

# Dian Ji

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## EDUCATION

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**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

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**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

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

## CONFERENCE ABSTRACTS

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**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.

## RESEARCH EXPERIENCE

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**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.

**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 datas about the Early Cretaceous adakites under the guidance of Dr. Huichuan Liu
- Proposed a convergent bidirectional subduction model to explain the tectonic settings

**Laboratory Work and Visiting in the United States**

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 for two months
- Visited Dr. Paterno Castillo and Dr. Emily Chin at UC San Diego, discussing about the residual composition of adakites and the origin of mafic microgranular enclave in NE China
- Visited Dr. Robert Holder, Dr. Daniel Viete and Dr. Dana Brenner at Johns Hopkins University, discussing about the ultrahigh-temperature metamorphism in the subduction zone and the work in the Stable Isotope Laboratory

### **Research on Level 2 Examination in C Programming Language**

Nov 2017 - Nov 2018

- Aimed at finding the easier way to guide the beginners of C/C++ to grasp the key features and methods and pass the Level 2 Examination in C Programming Language (with 3 collaborators)
- Compiled a C/C++ exercise book with about five hundred exercises as well as the ideas of solving process and successfully helped at least ten students pass the examination

## **WORK AND PRACTICAL EXPERIENCE**

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### **General Field Practice, Western Hills of Beijing**

Jul 2017 - Jul 2017

- Geological field practice for learning to recognize magmatic rocks, sedimentary rocks, metamorphic rocks for two weeks
- Described how rock and fossil evidences are used to infer Earth's history

### **Comprehensive Geological Field Practice, Liujiang Basin**

Jul 2018 - Aug 2018

- Geological field practice includes survey of stratigraphic profiles and geological mapping, and observation of structural geological phenomena for a month
- Analyzed the structure phenomena logically and drew geologic maps adeptly with CorelDraw

### **Archean Basic Rock Collection, Miyun**

May 2019 - May 2019

- Collected Archean garnet pyroxenite
- Measured geological occurrence of basic dyke group

### **Field Practice in Oilfield, Dagang Oilfield**

Jun 2019 - Jul 2019

- Learned the working methods of oilfield engineers and interpretation of seismic data and logging data for two weeks

## **HONORS & AWARDS**

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| • 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**

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