

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

# Program

<b>Time (ET)</b>	<b>Wednesday 2 February 2022</b>										
12:00 -12:27 pm	<p><b>Welcome by Lisa Frehill</b>, co-chair of the organizing committee</p> <p><b>Nathan Cruze</b> on CSPOS and FCSM</p> <p><b>Carol Robbins</b> of NSF, introduces Emilda Rivers</p> <p><b>Emilda Rivers</b>, Director, National Center for Science and Engineering Statistics, National Science Foundation</p> <p><b>Carol Robbins</b> of NCSES, thanks and handoff</p>										
12:30 – 1:45 pm	<p><b>Paper session 1: Machine Learning and Natural Language Processing</b> Chair: <b>Kelsey Gray</b></p> <table border="1"> <thead> <tr> <th><b>Title</b></th> <th><b>Presenter</b></th> </tr> </thead> <tbody> <tr> <td>Improving Public Comment Review with Machine Learning and Advanced Analytics</td> <td>Rob Chew (RTI International)</td> </tr> <tr> <td>Bringing Efficiencies to Criminal Justice Manual Coding through Machine Learning</td> <td>Peter Baumgartner (Explosion AI)</td> </tr> <tr> <td>Machine-Learning Based Identification of Federally Funded Research Topics</td> <td>Eric J. Oh (University of Virginia)</td> </tr> <tr> <td>An Automated Data Collection and Record Linkage Pipeline for Program Evaluation</td> <td>Brandon Sepulvado (NORC)</td> </tr> </tbody> </table>	<b>Title</b>	<b>Presenter</b>	Improving Public Comment Review with Machine Learning and Advanced Analytics	Rob Chew (RTI International)	Bringing Efficiencies to Criminal Justice Manual Coding through Machine Learning	Peter Baumgartner (Explosion AI)	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)
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1:45 – 2:30 pm	<p><b>Lightning Talks 1: Machine Learning and Automation</b> Chair: <b>Peter Baumgartner</b></p> <table border="1"> <thead> <tr> <th><b>Title</b></th> <th><b>Presenter</b></th> </tr> </thead> <tbody> <tr> <td>Automating Checks for the CPS ASEC Poverty Detailed Tables</td> <td>John Creamer (US Census Bureau)</td> </tr> <tr> <td>Automating an ecological data workflow with GitHub Actions and R</td> <td>Jeffrey W. Hollister (US Environmental Protection Agency)</td> </tr> <tr> <td>imodels: a python package for fitting interpretable models</td> <td>Chandan Singh (UC Berkeley)</td> </tr> <tr> <td>h2o in R: machine learning in the Medical Expenditure Panel Survey</td> <td>Emily Mitchell (AHRQ)</td> </tr> </tbody> </table>	<b>Title</b>	<b>Presenter</b>	Automating Checks for the CPS ASEC Poverty Detailed Tables	John Creamer (US Census Bureau)	Automating an ecological data workflow with GitHub Actions and R	Jeffrey W. Hollister (US Environmental Protection Agency)	imodels: a python package for fitting interpretable models	Chandan Singh (UC Berkeley)	h2o in R: machine learning in the Medical Expenditure Panel Survey	Emily Mitchell (AHRQ)
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2:30 – 2:45 pm	Break										

<b>Time (ET)</b>		<b>Wednesday 2 February 2022</b>	
2:45 – 3:30 pm	Lightning Talks 2: Natural Language Processing Chair: <b>Cecile Murray</b>		
	<b>Title</b>	<b>Presenter</b>	
	Automating Quality Assessment of Survey Interviews	Kasey Jones (RTI International)	
	Using Natural Language Processing to Analyze Qualitative Data	Josh Cox (Regional Educational Laboratory Northeast & Islands)	
	ORS Task List Classification - Topic Modeling	Drake Gibson (Bureau of Labor Statistics)	
	Python for Paperwork Reduction Act Management and Reporting	Ed O'Brien (Department of Labor)	
3:30 – 5:00 pm	<b>Paper session 2: Advances in Statistical Modeling</b> Chair: <b>Drake Gibson</b>		
	<b>Title</b>	<b>Presenter</b>	
	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)	
	Wrap up of day 1: Drake Gibson		

