



# Monday Introduction Agenda & Goals

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# THE HITCHHIKER'S GUIDE

TO EXTRACTING SEDS AND SPECTRA  
FROM THE HERSCHEL SCIENCE ARCHIVE

A workshop to be held Oct. 6 - 10, 2014.  
On the Caltech campus in Pasadena, CA.  
Covering data from HIFI, PACS and SPIRE

### **Essentials Track**

Each investment of 3 hours will give you what you need to know to extract science from the data!

### **Master Track**

Attend the entire workshop to learn from our instrument experts how to handle special cases and large datasets!

### **Don't Panic**

<https://nhscsci.ipac.caltech.edu>  
[nhscworkshop@ipac.caltech.edu](mailto:nhscworkshop@ipac.caltech.edu)

# BigData TECHCON

San Francisco Area • Oct. 27–29, 2014



## New Classes Being Added!

Hi ,

We're still adding classes to Big Data TechCon, the How-To Big Data Conference coming to the S.F. Bay area Oct. 27-29. [Check out this one from Krishna Sankar](#), Chief Data Scientist at blackarrow.tv and a Distinguished Engineer at Cisco.

## The Hitchhiker's Guide to Machine Learning with Python & Apache Spark



*The Apache Spark framework is gaining popularity as a versatile Big Data fabric across varying levels of data pipelines, covering data management (collect-store-transform) and data science (modeling, reasoning, machine learning). The Python layer (pyspark) is particularly interesting as it enables data scientists and data*

National Aeronautics and Space Administration



DON'T LEAVE EARTH WITHOUT IT.

# THE EXPEDITION 42'S GUIDE TO THE GALAXY

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**DON'T PANIC.**

# Agenda for today

## Monday, October 6th: Introduction to Herschel

Start Time	Duration (min)	Title	Presenter	Type
1:30 PM	10	Welcome	Phil Appleton/Dave Shupe	Talk
1:40 PM	50	Quickstart (HSA and HIPE)	Dave Shupe	Talk + Hands-on
2:30 PM	30	Introduction to HIPE, Part I	Bernhard Schulz	Talk
3:00 PM	15	<b>Break</b>		
3:15 PM	30	Introduction to HIPE, Part II	Bernhard Schulz	Talk
3:45 PM	30	Digging Deeper into the HSA	Dave Shupe	Talk
4:15 PM	75	Hands-on w/Exercises		Hands-on
5:30 PM	<b>Day Ends</b>			

Goals: At the end of the session  
you should be able to:

- Install and configure HIPE
- Query the Herschel Science Archive (HSA) using the HSA User Interface (HUI)
- Import an observation from a tarball
- Send an observation from the HUI to HIPE
- Understand broadly the capabilities of HIPE for analysis
- Know how to use other ways to identify Herschel observations of interest

## Caveat: The archive can be unstable

- “Response times can be much longer than usual or the system can be fully unresponsive from time to time.”
- Due partly to technical issues, and to bulk reprocessing activity
- The good news: HSC has stopped reprocessing during our workshop

# After the Workshop

- User Manuals / Documentation
- HSC Webpages
- NHSC Webpages
- NHSC Helpdesk
- NHSC Workshops / Webinars
- Phone / Videocon / Visits at NHSC