Dian Ji

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EDUCATION

Department of Earth and Planetary Sciences, University of Tennessee June 2021 - Present
MS track in Geology Knoxville, TN
Advisor: Dr. Nicholas Dygert
GPA (until now): 4.0 / 4.0

College of Geosciences, China University of Petroleum, Beijing Sep 2016 - Jun 2020
B.E. in Resource Exploration Engineering Beijing
Advisor: Dr. Huichuan Liu
GPA: 3.48 / 4.0
Rank: 4 / 117 (Top 3.4%)

PUBLICATION

D. Ji, H.C. Liu, Y.L. Li, (2019) Large-scale Early Cretaceous lower-crust melting derived adakitic rocks in NE China: implications for convergent bidirectional subduction and slab rollback: *International Geology Review*. doi:10.1080/00206814.2019.1697968

FORTHCOMING

D. Ji, N. Dygert, Trace element evidence for serial processing of the lunar flotation crust and a depleted bulk Moon. *In Preparation*

CONFERENCE ABSTRACTS

D. Ji, N. Dygert, 2022. Serial processing after lunar anorthositic crust formation indicated by rare earth elements in plagioclase. *Lunar and Planetary Science Conference, LIII* #1229.
D. Ji, N. Dygert, 2021. Eu anomalies in lunar plagioclase reflect secondary processing by subsolidus reequilibration and introduction of a KREEP component. *Goldschmidt Conference*, #3219.
N. Dygert, **D. Ji**, A.L. Fagan, C.R. Neal, D.S. Draper, J.F. Rapp, T.J. Lapen, 2021. Petrogenesis of and subsolidus reequilibration within lunar ferroan anorthosites: Two demonstrations of a new fO_2-dependent model for plagioclase-melt europium partitioning. *Lunar and Planetary Science Conference*, LII, #2352.

TRAINING

Research Assistant, University of Tennessee June 2021 – Present
Supervisor: Dr. Nicholas Dygert

CONFERENCE TALKS

- 53rd Lunar and Planetary Science Conference, Houston Mar 2022
- 31st Goldschmidt Conference, Virtual Jul 2021

RESEARCH

Research on the Eu anomalies in lunar plagioclase Sep 2020 – Present

- Compiled published crystallization sequences and cumulate products of lunar magma ocean.
- Numerical modeling the trace element abundances of crystallized plagioclase, and tested the reasons of Eu anomalies by subsolidus reequilibration and KREEP addition.

- Proposed a post-LMO model to explain the petrogenesis of lunar anorthosites and reconcile the trace elements and isotopic evidence, as well as the overlap in ages of Mg-suite, KREEP basalt and ferroan anorthosites.

Research on Petrogenesis of Early Cretaceous Adakites in Northeast China Oct 2018 - Apr 2019
- Aimed at figuring out the controversial tectonic settings in NE China by confirming the petrogenesis of the large-scale Early Cretaceous adakitic rocks
- Compiled the temporal and spatial distribution as well as the major elements, trace elements and Sr-Nd, Lu-Hf isotopic data about the Early Cretaceous adakites
- Proposed a convergent bidirectional subduction model to explain the tectonic settings

Laboratory Work and Visiting in UT Dallas Jul 2019 - Sep 2019
- Worked in the Global Magmatic and Tectonic Research Laboratory with Dr. Robert Stern at UT Dallas on the project aims at determining the petrogenesis of all the Early Cretaceous adakites in China

FIELD EXPERIENCE

McClung Blue Ridge Foothills Field Trip 2022
- Looked at part of the transition from the external foreland fold-thrust belt of the Appalachians into the internal metamorphic core led by Dr. Bob Hatcher

Archean Basic Rock Collection, Miyun 2019
- Collected Archean garnet pyroxenite
- Measured geological occurrence of basic dyke group led by Dr. Huichuan Liu

Field Practice in Oilfield, Dagang Oilfield 2019
- Learned the working methods of oilfield engineers and interpretation of seismic data and logging data for two weeks

Comprehensive Geological Field Practice, Liujiang Basin 2018
- Geological field practice includes survey of stratigraphic profiles and geological mapping, and observation of structural geological phenomena for a month Dr. Liang Luo
- Analyzed the structure phenomena logically and drew geologic maps adeptly with CorelDraw

General Field Practice, Western Hills of Beijing 2017
- Geological field practice for learning to recognize magmatic rocks, sedimentary rocks, metamorphic rocks for two weeks led by Dr. Qin Zhang
- Described how rock and fossil evidence are used to infer Earth's history

HONORS & AWARDS

- Li Siguang Outstanding Student Award (The highest undergraduate geoscience award in China) 2020
- Excellent undergraduate thesis in Beijing 2020
- The president of College of Geosciences, China University of Petroleum Nomination Award 2020
- Oriental Geophysics Company Scholarship 2018
- First-class Scholarship of China University of Petroleum 2019
- Second-class Scholarship of China University of Petroleum 2017
- Second Prize in Tectonic Knowledge Competition of China University of Petroleum 2019
- First Prize of the 2018 "FLTRP Cup" English Reading Contest 2018
- Third Prize of Comprehensive Geological Skills Competition of China University of Petroleum 2018
- Second Prize in Tectonic Knowledge Competition of China University of Petroleum 2018
- Third Prize in General Geology Knowledge Competition of China University of Petroleum 2018

SKILLS

- MATLAB, R, C/C++, MELTS, Adobe Illustrator, Photoshop, CorelDRAW, Grapher, Surfer, Igpet
- Scanning Electron Microscope, Electron Microprobe, ICP-MS