

GASP 2020

November 6, 2020, 9:00 am- 6:00 pm Eastern Time

For the online version of this program, see: <https://sites.google.com/view/gasp2020>

9:00am- 9:05am Welcome and introductions
Chairperson: Mike Jadoo
9:05am- 9:20am "Networking effectively in a virtual environment"
Robert Brandau- Career Confidence
9:25am-10:05 am [Keynote speaker- Scott Gibbons](#)
Chief Data Officer at Department of Labor

10:10am-11:30am Session 1 Regular presentations

Theme: Use cases in Data Visualization and Big data

Chairperson: S. Gwynn Sturdevant

10:10am-10:30am "[Visualizing the Impact of COVID-19 on WIC](#)", Kelsey Gray - Insight Policy Research [\[CODE\]](#)

10:30am-10:50am "[Modern Data Science Techniques for Visualization](#)", James Cutler- U.S. Army [\[PRESENTATION\]](#)

10:50am-11:10am "[Analyze Global COVID-19 data with data visualization](#)", Mythili Krishnan [\[CODE\]](#) [\[PRESENTATION\]](#)

11:10am-11:30am "[Profiling statistical programming language performance for large-scale data tasks](#)", Cecile Murray- US Census [\[CODE and Material\]](#)

11:33 am -12:33pm Lightning round 1

Chairperson: Mitchell Shuey

11:33am-11:43am "[Augmented CPS data on industry and occupation](#)", Peter Meyer- Bureau of Labor Statistics, Kendra Asher, Bureau of Labor Statistics [\[PRESENTATION\]](#)

11:43am-11:53am "[APIs: you're probably not using them and why you probably should](#)", Josiah Parry- RStudio [\[PRESENTATION\]](#)

11:53am-12:03pm "[Online Winsorization of Construction Price Statistics](#)", Charles Coleman -US Census Bureau [[CODE](#)] [[PRESENTATION](#)]

12:03pm-12:13pm " [Libraries and E-Rate Funding: How I Built a Data Pipeline in R from a Scheduled R Script on AWS to a Shiny Dashboard](#)", Bree Norlander -University of Washington Technology & Social Change (TASCHA) Group , Chris Jowaisas-University of Washington Technology [[CODE and SLIDES](#)]

12:13pm-12:23pm "[A picture is worth a thousand labor hours: pinpointing efficiency opportunities in the processing of data from large-scale, complex surveys.](#)", Lauren Warren - RTI International

12:23pm-12:33pm "[Crop classification and uncertainty assessment at 10 m resolution using Google Earth Engine](#)", Luca Sartore -USDA NASS

12:33pm-1:05pm Lunch

1:05pm- 3:05pm Session 2 Regular presentations

Theme: Artificial Intelligence and Natural Language Processing techniques

Chairperson: Peter Meyer

1:05pm-1:25pm "[Building Neural Networks in R with External Machine Learning Engines](#)", Philip Waggoner - University of Chicago [[CODE](#)]

1:25pm-1:45pm "[Using Named Entity Recognition to Identify Substances used in Self-Medication of Opioid Withdrawal](#)" , Peter Baumgartner- RTI International [[PRESENTATION](#)]

1:45pm-2:05pm"[From Natural Language Processing and Graph Data Models to Knowledge Graphs](#)", Chris Marokov- Office of Management and Budget (OMB), Executive Office of the President [[PRESENTATION](#)]

2:05pm-2:25pm"[Detecting Pharmaceutical Innovations in News Articles and Financial Filings](#)", Gizem Korkmaz- Biocomplexity Institute, University of Virginia , Devika Mahoney-Nair- Biocomplexity Institute & Initiative, University of Virginia , Neil Alexander Kattampallil- Biocomplexity Institute & Initiative, University of Virginia, Gary Anderson -National Center for Science and Engineering Statistics, National Science Foundation [[PRESENTATION](#)]

2:25pm-2:45pm"[Adopting prior distributions for the variance-covariance matrices to fully specify an area-level bivariate hierarchical Bayes three-fold model for proportions of adult competency](#)",Andreea Erciulescu- Westat [[PRESENTATION](#)]

2:45pm-3:05pm"[Tornado Property Loss Scale: Up to \\$8 Billion by 2025 Classification, Dependence, and Prediction of Tornado Events in the U.S.](#)" ,Thilini Mahanama- Texas Tech University [[PRESENTATION](#)]

3:10 - 4:20pm Lightning round 2

Chairperson: Brandon Kopp

3:10pm-3:20pm "[Easily Automating R Scripts on Windows](#)", James Cutler- U.S. Army [\[CODE\]](#) [\[PRESENTATION\]](#) [\[CODE2\]](#)

3:20pm-3:30pm "[Using Julia for Dissemination of Information About the General Election in Puerto Rico](#)", José Bayoán Santiago Calderón- Biocomplexity Institute & Initiative, University of Virginia [\[CODE\]](#) [\[PRESENTATION\]](#)

3:30pm-3:40pm "[Toward an Integrated Record Linkage Environment at the Census Bureau](#)", Yves Thibaudeau- US Census Bureau [\[PRESENTATION\]](#)

3:40pm-3:50pm "[When a Dashboard Won't Do: Automating Static Data Visualization of COVID-19 Data in Python](#)", Alexander Preiss- RTI International [\[PRESENTATION\]](#)

3:50pm-4:00pm "[Work Stoppages Web Scrape Project](#)", Drake Gibson- Bureau of Labor Statistics, David Oh-Bureau of Labor Statistics [\[PRESENTATION\]](#)

4:00pm-4:10pm "[Automatic Production of Large Spatial Price Rasters with Python](#)", Kevin Hunt-USDA NASS

4:10pm-4:20pm "[Using Deep Learning to Classify Open Text Field Comments in a Panel Study](#)", Kristin Chen-Westat [\[PRESENTATION\]](#)

4:25 -5:50pm Session 3 regular presentations

Theme: Topics in DevOps and Machine Learning

Chairperson: Wendy Martinez

4:25pm-4:45pm "[Data Catalog with Machine-Learning based engines for Statistical Programming](#)", Pragyansmita Nayak- Hitachi Vantara Federal [\[PRESENTATION\]](#)

4:45pm-5:05pm "[Automated Revenue Prediction Modeling](#)", Thom Miano- RTI International [\[PRESENTATION\]](#)

5:05pm-5:25pm "[Adaptive Computational Reproducibility in a Shifting R Package Landscape](#)", Kiegan Rice- NORC at the University of Chicago ,Dr. Heike Hofmann, Iowa State University [\[PRESENTATION\]](#)

5:25pm-5:45pm "[Deploying R Models to Implement REST Production Endpoints](#)", Frank Font- FINRA, Yan Cheng-FINRA, David Llanos-FINRA [\[PRESENTATION\]](#)

5:50pm - 6:00pm Closing and Knowledge Harvesting

Facilitator: Mike Jadoo