



## @MillerSouthPole: Honors Grad Explains Science from the South Pole

📅 January 31, 2017 (<http://sites.lsa.umich.edu/honors-blog/2017/01/31/millersouthpole-honors-grad-explains-science-from-the-south-pole/>) 👤 Jeri Preston (<http://sites.lsa.umich.edu/honors-blog/author/pjeri/>) ➦ Alumni (<http://sites.lsa.umich.edu/honors-blog/category/alumni/>)



(<http://sites.lsa.umich.edu/honors-blog/wp-content/uploads/sites/432/2017/01/kate-miller-south-pole-station-2017.jpg>)

Photo by Kate Miller (PolarTREC 2016), Courtesy of ARCUS

project called PolarTREC, which places teachers in Arctic and Antarctic research teams. They work on the science, but also act as ambassadors, sharing their experiences and the science with their students and those of other teachers across the country.” Miller’s students receive updates on her teacher Facebook (<https://www.facebook.com/MillerSouthPole/>) page, as she describes her journey, where one post shows 500 postcards addressed and stamped for her followers.

As always, “Wherever you are, Go Blue!”

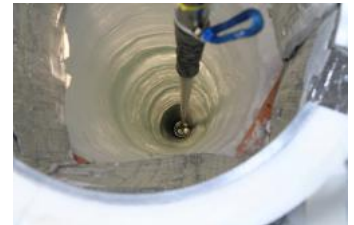
For more on her journey, visit: <https://www.polartrec.com/expeditions/ice-cube-neutrino-observatory-2016>

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Honors Alum and Voss Award Winner Kate Miller (2011 | Physics) is currently on the Ice Cube Neutrino Observatory Expedition to the South Pole Station. A teacher in Arlington, VA, Miller joined a group of teachers and researchers through PolarTREC (<https://www.polartrec.com/expeditions/ice-cube-neutrino-observatory-2016>), deploying the IceCube neutrino detector to discover in-ice particles, recording the interactions of neutrinos with protons or neutrons. Data collected by the group will formulate a “neutrino map,” which will be used to explore astronomical phenomena: gamma ray bursts, black holes, and exploding stars.

Miller and fellow researcher, Jim Masden, will live in the Amundsen-Scott Pole Station from December 24, 2016, to February 1, 2017, deploying IceCube’s sensitive light detectors on strings in ice holes made using a hot water drill. Her journal postings provide a day-in-the-life look at the experiment and at life in a frozen observatory, while the also website shares an overview, resources, and photos.

Says Physics Professor, Tim McKay, “Miller is a rockstar teacher, and is currently participating in a National Science Foundation funded



([http://sites.lsa.umich.edu/honors-blog/wp-content/uploads/sites/432/2017/01/kate-miller\\_ohara\\_12\\_10\\_img\\_0222-250x167.jpg](http://sites.lsa.umich.edu/honors-blog/wp-content/uploads/sites/432/2017/01/kate-miller_ohara_12_10_img_0222-250x167.jpg))

Photo: A hole drilled for a string of IceCube light detectors. Photo by Casey O’Hara.

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◀ Alum Update: Liz Lin Writes for HuffingtonPost.com & The Salt Collective (http://sites.lsa.umich.edu/honors-blog/2017/01/17/alum-update-liz-lin-writes-for-huffingtonpost-com-the-salt-collective/)

Congratulations to Honors Alum Buscov, Orwig, Gopal, Paull, and Rutledge, @UMich Fulbright Scholars. ▶ (http://sites.lsa.umich.edu/honors-blog/2017/02/22/congratulations-to-honors-alum-buscov-orwig-gopal-paull-and-rutledge-umich-fulbright-scholars/)



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