

# Data Sciences Summer Institute at UIUC (2007)

## Foundations Course

- Probability and Statistics
- Linear Algebra
- Data Structures and Algorithms
- Optimization
- Clustering

## Tutorials

Databases & Information Integration  
Information Retrieval  
Machine Learning  
Computer Vision  
Data Mining

## Research Projects

(co-PI and Grad student led)  
Virtual Web: focused crawling  
Named Entity recognition  
Image annotation

## Speakers

Ed Hovy, ISI-USC  
Dan Roth, MIAS-UIUC  
Josef Ruppenhofer, Pitt  
AnHai Doan, UW Madison  
Chris Olston, Yahoo! Res  
Patrick Pantel, ISI-USC  
Tina Eliassi-Rad, LLNL  
Deva Ramanan, TTI

Therapy

Practice

Discovery

Bradh

[mias.uiuc.edu/dssi](http://mias.uiuc.edu/dssi)



# DSSI Outreach (2008)

One-day data immersion workshops for teachers and students:

- Motivating overview of Data Sciences with lots of applications and demos
  - Pilot of our new active learning curricular modules

Markov Chains

Clustering

Decision Trees

movies

- Introduction to student projects

pets

Virtual Ebert

Copy Detection

Image Classification

sports

- Rock-star technical talk from DSSI Speaker Series

music

- Discussion of CS diversity issues

friends

games

shopping

books

school

travel



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