



SCHOOL OF COMPUTING SEMINAR

CREATE ULSS SEMINAR

ANDREW STEVENSON
SCHOOL OF COMPUTING
QUEEN'S UNIVERSITY

THURS., JAN 29TH 2015
2:30-3:30 PM
DUPUIS HALL 217

Light Refreshments

F# AND FSLAB: DATA SCIENCE MADE EASY

F# is a functional-first programming language with several features that make doing data science a snap. Among these are type providers, which connects you to the data you need; F# interactive lets you explore this data with immediate feedback; and the all-in-one FsLab library allows you to organize, slice, sort, and visualize your results. These technologies support internet-scale data sources and allow you to navigate and analyze Big Data easily. I will demonstrate these features in a hands-on programming session taking on the role of a data scientist. No prior knowledge of F# is needed.

Andrew Stevenson is a PhD candidate at the School of Computing, Queen's University. He spent the summer of 2014 on internship at Microsoft Research in Cambridge, UK, under the mentorship of Don Syme, creator of F#. There he worked on an F# type provider for Wikipedia and an experimental framework to combine arbitrary type providers. His academic interests focus on programming language design, source transformation systems, and software engineering.