## **Program - Virtual Workshop**

## Government Advances in Statistical Programming (GASP) Wednesday, 2 February – Thursday, 3 February 2022

To Register: https://nsf.zoomgov.com/webinar/register/WN Qu26asx0THitqbhK6MtxlA

Time (ET)	Wednesday 2 February 2022		
12:00 – 12:30 pm	Welcome – Emilda Rivers, Director, National Center for Science and Engineering Statistics, National Science Foundation		
12:30 – 1:45 pm	Paper session 1: Machine Learning and Natural Language Processing Chair: Kelsey Gray		
	Title	Presenter	
	Improving Public Comment Review with Machine Learning and Advanced Analytics	Rob Chew (RTI International)	
	Bringing Efficiencies to Criminal Justice Manual Coding through Machine Learning	Anna Godwin (RTI International)	
	Machine-Learning Based Identification of Federally Funded Research Topics	Eric J. Oh (University of Virginia)	
	An Automated Data Collection and Record Linkage Pipeline for Program Evaluation	Brandon Sepulvado (NORC)	
1:45 – 2:30 pm	Lightning Talks 1: Machine Learning and Automation Chair: Peter Baumgartner		
	Title	Presenter	
	Automating Checks for the CPS ASEC Poverty Detailed Tables	John Creamer (US Census Bureau)	
	Automating an ecological data workflow	Jeffrey W. Hollister (US	
	with GitHub Actions and R imodels: a python package for fitting interpretable models	Environmental Protection Agency) Chandan Singh (UC Berkeley)	
	h2o in R: machine learning in the Medical Expenditure Panel Survey	Emily Mitchell (AHRQ)	
2:30 – 2:45 pm	Break		
2:45 – 3:30 pm	Lightning Talks 2: Natural Language Processing Chair: Cecile Murray		
	Title	Presenter	
	Automating Quality Assessment of Survey Interviews	Kasey Jones (RTI International)	
	Using Natural Language Processing to	Josh Cox (Regional Educational	
	Analyze Qualitative Data	Laboratory Northeast & Islands)	

Time (ET) 3:30 – 5:00 pm	Wednesday 2 February 2022 Paper session 2: Advances in Statistical Modeling Chair: Drake Gibson		
	Title	Presenter	
	A Variable Selection Method for Small Area Estimation Modeling	Weijia Ren (Westat)	
	Regularization and Parametric Reduction for Fellegi-Sunter in Record Linkage	Daniel Weinberg (U.S. Census Bureau)	
	Bridging models to reconcile statistics based on data from multiple sources	Andreea Erciulescu (Westat)	
	A Spatiotemporal Analysis of County- Level Rental Rates	Wesley Burnett (Economic Research Service, USDA)	
	Two-Dimensional Statistical Manifold of Tornado Property Losses	Thilini Mahanama (Texas Tech University)	

<b>Time (ET)</b> 11:00 am – 12:00 pm	Thursday 3 February 2022  Workshop: Git Started with Version Control with Cecile Murray		
12:00 – 12:15 pm	Day 2 welcome		
12:15 – 1:00 pm	Lightning Talks 3: Development to Production Chair: Kelsey Gray		
	Title	Presenter	
	Paper, Prototype, Production: Application Development for Survey	Yong Li (Emily) Dich (US Census / Reveal Global Consulting)	
	Banff and Simputation: A Comparison Using BEA's Multinational Enterprise Surveys	Larkin Terrie (Bureau of Economic Analysis)	
	A System for Efficient Dataset Documentation Production	Weihuang Wong (NORC)	
	Modularized Statistical Disclosure Control In Data Warehouse Environment.	Russell Ballard (Accenture Federal Services)	
	"Moderation in Network Analysis on Time-Series Data Using R: A Case Study	Anastasia Galkina (UNIMIB)	
1:00 – 1:45 pm	Panel: Data Science's Real "Hidden Layer": IT Environments Organizer and Chair: Christian Moscardi (U.S. Census Bureau) Panelists:		
	<ul> <li>Cecile Murray (U.S. Census Bureau)</li> <li>Jess Klein (U.S. Census Bureau)</li> </ul>		
	Taylor Hanson (U.S. Census	Bureau)	
1:45 – 2:00 pm	Break		

	Title	Presenter	
	2020 Census Real Time Analysis of Data (RTAD)	Tracae McClure (U.S. Census Bureau)	
	America at Work: Multivariate data display for Labor Force Statistics [BLS]	Wendy B. Dickinson, Ph.D. (University of South Florida)	
	Building Web Dashboards with Harness-	Alex Harding (RTI International)	
	Static to Interactive: Successes and pitfalls when using publicly available government data to modernize the Department of Transportation's reporting	Austin Lampros (Department of Transportation)	
	Creation of R Shiny Applications to Illustrate the Growclusters Package	Randall Powers (Bureau of Labor Statistics)	
	VeridicalFlow: building trustworthy data science pipelines with PCS	James Duncan (UC Berkeley)	
	"United States Marine Forces Special Operations Command (MARSOC) Preservation of the Force and Family POTFF Application Center: Al Automated HP System"	Joseph Lipoff (MARSOC)	
– 4:30 pm	Paper session 3: Data Systems, Usability, Reporting Chair: Peter Meyer		
	Title	Presenter	
	Data Modernization for 'Health, US'	Barnali Das (National Center for Health Statistics)	
	Automated Collection of Publicly Available Data from the Internet	Mike Castro (U.S. Census Bureau)	
	Creating a performant & reliable estimation system using open-source tools	lan Thomas (RTI International)	
	Helping Federal Clients Move from Table-	Marcia Underwood (RTI	

Presented by the Computational Statistics for the Production of Official Statistics (CSPOS) Interest Group of the Federal Committee on Statistical Methods (FCSM).