DANIEL J. VARON

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RESEARCH INTERESTS

Atmospheric Chemistry · Inverse Methods · Remote Sensing · Radiative Transfer

EDUCATION

Harvard University 2015 -
Ph.D. in Atmospheric Chemistry
Advisor: Professor Daniel Jacob

McGill University 2009 - 2014
B.Sc. in Physics, First Class Honours
Honours thesis: *Star Forming Galaxies in the Merging RCS 2319+00 Supercluster*

This thesis project examines the structure and evolution of the RCS 2319+00 galaxy supercluster, which is in the process of a three-way merger. I identify thirty-eight starburst galaxies and estimate their star formation rates.

McGill University 2010 - 2014
B.A. in English Literature, First Class Honours
Honours Thesis: *Cognitively Estranging Spaces in Three Works of Science Fiction*

RESEARCH EXPERIENCE

Montréal Jewish General Hospital, Dept. of Radiation Oncology 6/2014 - 12/2014
Advisors: Drs. Tamim Niazi and Gabriela Stroian

· Contributed to a study on how the volume variability of pelvic organs (bladder, rectum, and prostate) correlates to toxicity in the outcome of 3D conformal radiation therapy for prostate cancer.
· Estimated daily organ volumes by contouring cone-beam CT-scans.

Montréal Jewish General Hospital, Dept. of Urology 6/2014 - 12/2014
Advisors: Drs. Jacques Corcos and Shachar Aharony

· Built the database for a study on artificial urinary sphincter implantations that aimed to identify correlations between previous treatments, pre-operative urodynamic studies, and operative outcome.

McGill University, Dept. of Physics 5/2013 - 6/2014
Advisor: Prof. Tracy Webb

· Mapped the distribution of starburst galaxies in the merging RCS 2319+00 galaxy supercluster and estimated star formation rates using an infrared galaxy template.

McGill University, Dept. of Physics 5/2011 - 5/2013
Advisor: Prof. Shaun Lovejoy

· Analyzed the scale-dependences of temperature and pressure fluctuations in the outputs of four climate models: the coupled ocean-atmosphere model ECHO-G; the Max Planck Institute Earth System Model (MPI-ESM); the Goddard Institute for Space Studies (GISS-E2-R) model; and the 20^{th}-Century Reanalysis (20CR) model.

PUBLICATIONS

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 macro-weather?", *Earth System Dynamics* 4, 439-454. doi:10.5194/esd-4-439-2013, 2013.

HONOURS & AWARDS

2015 Stonington Graduate Fellowship of Environmental Science and Engineering ($34200).
2014 McGill University Dean's Honour List.
2013 McGill Faculty of Sciences Summer Research Award ($4675).
2012 McGill Faculty of Sciences Summer Research Award ($4800).
2011 McGill Faculty of Sciences Summer Research Award ($1550).

PROFESSIONAL ASSOCIATIONS

Student Member: Canadian Association of Physicists, Institute of Physics, American Geophysical Union, and European Geosciences Union.

PROGRAMMING SKILLS

Substantial experience: R, Python, Mathematica, LaTeX, XeLaTeX.
Basic familiarity: C, MATLAB, html, Maple.

LANGUAGES

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