

## Nicole Xike Nie

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Origins Laboratory  
Department of Geophysical Sciences  
The University of Chicago  
5734 South Ellis Avenue, Chicago, IL 60637  
Email: xike@uchicago.edu Cell: (312) 647-3877

### Education

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|--------------|--|
| 2013-present | Graduate student in Geochemistry and Cosmochemistry, University of Chicago                             |
| 2010-2013    | M.S. in Geochemistry, Institute of Geology and Geophysics, Chinese Academy of Sciences (IGGCAS), China |
| 2006-2010    | B.S. in Geology, China University of Geosciences, Beijing (CUGB), China                                |

### Awards

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| 2015-present | NASA Earth and Space Science Fellowship                     |
| 2016         | Goldschmidt Student Travel Grant                            |
| 2010-2013    | Fellowship of Chinese Academy of Sciences, IGGCAS, China    |
| 2010         | Outstanding Graduate Award, CUGB, China                     |
| 2009         | Laboratory Open Fund Outstanding Project Award, CUGB, China |
| 2007-2009    | National Scholarship, the Ministry of Education, China      |
| 2007-2009    | Tsang Hinchu Scholarship for Excellent Students, China      |
| 2007-2009    | Award for Excellence in Geology, CUGB, China                |

### Teaching assistantships

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|-------------------------|--|
| Spring 2014, 2015, 2016 | Introduction to Petrology, University of Chicago |
| Winter 2014             | Natural Hazards, University of Chicago           |
| Fall 2013, 2014         | Global Warming, University of Chicago            |

### Publications and conference abstracts

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- **Nie N. X.**, Dauphas N. and Morris R. V. Iron isotopes tracing formation of Hawaii hematite spherules: a prospective study for Mars. In preparation.
- **Nie N. X.**, Dauphas N. and Greenwood R. C. (2017) Iron and oxygen isotope fractionation during iron UV photo-oxidation: Implications for early Earth and Mars. Earth and

Planetary Science Letters, 458: 179-191.

- Finlayson V., Konter J., Rubin K. H., **Nie N. X.** and Dauphas N. (2017) A subduction zone-spreading ridge transition signature preserved in recent volcanic activity in the NE Lau Basin. GSA Annual Meeting. [Oral]
- **Nie N. X.**, Dauphas N. and Morris R. V. (2017) Clues on acid-sulfate alteration and hematite formation on Earth and Mars from iron isotope analyses of terrestrial analogues from Hawaii. 48<sup>th</sup> Lunar and Planetary Science Conference. [Oral]
- **Nie N. X.**, Dauphas N. and Greenwood R. C. Iron and oxygen isotope fractionation during photo-oxidation (2016). Goldschmidt Conference. [Oral]
- **Nie N. X.**, Dauphas N. and Greenwood R. C. (2016) Iron and oxygen isotope fractionation during photo-oxidation. 47<sup>th</sup> Lunar and Planetary Science Conference. [Poster]
- Williams K. B., Krawczynski M. J., **Nie N. X.**, Dauphas N., Couvy H., Hu M. Y. and Alp E. E. (2016) The role of differentiation processes in mare basalt iron isotope signatures. 47<sup>th</sup> Lunar and Planetary Science Conference. [Oral]
- **Nie N. X.** and Dauphas N. (2015) Iron isotope constraints on the photo-oxidation pathway to BIF formation. 46<sup>th</sup> Lunar and Planetary Science Conference. [Oral]
- Zheng Y., Jia J., **Nie X.** and Kong P. (2014) Cosmogenic nuclide burial age of the Sanying Formation and its implications. Science China Earth Sciences, 57(6): 1141-1149.
- **Nie X.** and Kong P. (2013) Geochemistry of silicates in the Dong UjimQin Qi mesosiderite and the implications for its origin. Advances in Polar Science, 25(4): 403-413. [In Chinese]