

DATA SCIENCE FOR THE PUBLIC GOOD

SYMPOSIUM 2017

Event Sponsors:



*The Office of the Vice President
in the National Capital Region*

12:30 PM Registration

1 PM Welcome & Introductions

Sallie Keller, Director and Professor of Statistics, SDAL

1:15 PM Welcoming Remarks

Steven H. McKnight, Vice President of Virginia Tech National Capital Region

1:30 PM Keynote Speakers

Nancy Potok, Chief Statistician of the United States, Office of Management and Budget

David Yokum, Director, The Lab @ DC, Executive Office of the Mayor, Office of the City Administrator

2:30 PM – 2:45 PM Speed Session

DSPG Fellows and students promote their research posters and invite the audience to review their posters

2:45 PM – 5 PM

Poster Session & Networking Reception

Keynote Speakers

Nancy Potok, Chief Statistician of the United States, Office of Management and Budget

Dr. Nancy Potok was formerly the Deputy Director and Chief Operating Officer of the U.S. Census Bureau. She previously served at the U.S. Department of Commerce as Deputy Under Secretary for Economic Affairs, the Census Bureau's Associate Director for Demographic Programs, and the Principal Associate Director and Chief Financial Officer in charge of Field Operations, Information Technology, and Administration for the 2000 Census.

David Yokum, Director, The Lab @ DC, Executive Office of the Mayor, Office of the City Administrator

David Yokum, JD, PhD, is Director of The Lab @ DC, a new initiative from the Executive Office of the Mayor of the District of Columbia Government. The Lab @ DC emerges from a vision to systematically incorporate the scientific method into day-to-day governance. It is a team of applied scientists, working in the Office of the City Administrator and in partnership with a network of universities and research centers, who conduct empirical projects to generate evidence that informs the District's most important decisions. Dr. Yokum was previously a founding member of the White House's Social & Behavioral Sciences Team and the Director of its scientific delivery unit housed at the U.S. General Services Administration, Office of Evaluation Sciences.

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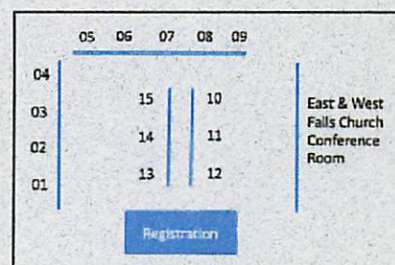
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MAP



Posters:

01 - STEM Education Pathways

Ben Swartz* (VT), Madison Arnsbarger (VT), Chanida Lerdritsomboon (VT), Hannah Brinkley (VT)

SDAL: Bianica Pires and Stephanie Shipp

Sponsor: Pat Ruggles, The National Center for Science & Engineering Statistics at NSF

02 - Exploring the Scope and Impact of Open Source Software

Eirik Iversen* (VT), Ben Swartz (VT), Claire Kelling (PSU), Sayali Phadke (PSU)

SDAL: Gizem Korkmaz and Stephanie Shipp

Sponsor: Carol Robbins, The National Center for Science & Engineering Statistics at NSF

03 - Modeling the Impact of Open Source Software: A Study of R Packages

Claire Kelling* (PSU), Eirik Iversen (VT), Ronnie Fecso (VT)

SDAL: Gizem Korkmaz and Stephanie Shipp

Sponsor: Carol Robbins, The National Center for Science & Engineering Statistics at NSF

04 - Discovering Non-Traditional Data Sources for Business Innovation

Harsimrat Pandher* (VT), David Park (VT), Daniel Wilkin (VT), Joseph Kim (VT), Claire Kelling (PSU)

SDAL: Gizem Korkmaz and Stephanie Shipp

Sponsor: Gary Anderson, The National Center for Science & Engineering Statistics at NSF

05 - Profiling Army Bases

Adrienne Rogers* (VT), Zarni Htet (NYU), David Hinkle (VT), Joseph Kim (VT), David Park (VT)

SDAL: Joshua Goldstein and Stephanie Shipp

Sponsors: Greg Ruark, Andrew Slaughter, US Army Research Institute for Behavioral & Social Science Research

06 - Arlington County: How Do Events Affect Crime?

