Robert D. Schroll

Experience

Data Scientist in Residence, *The Data Incubator*   3/2016–Present
    Developed and improved teaching modules on topics in machine learning and data science
    Taught about 200 students per year, assisting their transition into industry
    Maintained and extended backend tools for application process and fellow management
    Ran corporate trainings to provide data science knowledge for specific business needs

Fellow, *The Data Incubator*   1/2016–2/2016

Open-source Software Development   2009–Present
    Re-designed email representation and user interface for the Geary mail client
    Developed LiTeX, Reflow, and Spelling, plugins for the LightTable IDE
    Wrote GTK backend and improved API for the Visvis Python plotting library

Postdoctoral Researcher, *Universidad de Santiago de Chile*   1/2012–12/2013
    Applied self-designed numerical code to several problems in the elasticity of thin sheets

Postdoctoral Researcher, *University of Massachusetts, Amherst*   8/2009–12/2011
    Developed adaptive multi-grid simulation of thin elastic sheets

PhD in Physics, *University of Chicago*   9/2003–7/2009
    Simulated drop impact with volume-of-fluid code; found agreement with experiments
    Discovered and analyzed a novel mechanism of flow driven by light scattering

BS in Physics, BS in Math, *University of Maryland*   9/1999–5/2003
    Graduated *summa cum laude*, completing Honors and Gemstone programs.

Languages: Python, C, C++, Vala, Scala, Bash, Matlab, Mathematica, LaTeX, Fortran
Frameworks: Spark (Scala and pySpark), MapReduce on Hadoop, Scikit Learn
Web Technologies: HTML, CSS, Javascript, Clojurescript, Bootstrap, Flask

Honors and Awards

Fondecyt Postdoctoral Project Award	2011–2013
National Science Foundation Graduate Research Fellowship	2003–2006
University System of Maryland Regents' Scholarship	1999–2003
Maryland Distinguished Scholar Scholarship	1999–2003
Maryland Senior Summer Scholars Grant	2001

Selected Publications

Capillary deformations of bendable films. Robert D. Schroll, Mokhtar Adda-Bedia, Enrique Cerda, Jiangshui Huang, Narayanan Menon, Thomas P. Russell, Kamil B. Toga, Dominic Vella, and Benny Davidovitch. *Phys. Rev. Lett.* **111**, 014301 (2013).

Impact of a viscous liquid drop. Robert Schroll, Christophe Josserand, Stéphane Zaleski, and Wendy Zhang. *Phys. Rev. Lett.* **104**, 034504 (2010).

Liquid transport due to light scattering. Robert D. Schroll, Régis Wunenburger, Alexis Casner, Wendy W. Zhang, and Jean-Pierre Delville. *Phys. Rev. Lett.* **98**, 133601 (2007).