [Link](#)

- **Jiang, P.**, Foster, D.A., Goscombe, B., Kamenov, G., and Trucco, A. (2021) Episodic and continuous monazite growth within an orogenic cycle: A monazite petrochronology case study in the central Damara Orogen. **AGU Abstract**, T15E-0213. [Link](#)
- Kincaid, D.***, Perfit, M., Fornari, D. and **Jiang, P.** (2021) Discovery and Geochemistry of Off-Axis Volcanic Cones at East Pacific Rise 950N. **AGU Abstract** (Vol. 2021, pp. V35A-0110).
- **Jiang, P.**, Foster, D.A., Perfit, M., and Trucco, A. (2020) Pushing the boundaries for electron microprobe: sub-micron scale high-precision and high accuracy minor and trace element analysis. **NanoFlorida 2020 Conference abstract**. (Received “Honorary Mention” for the conference) [Link](#)
- **Jiang, P.**, Foster, D.A., Goscombe, B. and Trucco, A. (2019) Monazite Growth in Response to Metamorphic and Deformation Events at Different Structural Levels. **AGU Abstracts**, V52B-03 (Oral).
- **Jiang, P.**, Foster, D.A., Perfit, M., and Trucco, A. (2019) Capability of Cameca SXFive Field Emission EPMA in Acquiring High-precision and High-accuracy Minor and Trace Elemental Data at High Spatial Resolution. **MAS Quantitative Microanalysis 2019 Topical Conference Abstracts**, 118-119. [Link](#)
- **Jiang, P.**, Foster, D.A., Perfit, M., and Trucco, A. (2018) Application of High Spatial Resolution Major and Trace Element Analyses of Accessory Minerals in Metamorphic Tectonites by Electron Microprobe. **GSA Abstracts with Programs**, 50 (6).
- **Jiang, P.**, Yang, K.F., Fan, H.R., and Liu, X. (2016) Magma mixing, mingling and its accompanying isotopic and elemental partitioning: Records from titanites in Guojialing-type granodiorites and dioritic enclaves, Jiaodong, North China. **AGU Abstracts with Programs**, V23B-2971.
- **Jiang, P.**, Yang, K.F., Fan, H.R., Liu, X., et al. (2016) Superimposed gold mineralization triggered by multi-stage fluids in Heilangou deposit, Jiaodong: Insights from Au-bearing sulfide geochemistry and fluid inclusions in quartz. **18th National Conference for Inclusions and Geofluids Abstracts** (Oral).
- **Jiang, P.**, Yang, K.F., Fan, H.R., Liu, X., et al. (2016) A record of ~120 Ma compressional-extensional metallogenic environmental transition: Implications for a two-stage superimposed mineralization of Hushan gold deposits, Jiaodong. **13th National Conference for Mineral Deposits Abstracts** (Oral).

Invited Talks/Seminars

- *Invited seminar series*, China University of Geosciences (Wuhan) Dec 2024
- *Invited seminar series*, IGGCAS Dec 2024
- *Department of Earth Sciences Seminar Series: Spring 2023* (UH Manoa) Feb 2023
- *Academic job searching seminar* for graduate students at IGGCAS Nov 2022
- *PhD defense talk* for graduate students at the University of Caldas Oct 2022
- *Geological Sciences Brownbag Seminar Series – EPMA method development*, UF Sep 2020
- *Geological Sciences Brownbag Seminar Series – Titanite petrochronology*, UF Sep 2017
- *Annual Research Symposium of Key Laboratory of Mineral Resources (2016)*, IGGCAS Jan 2017

Professional Development & Training

- 2025 Spring *Faculty Success Program*, organized by NCFDD (11 weeks) 2025

- NSF-OCE FUTURE 2024 Workshop on US Marine Seafloor and Sub-seafloor Sampling Capabilities, Woods Hole Oceanographic Institution (WHOI) (invited) 2024
- 4th International Workshop on Electron Probe Micro-Analysis (virtual) 2023
- Goldschmidt *AlphaMELTS* 2 Thermodynamic Modeling workshop attendee (Hawaii) 2022
- UF Graduate Professional Development, *Fall 2021 Writing Program*, participant 2021
- “Phase Equilibrium Modeling: Approaches and Pitfalls” workshop attendee (virtual) 2021
- 2nd International Workshop on EPMA-ATHENS attendee (virtual) 2021
- Goldschmidt Virtual Diffusion Workshop 2020 attendee 2020
- UF “Science Communication” workshop attendee, Gainesville, Florida, USA 2020
- UCLA SIMS Workshop attendee, Los Angeles, California, USA 2019
- USTC Isotopic Geochronology Short Course attendee, Hefei, Anhui Province, China 2013

