

# Anne H. Davis

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University of Chicago  
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## Education

**University of Chicago** Ph.D. student in Geophysical Sciences  
**California Institute of Technology** B.S. in Chemistry, June 2016

## Research Experience

**2016-present** Graduate research assistant, University of Chicago, Laboratory for Mineral Physics  
Advisor: Dr. Andrew Campbell

**2015** Summer Scholar (Research Experiences for Undergraduates program), Carnegie Institution for Science, Geophysical Laboratory  
Advisor: Dr. Timothy Strobel  
Research project: Phase transitions in silicon quantum dots for solar energy conversion

**2013-2015** Summer Undergraduate Research Fellow, California Institute of Technology, Department of Chemistry  
Advisor: Dr. Harry Gray  
Research project: Using Organic Monolayers to Seed the Growth of Protective Films on Silicon by Atomic Layer Deposition

## Honors, Awards, and Grants

**2017-2020** National Science Foundation Graduate Research Fellowship

**2016-2021** Eckhardt Graduate Scholarship

**2016** Elaine K. Bernstein Women in Science Award

**2014-2016** REMSA Scholarship Recipient

**2014** Saul and John Cogen Memorial SURF Fellow

**2013** Donald S. Clarke SURF Fellow

**2012-2016** RSSI Scholarship Recipient

## Teaching Experience

**Spring 2017** Teaching assistant for PHSC 13400 (Global Warming)

**Winter 2017** Teaching assistant for GEOS 21000 (Mineralogy)

**Winter 2015** Teaching assistant for Ch 3a (Fundamental Techniques of Experimental Chemistry)

**2015-2016** Tutor for organic and inorganic chemistry

## Activities and Outreach

Upward Bound Volunteer, September 2015-present  
Phys. Sci. Div. NSF-GRFP prior winners panel, Univ. of Chicago, May 2017

Materials Research Society member 2015-2016

Ruddock House Vice President, 2015-2016

Chair of Head Upperclassman Counselor Council, 2015-2016

Ruddock House Social Chairman, 2014-2015

House Ambassador, 2014

Clarinetist in Caltech-Occidental Concert Band, 2012-2016

## Presentations

Zhang, H., **Davis, A.H.**, Strobel, T.A., Krishna, L., Klafehn, G., Collins, R.T., Taylor, C. Exploring Metastable Phase Transitions in Nanocrystalline Silicon Under Pressure. *2015 MRS Fall Meeting* (oral)

**Davis, A.H.** Solar Energy Conversion in Exotic Phases of Silicon. *2015 Lunch and Learn Series, Carnegie Institution for Science* (oral)