Hannah Brinkley* (VT), Craig Morton (VT), Claire Kelling (PSU), Sayali Phadke (PSU)

SDAL: Josh Goldstein and Gizem Korkmaz

Sponsor: Captain Bruce Benson and Niki Levy, Arlington County Police Department

07 - Arlington County: Characterizing Communities for Crime Rate Inference

Sean Pili* (VT), Kyle Morgan (VT), Claire Kelling (PSU)

SDAL: Joshua Goldstein and Gizem Korkmaz

Sponsor: Captain Bruce Benson, Niki Levy, Arlington County Police Department

08 - Arlington County: Modeling Response Time for Structure Fires

Madison Arnsbarger* (VT), Claire Kelling (PSU)

SDAL: Joshua Goldstein and Gizem Korkmaz

Sponsor: Battalion Chief Michael Gowen, Arlington County Fire Department

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09 - Arlington County: How Many Clients Do We (Department of Human Services) Serve?

Zarni Htet* (NYU) and Sayali Phadke (PSU)

SDAL: Aaron Schroeder

Sponsors: Anita Friedman, Martha Coelho, Michael-Dharma Irwin, Biljana Culibrk, and Meheret Asfaw, Arlington Department of Human Services (DHS)

10 - Fairfax: Exploring Mental Health Services for Fairfax County Youth

Zarni Htet (NYU), Chanida Lerdritsomboon* (VT), Eirik Iversen (VT), Ben J. Swartz (VT)

SDAL: Joshua Goldstein, Vicki Lancaster, and Stephanie Shipp

Sponsor: Michelle Gregory, Sophia Dutton, and Linda Hoffman, Fairfax Health and Human Services (HHS)

11- WMATA: A Study on Bus Fare Evasion

David Hinkle*, Eirik Iversen, Craig Morton, Simmu Phander, Lata Kodali (VT), Zarni Htet (NYU)

SDAL: Vicki Lancaster and Aaron Schroeder

Sponsor: Jayme M. Johnson, Catherine Vanderwaart, Washington Metropolitan Area Transit Authority (WMATA)

12 - SCHEV - Creating Synthetic Data for Virginia Longitudinal Data System (VLDS)

Sean Pili, Kyle Morgan (VT), Ronnie Fesco (VT), and Lata Kodali (VT)

SDAL: Aaron Schroeder

Sponsor: Tod Massa, State Council for Higher Education in Virginia (SCHEV)

13 - Roanoke: Analyzing the Economic Impact and Social Integration of Refugees

Claire Kelling (PSU), Craig Morton* (VT), Kyle Morgan (VT), Craig Morton (VT), Hannah Brinkley (VT), Adrienne Rogers (VT)

SDAL: Mark Orr, Bianica Pires, Stephanie Shipp

Partners: School for Public and International Affairs (SPIA), Global Forum on Urban and Regional Resilience, other international groups at Virginia Tech

14 - New Kent: Profile of New Kent, VA

David Park*, Joseph Kim, David Hinkle, Lata Kodali (VT)

SDAL: Dave Higdon and Stephanie Shipp

Sponsor: Carl Frick, Virginia Corporate Extension (VCE) representative

15 - Alexandria: Defining and Measuring Equity in Alexandria, VA

Ronnie Fesco* (VT), Daniel Wilkin (VT), Sayali Phadke (PSU)

SDAL: Mark Orr (SDAL) and Stephanie Shipp (SDAL)

Sponsor: Emily Molfino (City of Alexandria)

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DSPG 2017 Participants

Name	Email	Affiliation	Major
Maddie Arnsbarger	maddieka@vt.edu	Virginia Tech	Economics and Sociology
Hannah Brinkley	hsbb8@vt.edu	Virginia Tech	Biological Sciences
Daniel Chen	chend@vt.edu	Virginia Tech	Genetics, Bioinformatics & Computational Biology
Ronnie Fecso	ronnief1@vt.edu	Virginia Tech	Computational Model & Data Analytics
David M. Hinkle	dmhink12@vt.edu	Virginia Tech	Business Information Technology
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Daniel Wilkin	dwilk93@vt.edu	Virginia Tech	Biological Systems Engineering