



CONFERENCE

GOVERNMENT & PUBLIC SECTOR

2020

WHERE R ENTHUSIASTS AND DATA SCIENTISTS
GATHER TO EXPLORE, SHARE AND INSPIRE IDEAS

#rstatsdc

Presented by  **landeranalytics**





Originating in New York City with expansions in Washington, DC, and Dublin, Ireland, the R Conference gathers elite data scientists and data professionals from across the world, who come together to explore, share, and inspire ideas, and to promote the growth of open source ideals.

The **R Conference | Government & Public Sector** virtual gathering is the first industry-centric event in the six-year history of the **R Conference Series**.

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A special thanks to our Platinum Sponsors, [RStudio](#) & [Deloitte](#)

SPEAKER ABSTRACTS

Dr. Gwynn Sturdevant	Michael Jadoo	Dr. David Meza	Maj. Maxine Drake
Jared P. Lander	Dan Chen	Col. Alfredo Corbett	Dr. Andrew Gelman
Marck Vaisman	Dr. Wendy Martinez	Dr. Will Doane	Selina Carter
Rose Martinez & Brooke Frye	Dr. Simina Boca	Refael Lav	Alex Gold
Imane El Idrissi & Dr. Anna Mantsoki	Dr. Graciela Chichilnisky	Dr. Tyler Morgan-Wall	Dr. Kimberly F. Sellers
Tommy Jones	Yvan Gauthier	Dr. Abhijit Dasgupta	Mo Johnson-León

8:00 a.m. - 8:50 a.m.
(Eastern Standard Time)

Virtual Breakfast & Registration 

8:50 a.m. - 9:00 a.m.

Opening Remarks

Jared P. Lander, Lander Analytics [@jaredlander](#)

9:00 a.m. - 9:20 a.m.

FastR Code: Vectorizing Computations in R

Dr. Gwynn Sturdevant, Harvard Business School
[@nzgwynn](#)

9:25 a.m. - 9:45 a.m.

Creating Tornqvist Index in R for Production

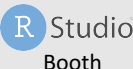
Michael Jadoo, Bureau of Labor Statistics
[@MikeJadoo](#)

9:50 a.m. - 10:10 a.m.

Developing a Knowledge Graph of your Knowledge, Skills, Abilities, Tasks and Training (KSATT)

Dr. David Meza, NASA [@davidmeza1](#)

10:10 a.m. - 10:40 a.m.

Break & Networking |  Open 10 a.m. - 1 p.m.

10:40 a.m. - 11:00 a.m.

Modeling COVID-19 on a DoD Network

Maj. Maxine Drake, U.S. Army [@maxinedrake](#)

11:05 a.m. - 11:25 a.m.

Taking R from Hours to Seconds

Jared P. Lander, Lander Analytics [@jaredlander](#)

11:30 a.m. - 11:50 a.m.

Learning Tidy Evaluation by Reimplementing dplyr

Dan Chen, Lander Analytics [@chendaniely](#)

11:50 a.m. - 1:00 p.m.

Lunch & Networking  MASTER CLASS

1:00 p.m. - 1:20 p.m.

Air Combat Command Enterprise Data Improvements

Col. Alfredo Corbett, U.S. Air Force [@usairforce](#)

1:25 p.m. - 2:05 p.m.

Election Forecasting: How We Succeeded Brilliantly, Failed Miserably, or Landed Somewhere in Between

Dr. Andrew Gelman, Columbia University
[@StatModeling](#)

2:05 p.m. - 2:35 p.m.

Break & Networking |  **Deloitte** Booth Recruiter Q&A

2:35 p.m. - 2:55 p.m.

Processing LIDAR images for Forecast Preservation

Marck Vaisman, Microsoft [@wahalulu](#)

3:00 p.m. - 3.20 p.m.

