

Education

- Present Ph.D. Student, Geography, University of Colorado, Boulder
Advisor: Waleed Abdalati
- 2014 M.A Geography, University of California, Santa Barbara
Advisor: Dar Roberts
- 2011 B.A Geography and Philosophy, University of Colorado, Boulder
–Graduated Magna Cum Laude in Geography (CU)

Relevant Work Experience

- June 2014 – Present [*Cooperative Institute for Research in Environmental Sciences*](#)
Research Assistant
- Sept. 2013 – Aug. 2014 [*'BigData' Intel Science and Technology Center \(ISTC\)*](#)
Research Analyst, GSR, Earth Research Institute
Array-databases for remote sensing applications
- June 2012-Aug. 2012 *National Suborbital Education and Research Center*
June 2013-Aug. 2013 Research Mentor
June 2015-Aug. 2015 [*NASA Student Airborne Research Program \(SARP\)*](#)
- Sept. 2011-June 2013 *University of California, Santa Barbara*
Teaching Assistant (50%), Geography Department
Upper Division Remote Sensing Sequence (115 A, B & C)
- Oct. 2009-Sept. 2011 *CU ITS, UnixOps (Managed Services)*
Linux Systems Administrator, Software Developer

Peer Reviewed Journal Articles

- Colgan, W., Rajaram, H., Abdalati, W., McCutchan, C., Mottram, R., Moussavi, M., **Grigsby, S.** (2016). "Glacier Crevasses: Observations, Models and Mass Balance Implications." *Reviews of Geophysics*. [doi:10.1002/2015RG000504](https://doi.org/10.1002/2015RG000504)
- Pope, A., Scambos, T. A., Moussavi, M., Tedesco, M., Willis, M., Shean, D., and **Grigsby, S.** (2016) "Estimating supraglacial lake depth in western Greenland using Landsat 8 and comparison with other multispectral methods", *The Cryosphere*, 10, 15-27, [doi:10.5194/tc-10-15-2016](https://doi.org/10.5194/tc-10-15-2016)
- Grigsby, S. P.**, Hulley, G. C., Roberts, D. A., Scheele, C., Ustin, S. L., & Alsina, M. M. (2015). "Improved surface temperature estimates with MASTER/AVIRIS sensor fusion." *Remote Sensing of Environment*. [doi:10.1016/j.rse.2015.05.019](https://doi.org/10.1016/j.rse.2015.05.019)

Pending Peer Reviewed Publication(s)

- Christoffersen, P., Bougamont, M., Hubbard, A., Doyle, S., **Grigsby, S.** (*in review*) "Tensile shock triggers cascading lake drainage on the Greenland Ice Sheet" *Nature Communications*
- Moussavi, M., Abdalati, W., Pope, A., Scambos, T., Tedesco, M., MacFerrin, M., and **Grigsby, S.** (*in revision*) "Spaceborne derivation and validation of supraglacial water volumes along the western margin of the Greenland ice sheet" *Remote Sensing of Environment*

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Other Research Products

Grigsby, S., (2013), "Leaf-on LiDAR point cloud data for solar site assessment of the CU-Boulder campus", *Department of Geography, University of Colorado at Boulder, digital media*. doi: [10.5069/G9ZC80SR](https://doi.org/10.5069/G9ZC80SR)

Grigsby, S., (2011), "Derivation of Solar Insolation Estimates from LiDAR", *Undergraduate Honors Thesis, University of Colorado at Boulder*

Notable Talks Given

AGU 2015 Fall meeting (Dec. 17th, 2015)

"Facilitating comparisons between ICESat waveforms and ICESat-2 point data"

Seminar, NASA Ames* (March 13th, 2014)

"LST Retrieval Accuracy Using a Synthesis of Data from the HypsIRI Preparatory Flight Campaign"

FOSS4G 2011, Denver, CO (Sept. 15th, 2011)

"Open Source LiDAR Visualization Using GRASS GIS"

Google, Boulder, CO office* (July 9th, 2010)

"Data Integration and Generalization with LiDAR"

(invited)*

Grants

May 2013	TGIF Green Grow Lights Grant (Co-I)	\$38,785
March 2010	Sustainable CU Grant (PI)	\$22,400

Competitive Awards

August 2013	USGIF Geospatial Intelligence Scholarship	\$5,000
May 2011	GeoEye Fellowship	\$5,000
December 2010	Gilman Scholarship	\$4,500

Leadership

Sept. 2013 – May 2014	President, UCSB ASPRS Student Chapter
Aug. 2012 – May 2014	Chair, The Green Initiative Fund (UCSB)
July 2010 – Aug. 2011	Rep., Boulder Campus Planning Commission
March 2010 – Aug. 2011	Rep., Energy and Climate Revolving Fund

Posters

First author posters: PyCon (2013), ESIP (2014), PARCA (2016), Three at AGU (2012-2014)
Nine co-authored posters (AGU, 2012-2015); also co-author on two AGU talks (2015)

Software Competencies

Languages: Python, C++, Fortran, IDL, R, Shell Scripting
Programs: ENVI, GRASS GIS, Mayavi, ArcGIS, MATLAB, Mathematica, SciDB
Operating Systems: Linux, Mac, Windows, Solaris experience, HPC clusters

Other Relevant Skills

Flight Planning, Differential GPS, Surveying with LiDAR, Conversational Spanish,
Basic Electrical Repair, Extreme cold weather experience