

KEVIN DALLASANTA

# Curriculum Vitæ

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RESEARCH **Atmospheric dynamics and climate**  
– Large-scale circulation of the atmosphere  
– Atmospheric model development  
– Predictability and modes of variability

EDUCATION **Courant Institute, New York University**, expected 2019  
Ph.D. Atmosphere–Ocean Science and Mathematics  
Thesis advisor: Edwin Gerber  
**St. Olaf College**, 2014  
B.A. Mathematics, B.A. Music, B.A. Physics; summa cum laude  
Research advisor: Robert Jacobel

TEACHING – Substitute lecturer: calculus, Earth’s Atmosphere & Ocean  
– Recitation leader: fluid dynamics, Earth’s Atmosphere & Ocean  
– Frequent grader and tutor

HONORS – Recipient of Moses A. Greenfield Prize, institute-wide award for best interdisciplinary research (2018)  
– Early Career Scientist award at the 2018 SPARC General Assembly  
– Best joint oral presentation award at the 2017 AMS Conference on Atmospheric and Oceanic Fluid Dynamics  
– MacCracken Fellow at New York University

SERVICE – Reviewer for *Atmospheric Chemistry and Physics*  
– President, Courant Students Organization (2016–2017)  
– Student host for guest colloquium lunches (2017–present)  
– Organizer of weekly student lunch seminar series (2014–2015)

*Updated November 2018.*

### Peer-reviewed journal articles

4. Kevin DallaSanta and Edwin P. Gerber. Downward propagation of equatorial geopotential anomalies, in prep.
3. Kevin DallaSanta, Edwin P. Gerber, and Matthew Toohey. The circulation response to volcanic forcing: the importance of stratospheric warming. In press at *J. Clim.*, 2018. [PDF](#)
2. Knut Christianson, Robert Jacobel, Huw Horgan, Richard Alley, Sridhar Anandakrishnan, David Holland, and Kevin DallaSanta. Basal conditions at the grounding zone of Whillans Ice Stream, West Antarctica, from ice-penetrating radar. *J. Geophys. Res.*, 2016. [PDF](#)
1. Robert Jacobel, Knut Christianson, Adam Wood, Kevin DallaSanta, and Rebecca Gobel. Morphology of basal crevasses at the grounding zone of Whillans Ice Stream, West Antarctica. *Ann. Glac.*, 2014. [PDF](#)

### Professional conference talks

3. The circulation response to volcanic eruptions: the importance of tropical stratospheric warming. Joint session of the American Meteorological Society's 21st Conference on Atmospheric and Oceanic Fluid Dynamics and the 19th Conference on Middle Atmosphere, Portland, Oregon, 27 June 2017.
2. Understanding the tropospheric jet response to volcanic forcing. SPARC Dyn-Var Workshop & S-RIP Meeting, Helsinki, 6 June 2016.
1. Morphology of basal crevasses at the grounding zone of Whillans Ice Stream, West Antarctica. IGS International Symposium on Radioglaciology, University of Kansas, 10 September 2013.

### Professional conference posters

4. Downward propagation of tropical geopotential anomalies. SPARC General Assembly, Kyoto, Japan, 4 October 2018.
3. The circulation response to volcanic eruptions: the key roles of stratospheric warming and eddy interactions. SPARC General Assembly, Kyoto, Japan, 4 October 2018.
2. The circulation response to volcanic eruptions: the key roles of stratospheric warming and eddy interactions. EGU General Assembly, Vienna, Austria, 11 April 2018.
1. Spatial variation of englacial attenuation rate across the grounding zone of Whillans Ice Stream, West Antarctica. IGS International Symposium on Radioglaciology, University of Kansas, 10 September 2013.