The Rocky Road to Using R at a U.S. Government Agency

Dr. Wendy Martinez, Bureau of Labor Statistics
[@BLS_gov](#)

3:25 p.m. - 3:45 p.m.

Building a Data Analytics Team at a Federally Funded Research and Development Center

Dr. Will Doane, Institute for Defense Analyses
Science & Technology Policy [@IDA_org](#)

3:45 p.m. - 4:15 p.m.

Break & Meet the Speaker, Dan Chen



4:15 p.m. - 4:35 p.m.

Predicting Project Delays at the Inter-American Development Bank Using R

Selina Carter, Inter-American Development Bank
[@selina_carter](#)

4:40 p.m. - 5:00 p.m.

Using Data to Improve the Lives of New Yorkers

Rose Martinez & Brook Frye,
NY City Council Data Team [@NYCCouncilData](#)

5:00 p.m. - 5:10 p.m.

Closing Remarks

5:20 p.m. - 5.45 p.m.

Post Conference Panel: **Data for Good**

HAPPY HOUR!

Join us for happy hour at the conclusion of Day 1 of the conference!

9:00 a.m. - 9:50 a.m.
(Eastern Standard Time)

Virtual Breakfast & Registration 

9:50 a.m. - 10:00 a.m.

Opening Remarks

Jared P. Lander, Lander Analytics [@jaredlander](#)

10:00 a.m. - 10:20 a.m.

R and the Study of Rare Diseases: Using Government Databases and Molecular Datasets to Set Research Priorities

Dr. Simina Boca, Innovation Center for Biomedical Informatics at Georgetown Univ.
[@siminaboca](#)

10:25 a.m. - 10:45 a.m.

Deployment of a Recommendation System Built in R at Scale with Docker on Serverless AWS Infrastructure

Refael Lav, Deloitte [@refaellav](#)

10:45 a.m. - 11:15 a.m.

Break & Meet the Speaker, Refael Lav 

11:15 a.m. - 11:35 a.m.

Easier, Better, Faster, Stronger Data Science with R Packages

Alex Gold, RStudio [@alexkgold](#)

11:40 a.m. - Noon

FIND SARS-CoV-2 Test Tracker - Ensuring Access to Transparent Accessible Testing Data Amidst a Pandemic

Imane El Idrissi & Dr. Anna Mantsoki, Foundation for Innovative New Diagnostics
[@FINDdx](#) & [@amantsok](#)


12:05 p.m. - 12:25 p.m.

Financial Innovation to Reverse Climate Change

Dr. Graciela Chichilnisky, Global Thermostat
[@chichilnisky](#)

12:25 p.m. - 1:35 p.m.

Break & Meet the Speaker, Alex Gold

 Studio
Booth
(Open 1-4 p.m.)

1:35 p.m. - 1:55 p.m.

Rayshader: Bringing Spatial Data to a New Dimension

Dr. Tyler Morgan-Wall, Institute for Defense Analyses [@tylermorganwall](#)

2:00 p.m. - 2:20 p.m.

Analyzing Count Data Expressing Data Dispersion

Dr. Kimberly F. Sellers, The U.S. Census Bureau
[@KimFlaggSellers](#)

2:25 p.m. - 2:45 p.m.

Exploring Diagnostic Test Accuracy with Plotly Dash

Tommy Jones, In-Q-Tel [@thos_jones](#)

2:45 p.m. - 3:15 p.m.

Break & Networking | **Deloitte** Recruiter Q&A
Booth

3:15 p.m. - 3:35 p.m.

Using R for Advanced Analytics in the Department of National Defense

Yvan Gauthier, Department of National Defense
[@ygauthie](#)

3:40 p.m. - 4:00 p.m.

Accessing and Analyzing Health Data from Government and Inter-Governmental Sources

Dr. Abhijit Dasgupta, Zansors [@webbedfeet](#)

4:05 p.m. - 4:25 p.m.