Time (ET)	Thursday 3 February 2022												
11:00 am – 12:00 pm	<b>Cecile Murray’s morning workshop: Git Started with Version Control</b>												
12:00 - 12:15 pm	<b>Day 2 welcome</b> <b>Peter Meyer</b> , co-chair welcome and logistics												
12:15 – 1:00 pm	<p><b>Lightning Talks 3: Development to Production</b> Chair: <b>Kelsey Gray</b> opens and at 12:15 pm and then at a little before 1:00 hands over to <b>Christian Moscardi</b>.</p> <table border="1" data-bbox="492 533 1432 984"> <thead> <tr> <th data-bbox="492 533 967 569">Title</th> <th data-bbox="967 533 1432 569">Presenter</th> </tr> </thead> <tbody> <tr> <td data-bbox="492 569 967 638">Paper, Prototype, Production: Application Development for Survey</td> <td data-bbox="967 569 1432 638">Yong Li (Emily) Dich (US Census / Reveal Global Consulting)</td> </tr> <tr> <td data-bbox="492 638 967 730">Banff and Simputation: A Comparison Using BEA’s Multinational Enterprise Surveys</td> <td data-bbox="967 638 1432 730">Larkin Terrie (Bureau of Economic Analysis)</td> </tr> <tr> <td data-bbox="492 730 967 800">A System for Efficient Dataset Documentation Production</td> <td data-bbox="967 730 1432 800">Wei Huang Wong (NORC)</td> </tr> <tr> <td data-bbox="492 800 967 892">Modularized Statistical Disclosure Control In Data Warehouse Environment.</td> <td data-bbox="967 800 1432 892">Russell Ballard (Accenture Federal Services)</td> </tr> <tr> <td data-bbox="492 892 967 984">“Moderation in Network Analysis on Time-Series Data Using R: A Case Study</td> <td data-bbox="967 892 1432 984">Anastasia Galkina (UNIMIB)</td> </tr> </tbody> </table>	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	Wei Huang 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)
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1:00 – 1:45 pm	<p><b>Panel: Data Science’s Real “Hidden Layer”: IT Environments</b></p> <p>Organizer and Chair: Christian Moscardi (U.S. Census Bureau) Panelists:</p> <ul style="list-style-type: none"> <li>• Cecile Murray (U.S. Census Bureau)</li> <li>• Jess Klein (U.S. Census Bureau)</li> <li>• Taylor Hanson (U.S. Census Bureau)</li> </ul> <p><i>Q&amp;A between audience and panelists</i></p>												
1:45 – 2:00 pm	Break												

<b>Time (ET)</b>		<b>Thursday 3 February 2022</b>	
2:00 – 3:15 pm	<b>Lightning Talks 4: Dashboards and Data Visualization</b> Chair: <b>Carol Robbins</b>		
	<b>Title</b>	<b>Presenter</b>	
	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-Vue	Alex Harding (RTI International)	
	Static to Interactive	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: AI Automated HP System”	Joseph Lipoff (MARSOC)	
3:15 – 4:30 pm	<b>Paper session 3: Data Systems, Usability, Reporting</b> Chair: <b>Peter Meyer</b>		
	<b>Title</b>	<b>Presenter</b>	
	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	Ian Thomas (RTI International)	
	Helping Federal Clients Move from Table-based Reporting to Dynamic Dashboards	Marcia Underwood (RTI International)	
4:30 – 5:00 pm	<b>Closing keynote presentation:</b> Mike Linksvayer (GitHub) <b>Chair &amp; interviewer:</b> José (Bayoán) Santiago-Calderón (BEA)  <b>Nathan Cruze: Closing remarks</b> <b>Goodbye from all organizers</b>		

The organizers thank the NSF for providing the Zoom service for all attendees.  
We thank Dahlia Saleh of NSF for helping organize the conference and being a contact point.  
We thank Derrick Hampton of NSF for audio/visual support during the event.