

Charlotte L. Haley

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Education

- 2009-2014 **PhD, Statistics**, *Queen's University (Canada)*,
Thesis: Nonparametric and Parametric Methods for Solar Oscillation Spectra.
Advisor: David J. Thomson
- 2008-2009 **MSc, Statistics**, *Queen's University (Canada)*,
Thesis: Statistical Analysis of Atrial Fibrillation Electrograms.
Advisors: David J. Thomson, Selim G. Akl, and Damian P. Redfearn
- 2004-2008 **BSc Hon Mathematics**, *Dalhousie University (Canada)*, Dean's List,
Thesis: On Wilson's Theorem.
Advisor: Karl Dilcher

Professional Appointments

- 2017- **Assistant Statistical Scientist**, *Argonne National Laboratory, Lemont, IL, USA*.
- 2014-2017 **Postdoctoral Appointee**, *Argonne National Laboratory, Lemont, IL, USA*, Advisor:
Mihai Anitescu.

Research Interests

Statistics and signal processing. Spatial statistics. Frequency domain analysis of time series and spatial datasets. Solar physics and power grid applications.

Honors & Awards

- 2013 **Queen Elizabeth II Graduate Scholarship in Science and Technology**,
Awarded to graduate students enrolled in science and technology disciplines.
- 2010-2011 **Ontario Graduate Scholarship**,
Merit-based scholarship awarded to a full-time graduate student in Ontario.
- 2011-2013 **Student Travel Awards**,
Statistical Society of Canada Congress (June 2011)
Applied Mathematics, Modeling and Computational Science Meeting (August 2013).
- 2009 & 2012 **R. Samuel Maclaughlan Scholarship**, (*Queen's*),
Awarded to first class master's and doctoral students.
- 2008 **Ralph and Frances Jeffery Mathematics Scholarship**, (*Dalhousie*),
Awarded to a graduating senior in honours mathematics.

Technical Proficiencies

Scientific Computing Matlab, Python, Julia, R, Fortran, Minitab, WinBUGS, SPSS, git, MySQL, LaTeX,
OS Linux (Ubuntu, Raspbian), Mac OSX, Windows, Android
Web Dev. HTML5, CSS3, JavaScript

Professional Memberships & Accreditation

- American Statistical Association (ASA) Professional Statistician (PStat), Chicago Chapter
- American Mathematical Society (AMS) ○ American Geophysical Union (AGU)
- IEEE member