# DANIEL J. VARON

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## RESEARCH INTERESTS

Satellite Remote Sensing · Machine Learning · Scientific Computing · Inverse Methods

## EDUCATION

**Harvard University** 2015 -
Ph.D. in Environmental Science, secondary field in Computer Science
*Advisor: Professor Daniel Jacob*

**Harvard University** 2015 - 2018
M.Sc. in Applied Mathematics

**McGill University** 2009 - 2014
B.Sc. in Physics, First Class Honours

**McGill University** 2010 - 2014
B.A. in English Literature, First Class Honours

## EXPERIENCE

**GHGSat, Inc.** 2016 -
Student research associate in data analytics.

## PUBLICATIONS

2018 **Varon, D. J.**, D. Jacob, J. McKeever, D. Jervis, B. O. A. Durak, Y. Xia, Y. Huang. "Quantifying methane point sources from fine-scale satellite observations of atmospheric methane plumes", *Atmospheric Measurement Techniques*. https://doi.org/10.5194/amt-11-5673-2018, 2018.

2015 **Varon, D. J.** "'The Drop Fell': Time-Space Compression in *The Waves*", *The Virginia Woolf Miscellany* 86, Fall 2014/Winter 2015: 36-39.

2013 Lovejoy, S., D. Schertzer, **D. J. Varon.** "Do GCMs predict the climate... or macroweather?", *Earth System Dynamics* 4, 439-454. doi:10.5194/esd-4-439-2013, 2013.

## CONFERENCE PRESENTATIONS

2018 Quantifying methane emissions from individual coal mine vents with GHGSat-D satellite observations. Poster presented at (A43R-3443) 2018 AGU Fall Meeting, Washington, DC, 10-14 Dec., 2018AGUFM.A43R3443M.

2018 *Quantifying methane point sources from fine-scale (GHGSat) satellite observations of atmospheric methane plumes. Abstract presented at 2018 IWGGMS meeting, Toronto, ON, 8-10 May, 2018.

2017 *Also presented at (A32D-07) 2017 AGU Fall Meeting, New Orleans, LA, 11-15 Dec., 2017AGUFM.A33G2450M, 2017.

## HONOURS & AWARDS

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| 2017 | Harvard University Certificate of Distinction in Teaching |
| 2015 | Stonington Graduate Fellowship of Environmental Science and Engineering. |
| 2014 | McGill University Dean's Honour List. |
| 2013 | McGill Faculty of Sciences Summer Research Award. |
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| 2011 | McGill Faculty of Sciences Summer Research Award. |

## PROGRAMMING SKILLS

**Substantial experience**: MATLAB, Python, R, Mathematica, LaTeX.
**Intermediate skill**: C, C++, shell script
**Basic familiarity**: FORTRAN, html.

## LANGUAGES

**English** (first language) · **French** (fluency)