Professional Field Experience

- 2024 REU Big Island (Kilauea) Field Trip (Co-lead with Dr. Julia Hammer) 2024
- Big Island (west Hawai’i) Field Trip (led by Drs. John Sinton & Tom Shea) 2024
- East O’ahu Field Trip (Hanauma Bay area, Lanai Lookout, Kaiwi shore, Makapu’u area) 2022
- Mineralogy Field Trip to North Carolina and Georgia (Mineralogy course; Co-leader) 2021
- Death Valley National Park field study (~2weeks) 2018
- Jiaodong scientific field investigation and sampling (4 field seasons, ~8 weeks in total) 2013-2016
- Graduation internship in Tieshan and Jinshandian Fe-skarn deposits (Hubei) (~7weeks) 2012
- Hong’an ultra-high pressure (UHP) metamorphic rocks’ field study (2 days) 2011
- Zhoukoudian comprehensive field study and independent geologic mapping (~6 weeks) 2011
- Granitoids observations and sampling in South China (Zhejiang-Fujian) (2 weeks) 2011
- Beidaihe cognitive geologic field study (~2 weeks) 2010

Students Mentored/Currently Mentoring

- *Annie Chien*, my MS student at UH Manoa (Thesis title: ***Olivine Trace Elements as Evidence for Recycled Oceanic Crust and Possible Pyroxenite Destruction beneath the Southern East Pacific Rise (SEPR)***) June 2023 – Dec 2024
- *Ethan Warnes* (*Pasadena City College*), 2024 Research Experience for Undergraduates (REU) for the Earth Science on Volcanic Islands (ESVI) Program at UHM 2024 summer
- *Denali Kincaid*, last-year undergraduate at UF. (Guided her with EPMA mount preparation, EPMA MORB glass analysis, data reduction, and AGU poster revision, etc.) 2021
- *Jiaying Wu*, previous graduate student at NUS. (Mentored her for academic career preparation, overseas university DIY application, paper writing, etc.) 2018 - 2021
- *Hong-Wei Peng*, previous graduate student at IGGCAS. (Guided him with data reduction, data interpretation, paper manuscript writing and revision, etc.) 2018 - 2021
- *Kai Feng*, previous graduate student at IGGCAS. (Guided him with LA-ICP-MS, EPMA and SIMS experiments, helped with data reduction and interpretation, etc.) 2016 - 2017

Professional Service

- Editorial Board for Applied Earth Science 2025 - present
- Journal reviewer for *Journal of Petrology*, *GSA Bulletin*, *Ore Geology Reviews*, *Journal of African Earth Sciences*, *Applied Earth Sciences*, etc. 2025 - present
- Convener & Chair of 2022 Goldschmidt session “*The Formation, Dynamics, and Influence of Magmatic Systems in the Oceanic Crust*”, Hawaii 2022
- Chair of 2021 AGU session “*The Dynamics of Magmatic Plumbing Systems*”, NOLA 2021
- Journal reviewer for *American Mineralogists*, *Journal of African Earth Sciences*, *Ore Geology Reviews*, *Geological Magazine*, etc. 2016 - 2017

University/Department Service

- ❖ Department of Earth Sciences / University of Hawai‘i at Mānoa
 - Associate/Full MacDonald Professor in Volcanology Faculty Search Committee Fall 2025 - Present
 - Department Community Committee Chair Fall 2025 – Present
 - UH Material Sciences Instrumentation Committee Fall 2024 – F. 2025
 - Assistant Professor in Marine Geophysics Faculty Search Committee Fall 2024 – S. 2025
 - MS/PhD Exam and Thesis/Dissertation Committees:
 - Mahinaokalani Robbins (PhD Dissertation Committee) Spring 2026 - present
 - Rachel Bellah (PhD Qualifying Exam Committee) Spring 2026
 - Juliana Peckenpaugh (PhD Comprehensive Exam Committee) Spring 2024 – F. 2024
 - Alan McFall (MS Plan B Thesis Committee) Spring 2024 – S.2025
 - JEDI & Department Community Committee (TGIF seminar coordinator) Fall 2023 - present
 - Assistant Researcher in Planetary Petrology Faculty Search Committee Spring 2024
 - Isotope Geochemistry Specialist Faculty Search Committee Fall 2023
 - Graduate Student Success Committee Fall 2022 – S. 2023

Public Outreach & Extracurricular Activities and Honors

- *The 2023 SOEST Open House* (UH Manoa), organizer & instructor for the EMP Lab Tour 2023
- Florida Museum (at UF) *Can You Dig It* annual event, Instructor on Volcano “eruption” 2022
- *Speed Mentoring Event* for grads and undergrads, UF, Participant 2021
- Florida Museum (at UF) *Can You Dig It* annual event, Instructor on AR sandbox 2019
- K-12 students’ “*Earth Science Popular Science Education*” at IGGCAS, Invited presenter 2016
- “English Salon Night” at IGGCAS, Principal organizer 2014-2015
- *Second Prize* for “*National University Student Arts Festival*” (in China), Orchestra team 2012
- Chinese traditional orchestra concerts (five times), Orchestra team and Solo (or lead) 2010-2012
- Social practice survey on “*Wuhan Hanzheng Street Removal*”, *Third Prize*, Organizer 2011