Launching a Pilot Program for Partnering with Cities' Vision Zero Initiatives

Mo Johnson-León, Insight Lane
[@moridesamoped](#)

4:25 p.m. - 4:35 p.m.

Closing Remarks

MASTER CLASS WITH

MOUNT GAY
Barbados Rum **1703**
EST**HAPPY HOUR!**

On Friday after the conference, Mount Gay will lead our community happy hour for a second master class, taking us through a tasting and shake up a couple of cocktails with Mount Gay Black Barrel. Join the fun by getting your own bottle with a \$5 discount from [Drizly](#) using code "MOUNTGAY"

*All times are EST



The backbone of the R language is its community of users, contributors and supporters. The open source ethos of this community propels the language forward with tens of thousands of add-on packages and a helpful, welcoming environment. All around the world, R users hold meetups where knowledge is shared and relationships are formed. This conference grew out of the New York Open Statistical Programming Meetup (also known as the New York R Meetup), the largest in the world, with almost 12,000 members. Topics from the meetup include data science, visualization, machine learning, deep learning and so much more. You can browse 11 years of presentations at nyhackr.org.

The **R Conferences** held in **New York**, **Washington D.C.**, and, soon, **Dublin**, were created to foster the local R communities and serve as fun gathering places where people can learn from their peers in an inviting setting. Because we cannot gather in person this year, we are meeting on a virtual platform designed to stream live talks and encourage great personal interactions, even remotely.

Thank you for joining us for the first **R|Gov** Conference!

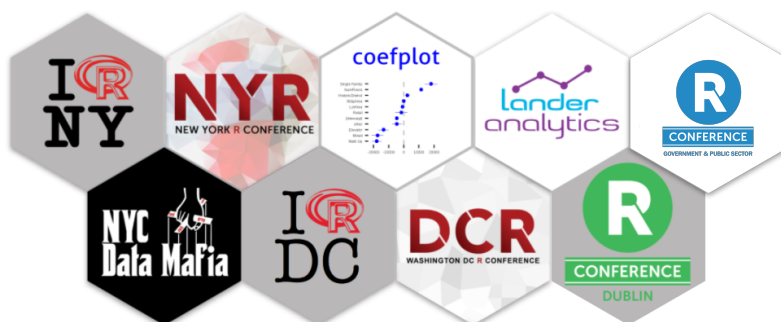
Jared P. Lander
Chief Data Scientist



Lander Analytics is a full-service data science consulting firm helping clients enhance their analytical capabilities to drive value from data.

Led by Chief Data Scientist Jared P. Lander, our team is comprised of data scientists, statisticians, visual designers, published authors, professors and keynote speakers specializing in applied statistics, computer science, machine learning and AI. We are united by our shared talent and passion for rigorous data science that we leverage to meet real-world challenges.

Lander Analytics is proud to host the **R Conference Series** and to continue building the data science community.



www.landeranalytics.com



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A Love Story

Learn how to develop, collaborate, manage
and share your data science work in R and
Python--all with RStudio.

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**Dr. Gwynn Sturdevant**Harvard Business School &
R-Ladies DC

9:00 a.m. – 9:20 a.m. EST

FasteR Code: Vectorizing Computations in R

Current innovations in coding have focused on ease of learning and reading. Unfortunately, a byproduct of these features is an increase in computation time for some coding. This talk will focus on vectorizing R code, or writing code that reduces computation times in some cases. | [@nzgwynn](https://twitter.com/nzgwynn)

**Michael Jadoo**

Bureau of Labor Statistics

9:25 a.m. – 9:45 a.m. EST

Creating Tornqvist Index in R for Production

Michael introduces a set of functions for the R programming language to aid users constructing economic indexes for tracking trends in prices and quantities. For productivity statistics, the Tornqvist index is a standard algorithm to aggregate over products or industries. It uses a changing-weight formula that aggregates variables at two points in time using a cost/expenditure share approach to aggregate price or quantity indexes. He also provides methods of aggregating measures by industry and by a group of assets for an industry sector, and a set of examples to illustrate their use for multifactor productivity statistics. | [@MikeJadoo](https://twitter.com/MikeJadoo)

