IDSE LAUNCHES
MASTER OF SCIENCE PROGRAM
IN DATA SCIENCE

The Institute for Data Sciences and Engineering received New York State Department of Education approval for the Master of Science Program in Data Science in early August just in time to welcome a Fall 2014 inaugural cohort. The foundation of the program was built from the four-course Certification of Professional Achievement in Data Sciences which was launched in Fall 2013. This MS program will give students the opportunity to interact with diverse faculty members and students, conduct research opportunities included in a capstone project course, and available for industry interaction. READ MORE>

Applications for Fall 2015 admissions are now live and will be closing February 15th.

NEW STUDENT SPOTLIGHTS

YE OUYANG
ROBERT PICCONE
SRIVIDYA KANNAN RAMACHANDRAN

PROGRAM: MASTER OF SCIENCE
PROGRAM: CERTIFICATION OF PROFESSIONAL ACHIEVEMENT
PROGRAM: CERTIFICATION OF PROFESSIONAL ACHIEVEMENT

CERTIFICATION OF PROFESSIONAL ACHIEVEMENT IN DATA SCIENCES
MASTER OF SCIENCE IN DATA SCIENCE
NEW FACULTY HIGHLIGHTS

DAVID BLEI
Professor of Computer Science and Statistics
Research Areas: probabilistic topic models, Bayesian nonparametric methods and approximate posterior inference

MICHAEL BURKE
Assistant Professor of Mechanical Engineering
Research Areas: multi-scale modeling, data sciences, and automation applied in mixed-experimental-and-computational investigations of complex reaction networks and reacting flows encountered in advanced combustion and energy applications

AGOSTINO CAPPONI
Assistant Professor of Industrial Engineering and Operations Research
Research Areas: financial engineering with main focus on counterparty risk, systemic risk, and dynamic optimization

QIANG DU
Fu Foundation Professor of Applied Mathematics
Research Areas: topological analysis and geometric modeling of data and images, fast algorithms for clustering analysis, reduced order representations of dynamic data sets, and uncertainty quantifications of materials database

DANIEL HSU
Assistant Professor of Computer Science
Research Areas: algorithmic statistics, machine learning, and privacy

ALLISON LEWKO
Assistant Professor of Computer Science
Research Areas: cryptography, harmonic analysis, combinatorics, and distributed computing

JOHN PAISLEY
Assistant Professor of Electrical Engineering
Research Areas: developing Bayesian models and posterior inference techniques that address the Big Data problem, with applications to data analysis and exploration, recommendation systems, information
## IDSE Colloquium Series

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| OCT 15 | Dr. Hal Daumé III | Associate Professor of Computer Science, University of Maryland-College Park and University of Maryland Institute for Advanced Computer Studies and the Department of Linguistics  
Topic: “Algorithms that Learn to Think on their Fee” |
| NOV 5  | Dr. Suresh Naidu | Assistant Professor of International and Public Affairs, and Economics, Columbia University  
Topic: “Political Language in Economics” |
|       | Dr. Andrea Prat | Richard Paul Richman Professor of Business and Professor of Economics, Columbia University  
Topic: “How transparent should the Fed be? A computational linguistics approach” |
| DEC 3  | Dr. Matthew Jones | James R. Barker Professor of Contemporary Civilization, Department of History, Columbia University  

## 1³ (Institute-Industry Innovation) Seminar Series

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<th>Company</th>
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| OCT 7  | Bloomberg | Dr. James Zhang | Senior Software/Research Engineer, Bloomberg Labs  
| OCT 28 | Bloomberg | Dr. Prabhanjan “Anju” Kambadur | Senior Research Scientist, Knowledge Engineering, Bloomberg Labs  
Topic: “Modern Optimization Meets Physics: Recent Progress on Phase Retrieval” |

## Columbia University Community Co-sponsored Events

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| TUE, OCT 7 | CCLS Colloquium Series | Dr. Lazaros Gallos | Research Associate, Department of Ecology, Rutgers University  
| THU, OCT 9 | Distinguished Colloquium Series in Interdisciplinary & Applied Mathematics | Dr. Emmanuel Candes | Barnum-Simons Chair in Mathematics & Statistics, Stanford University  
Topic: “Modern Optimization Meets Physics: Recent Progress on Phase Retrieval” |
| FRI, OCT 10 | Department of Mechanical Engineering: Seminar Speaker | Dr. Michael Frenklach | Professor of Mechanical Engineering, University of California at Berkeley  
Topic: “Uncertainty Quantification Framework for Modeling Prediction” |

Further information about IDSE events may be found via [idse.columbia.edu/events/calendar](http://idse.columbia.edu/events/calendar)
ENGINEERING CONSORTIUM CAREER FAIR
HOSTED BY CENTER FOR CAREER EDUCATION
FRIDAY, OCTOBER 17, 2014 AT 10AM
ROONE ARLEDGE AUDITORIUM, ALFRED LERNER HALL

OVERVIEW AND REGISTRATION INFORMATION

INFORMATION SESSIONS

INTERESTED IN LEARNING MORE ABOUT THE
INSTITUTE FOR DATA SCIENCES AND ENGINEERING INCLUDING OUR ACADEMIC PROGRAM HIGHLIGHTS,
ADMISSION REQUIREMENTS, FINANCIAL AID AND STUDENT LIFE?
JOIN US DURING ONE OF OUR ONLINE INTERACTIVE INFORMATION SESSIONS!

THURSDAY, OCTOBER 16TH AT 8AM EDT
TUESDAY, NOVEMBER 11TH AT 6PM EST
MONDAY, OCTOBER 27TH AT 5:30PM EDT
WEDNESDAY, DECEMBER 3RD AT 8AM EST

FOR INFORMATION ON HOW TO REGISTER FOR ONE OF THESE SESSIONS VISIT: IDSE.COLUMBIA.EDU/APPLY

ABOUT US

THE INSTITUTE FOR DATA SCIENCES AND ENGINEERING AT COLUMBIA UNIVERSITY STRIVES TO BE THE SINGLE WORLD-LEADING INSTITUTION IN RESEARCH AND EDUCATION IN THE THEORY AND PRACTICE OF THE EMERGING FIELD OF DATA SCIENCE BROADLY DEFINED. EQUALLY IMPORTANT IN THIS MISSION IS SUPPORTING AND ENCOURAGING ENTREPRENEURIAL VENTURES EMERGING FROM THE RESEARCH THE INSTITUTE CONDUCTS. TO ACCOMPLISH THIS GOAL, THE INSTITUTE SEEKS TO FORGE CLOSER RELATIONSHIPS BETWEEN FACULTY ALREADY AT THE UNIVERSITY, TO HIRE NEW FACULTY, TO ATTRACT INTERDISCIPLINARY GRADUATE STUDENTS INTERESTED IN PROBLEMS RELATING TO BIG DATA, AND TO BUILD STRONG AND MUTUALLY BENEFICIAL RELATIONSHIPS WITH INDUSTRY PARTNERS. THE INSTITUTE SEEKS TO ATTRACT EXTERNAL FUNDING FROM BOTH FEDERAL AND INDUSTRIAL SOURCES TO SUPPORT ITS RESEARCH AND EDUCATIONAL MISSION.

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