

# JENNIFER COOPER

Ph.D Student in Physics - website  
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## EDUCATION

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<b>University of Kansas</b>	<i>August 2017 - Present</i>
Madison & Lila Self Graduate Fellow, Ph.D Student in Physics	
<b>California State University Los Angeles</b>	<i>2015 - 2017</i>
Master of Science in Physics	<i>3.6 GPA</i>
Thesis: <i>Comparing High-redshift dropouts in the GOODS-S Field from MultiDrizzle and SelfCal maps - UC Irvine</i>	
<b>Cornell University</b>	<i>2009 - 2014</i>
Bachelor of Arts in Geophysics, <i>cum laude</i> & College of AAS Research Honors	<i>3.6 GPA</i>
Thesis: <i>Forgotten Volcanoes of the Global Deformation Task Force</i>	
Bachelor of Arts in Archaeology, Minor in Astrophysics	

## AWARDS & GRANTS

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<b>Madison &amp; Lila Self Graduate Fellowship</b>	<i>2017 - 2021</i>
NSF Travel Award - POLAR 2018	<i>2018</i>
Antarctic Science Ltd Travel Award	<i>2018</i>
American Astronomical Society International Travel Grant	<i>2014, 15, 16, 18</i>
Dorothy Clark Lettice Scholarship	<i>2017</i>
Outstanding Teaching - Frieda Stahl Fellowship	<i>2016</i>
FGSA Travel Grant for Excellence in Graduate Research, American Physical Society	<i>2016</i>
Hirsch Foundation Travel Grant for Fieldwork	<i>2012</i>

## PROFESSIONAL ACTIVITIES & SERVICES

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<b>Vice President</b> , Association of Polar Early Career Scientists (APECS)	<i>2018 - 19</i>
<b>APECS Representative</b> , Future Earth: Network of Networks	<i>2019 - present</i>
<b>Steering Committee Member</b> , SCAR Astronomy & Astrophysics	<i>2015 - present</i>
<b>Steering Committee Member</b> , SCAR Antarctic Volcanism	<i>2016 - present</i>
<b>Organizational Review Committee</b> , APECS	<i>2019</i>
<b>SOC</b> , 5th SCAR AAA Workshop, Mont Blanc, Italy	<i>2018 - 19</i>
<b>Organizing Chair</b> , APECS 2nd World Summit, Davos, Switzerland	<i>2017 - 18</i>
<b>Astronomy Session Convener</b> , SCAR 2016, Kuala Lumpur, Malaysia	<i>2016</i>
<b>Council Member</b> , Association of Polar Early Career Scientists	<i>2015 - present</i>
<b>LOC</b> , 3rd SCAR AAA Workshop, Volcano, HI	<i>2015</i>

## PUBLICATIONS

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- Henderson, S., Pritchard, M., **Cooper, J.**, and Aoki, Y. (2019) *Remotely sensed deformation and thermal anomalies at Mount Pagan, Mariana Islands*. Frontiers in Volcanology. Submitted.
- Fugmann, G., Fletcher T., **Cooper, J.**, Schulze, V., Spolaor, A. and APECS Executive Committee 2016-2017 (2016): Association of Polar Early Career Scientists (APECS) International Directorate Office - Shaping the Future of Polar Research (Project: No. 229563) - *Final Results Report for Research Council of Norway*. Tromsø, Norway, 46p.
- Thelen, W.A., and **Cooper, J.** *An analysis of three new infrasound arrays around Kilauea Volcano*: U.S. Geological Survey Open-File Report 20141253, 29 p.

## RESEARCH EXPERIENCE

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KU Graduate Research Assistant, Prof Gregory Rudnick - Galaxy Evolution	2017- present
UCI Graduate Research Assistant, Prof Asantha Coory - Image Processing	2016 - 17
USRA-SOFIA/NASA ARC Research Student, Dr. Randolph Klein - Star Formation	2015
ICRAR Pre-Doctoral Scholar, Prof Danial Obreschcow - Cosmological Simulations	2015
Cornell Undergraduate Research Assistant, Prof Matthew Pritchard - Volcano Geophysics	2013 - 15
University of Queensland Research Scholar, Dr. David Parkinson - Spectra Analysis	2013-14
Swinburne Univ. of Technology Research Scholar, Prof Karl Glazebrook - Galaxy Evolution	2013
Universidad de Colima Volcano Monitoring Intern, Prof Nick Varley - Volcano Geophysics	2013
Dept. of State US Embassy Moscow, Science Intern, David Citron - US/Russia Relations	2013
USGS HVO Seismological Intern, Dr. Weston Thelen - Volcano Geophysics	2012
SUNY Binghamton Archaeology Field Student - Pleistocene Excavation	2012
SETI Institute/NASA ARC REU Intern, Dr. Cristina Dalle Ore - Planetary Science	2011
Cornell Undergraduate Research Assistant, Prof Martha Haynes - Radio Astronomy	2010 - 12
Archaeology Field Intern, Shoals Marine Laboratory, Prof Nathan Hamilton	2010, 11

