

New College of Florida

HPCC Systems Workshop

January 24-28, 9AM – 12PM

Overview

HPCC Systems is a distributed big data technology used by LexisNexis Risk Solutions (LNRS). It was, in fact, created by LNRS long before Hadoop came along, and it still serves as the core technology behind a \$3B/year business.

In this workshop you will be introduced to the HPCC Systems technology and to the data flow language used to program on it, ECL. The data you will be examining is a detailed global schedule of airline flights. Each record contains not only takeoff/landing places and times, but details regarding the plane, meals, and crew are included as well.

Agenda

All days

Three-hour workshop

There will be at least two 10–15 minutes break each day

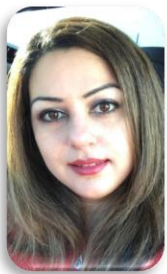
Day	Date	Agenda
Monday	01/24	Introduction to big data processing concepts (Using a deck of cards) Introduction to HPCC Systems Introduction to ECL IDE setup Data Discovery — getting acquainted with the flight data ECL hands-on
Tuesday	01/25	ECL concepts ECL hands-on
Wednesday	01/26	ECL concepts ECL hands-on
Thursday	01/27	Data Profiling ECL concepts ECL hands-on
Friday	01/28	ECL (cont'd) ECL hands-on Introducing final project

Presenters



Dan Camper

Dan is an Enterprise Architect in the Solutions Lab Group. He has worked for Apple as well as Dun & Bradstreet, and he ran his own custom programming shop for a decade. He's been writing software professionally for more than 40 years and has worked on a myriad of systems, using many different programming languages.



Bahareh Fardanian

Bahar is a Technology Evangelist with more than five years of extensive experience in Big Data, ETL and Data Science. Expert in design and develop scalable solutions using virtualized clustered technologies to address business needs from problem statement through solution delivery. She is currently involved in innovation to enhance an end user experience in HPCC Systems by building new cutting-edge tools, libraries, and training.



Jesse Shaw

Jesse Shaw is a Principal Data Scientist at LexisNexis Risk Solution Group. His area of focus is research and development with working on new product innovations within LexisNexis Risk Business Services. In addition to his computer degree, he has worked on his MBA degree at Saint Cloud University. His primary focus is fraudster behavior and social network analytics. Jesse's extensive background and passion for data analytics and data science fields has helped him contribute to multiple projects. During his extensive professional career, Jesse has worked with many teams in different roles, providing expertise in customer integration, cloud, and network security.



Lorrain Chapman

Lorraine has worked alongside software developers for over 20 years in a supportive role which has ranged from producing documentation including developing on-line help systems to software testing and release management. Lorraine also manages the HPCC Systems Intern Program and is an active blogger on our website covering a wide range of subjects from new release information, features and improvements and the work students have completed during their internships.

Student Pre-work (recommended, but optional)

Learn about ECL

Learn ECL: <https://hpccsystems-solutions-lab.github.io/>

HPCC Systems ECL Concepts videos

[HPCC Systems ECL Concepts Part 1](#)

[HPCC Systems ECL Concepts Part 2](#)

[HPCC Systems ECL Concepts Part 3](#)

[HPCC Systems ECL Concepts Part 4](#)

[HPCC Systems ECL Concepts Part 5](#)

[HPCC Systems ECL Concepts Part 6](#)