



Two-Year College Data Science Summit

Made possible by Support from the National Science Foundation

Agenda

May 10 – May 11, 2018

Crystal Square 2, Booz Allen Hamilton
1550 Crystal Drive, Suite 1100, Arlington, VA 22202

DAY 1 – THURSDAY, MAY 10

- 8:30 – 9:00 Registration and Breakfast
- 9:00 – 9:10 Welcome
- 9:10 – 9:30 Introductions and Summit Goals – TYCDSS co-chairs: Rob Gould and Roxy Peck
What is data science? (programs geared towards helping students find meaning in data of all shapes and sizes)
- 9:30 – 10:00 Plenary: The Need for Data Scientists and the Role of Two-Year Colleges
Sallie Keller, Social & Decision Analytics Laboratory, Virginia Tech, 2006 ASA President
- 10:00 – 10:15 Plenary: The Student Perspective
Journey to Analytics: A Community College Student's Story
Antonella "Maria" Duni
- 10:15 – 10:45 Three Possible Pathways: "Straw Curriculum"
AA "entry data scientist" - Brad Thompson
Two-Year Transfer - Mary Rudis
Certificate - Brian Kotz
- 10:45-11:15 Break Assignments to groups
- 11:15 – 12:15 Working Group Breakout
Prompts: *What are ideal outcomes for a graduate of this program?*
What are ideal program outcomes?
What are feasible outcomes?
What prevents the feasible from becoming the ideal?
What should be in a successful student's portfolio?

- 12:15-1:00 Lunch
- 1:00 – 2:00 Working Group Breakout
Prompts: consider the "sample" curriculum; what needs to be changed/enhanced to meet the outcomes you discussed earlier?
- 2:00 – 2:30 Break
- 2:30 – 4:00 Reports from Working Groups and Summary of Discussion
- 4:00 – 4:15 Wrap-up and Homework Assignment; Overview of Day 2

Dinner in self-chosen groups on your own

DAY 2 – FRIDAY, MAY 11

- 8:00-8:30 Breakfast
- 8:30 – 10:15 Jigsaw Discussion Groups
- 10:15 – 10:30 Break
- 10:30 – 12:30 Working Group Breakout
- 12:30-1:15 Lunch
- 1:15-2:15 Working Group Reports
- 2:15-2:45 Resources and Challenges
- 2:45-3:00 Next Steps and Closing

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Organizing Committee

- **Rob Gould**, chair (2016–2017), ASA/AMATYC Joint Committee; director, UCLA Center for Teaching Statistics; professor of statistics, UCLA; co-author of PCMI Guidelines; participant in ODI Global Data Literacy workshop
- **Beth Hawthorne**, chair, ACM Committee for Computing Education in Community Colleges; vice chair, ACM Education Board; community college representative to the ACM Education Policy Committee; senior professor of computer science, Union County College
- **Nicholas Horton**, professor of mathematics and statistics, Amherst College; NAS data science education roundtable member
- **Randy Kochevar**, co-principal investigator, Pathways for Big Data Careers; director, Oceans of Data Institute
- **Brian Kotz**, professor of mathematics and statistics and Data Science Development Team lead, Montgomery College
- **Roxy Peck**, vice chair, ASA Education Council; professor emerita, Department of Statistics, California Polytechnic State University, San Luis Obispo
- **Mary Rudis**, director of Practical Data Science Program and professor of mathematics, Great Bay Community College
- **Brad Thompson**, Instructor, Mathematics and Statistics, Delaware Technical Community College; Instructional Designer, Center for Creative Instruction & Technology, DTCC.
- **Heikki Topi**, principal investigator, Exploring the Status of Education for Data Science Workshop, October 2015; professor of computer information systems, Bentley University

ASA Director of Strategic Initiatives and Outreach Donna LaLonde, ASA Director of Education Rebecca Nichols, and ASA Director of Science Policy Steve Pierson are providing support on behalf of the American Statistical Association.