## PRESENTATIONS

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The Role of APECS in SCAR and the Polar Sciences. Contributed Talk. *SCAR AAA 5th Workshop*, June 2019. Mount Blanc, Italy.

Nature vs. Nurture in EDiSCS galaxies. Invited Talk. *Astrophysics Seminar, University of Missouri Physics & Astronomy*, April 2019. Columbia, MO.

Nature vs. Nurture in Galaxies. Invited Talk. *Red Hot Research, University of Kansas*, March 2019. Lawrence, KS.

A. Bliss, A. Bradley, O. Lee, **J. Cooper**, M. Dryak, E. Enderliln USAPECS: a national ECS network in the global context *American Union Geophysical Meeting*, December 2018. San Francisco, CA USA. Poster.

What's Ahead for USAPECS in 2018 - 2019? Invited Talk. *APECS Turkey Workshop on Outreach & Education*, October 2018. Istanbul, Turkey.

**J. Cooper**, A. Cooray, H. Nayyeri Comparing High-redshift Dropouts from GOODS-S in MultiDrizzle and SelfCal Maps *Msc Defense*, May 2017. CSULA, USA.

**J. Cooper**, C. Power, D. Obreschkow, S. Terebey Correlating Dark Matter Simulations to SPT Clusters *SCAR Open Science Conference 2016*, August 2016. Kuala Lumpur, Malaysia. Poster.

J. Jay, B. Andrews, M. Pritchard, **J. Cooper**, S. Henderson, F. Delgado, J. Biggs, S. Ebmeier, Preparing for Routine Satellite Global Volcano Deformation Observations: The Volcano Deformation Database Task Force. *American Union Geophysical Meeting*, December 2014. San Francisco, CA USA. Poster.

M. Pritchard, M. Furtney, **J. Cooper** VPG Spotlight: Is a zombie volcano a thing? 2014, *Education and Outreach Spotlight AGU*. Article.

M. Pritchard, J. Jay, J. Briggs, S. Ebmeier, **J. Cooper**, S. Henderson, F. Delgado Global synthesis of volcano deformation: results of the volcano deformation task force *American Union Geophysical Meeting*, December 2013. San Francisco, CA USA. Poster.

**Cooper, J. R.** Global Study of Volcanic Island Deformation Through InSAR *Undergraduate Research Symposium Presentation & Thesis Defense*, May 2014. Cornell University, Ithaca, NY.

W. Thelen, M. Garces, *J.R. Cooper*, N. Badger, A. Perttu, B. Williams, Infrasonic Monitoring Network on the Big Island *European Geosciences Union Meeting*, April 2013. Vienna, Austria.

**J. R. Cooper**, C. M. Dalle Ore, J. P. Emery, A Spitzer-based Classification of TNOs *American Geophysical Union Fall Meeting*, December 2011. San Francisco, CA USA. Poster.

F. Colas, J. Berthier, F. Vachier, F. Marchis, P. M. M. Jenniskens, J. W. Owen, B. Timerson, S. Preston, R. Venable, M. Allain, R. Cawthon, **J. R. Cooper**, J. Fixelle, S. Hicks, W. L. Meldman-Floch, J.

Minteer, M. Phillips, Shape and Size of (90) Antiope Derived From An Exceptional Stellar Occultation on July 19 2011. *American Geophysical Union Fall Meeting*, December 2011. San Francisco, CA USA. Poster.

## EXTRACURRICULARS

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University of Kansas Swim & Dive Club - Nationals Qualifier	<i>2018, 2019</i>
University of Kansas Marching Jayhawks Colorguard Member	<i>2017</i>
Cornell University Big Red Marching Band Colorguard Member	<i>2009 - 14</i>
NCAA Division 1 Cornell University Swimming & Diving Team	<i>2011</i>
NCAA Division 1 Cornell University Gymnastics Team	<i>2009 - 10</i>
USA Swimming - 14-time recorder holder, 25-time League Champion	<i>1996 - 2009</i>
USA Gymnastics - Junior Olympic Level 10 National Competitor	<i>1996 - 2009</i>