**Dr. David Meza**

NASA

9:50 a.m. – 10:10 a.m. EST

Developing a Knowledge Graph of your Knowledge, Skills, Abilities, Tasks and Training (KSATT)

Understanding occupation elements and employee skillsets is essential to properly align your workforce, identify skill gaps, emerging skills and career/training paths. In this presentation we will explore using tidy models to augment a knowledge graph with inferred employee attributes. | [@davidmeza1](https://twitter.com/davidmeza1)

**Maj. Maxine Drake**

U.S. Army

10:40 a.m. – 11:00 a.m. EST

Modeling COVID-19 on a DoD Network

Maxine was on a team that developed the U.S. Army's COVID-19 projection model. She will share lessons she learned developing this model on the DoD network. First, she will discuss the packages on which her team relied, specifically furr, sharing a comparison of furr with other iteration methods. Second, she will discuss how the team leveraged functions to make their code robust and flexible. Lastly, she will share what priorities and management techniques the team followed that they believe made their model influential among Army senior leaders. | [@maxinedrake](https://twitter.com/maxinedrake)

**Jared P. Lander**

Lander Analytics

11:05 a.m. - 11:25 a.m. EST

Taking R From Hours to Seconds

When facing a problem on a few millions rows of data, Jared wrote code that took hours to run, if at all. To speed things up he first split the data into smaller pieces, then did so in a smarter way. Still needing faster results, he wrote a custom function with a smarter algorithm, then sped it up further using Rcpp. All this took the runtime from hours to seconds, making it a feasible solution. | [@jaredlander](#)

**Dan Chen**Virginia Tech &
Lander Analytics

11:30 a.m. – 11:50 a.m. EST

Learning Tidy Evaluation by Reimplementing dplyr

The tidyverse has grown to be a widely used set of tools with `dplyr` as one of its earliest members. One can leverage people's familiarity with `dplyr` as the motivating example for going through the more complicated topics around tidy evaluation. By re-implementing the behaviors of some dplyr functions (e.g., select, filter, etc) one can see how `rlang`'s tools for quoting (e.g., `quo`, `enquo`) and unquoting (e.g. `!!` and `!!!`) play a role in writing tidyverse functions. The audience may have already heard of "passing the dots", but this talk will take off one of the training wheels to see how users can use the tools to create their own functions by replicating some of the behaviors of the ones that many folks know and are familiar with. | [@chendaniely](#)

**Col. Alfredo Corbett**

U.S. Air Force

1:00 p.m. – 1:20 p.m. EST

Air Combat Command Enterprise Data Improvements

Data is a warfighting asset, fundamental to how Air Combat Command (ACC) operates in and supports all five domains of warfare. With a rapidly growing data landscape, ACC is implementing major improvements to the way it manages, acquires, ingests, stores, processes, exploits, analyzes, and delivers data to its almost 100,000 operators. In coordination with the Department of Defense and the Department of the Air Force, ACC is pursuing six lines of effort to improve its data governance, data architecture, data standards, and data talent & culture.

**Dr. Andrew Gelman**

Columbia University

1:25 p.m. – 2:05 p.m. EST

Election Forecasting: How We Succeeded Brilliantly, Failed Miserably, or Landed Somewhere in Between

Several months before the election, Andrew and his team worked with The Economist magazine to build a presidential election forecasting model combining national polls, state polls, and political and economic fundamentals. This talk will go over how the forecast worked, the team struggles in evaluating and improving it, and more general challenges of communicating data-based forecasts. For background: <http://www.stat.columbia.edu/~gelman/research/published/jdm200907b.pdf>



BLACK BARREL OLD FASHIONED

1 ½ oz Mount Gay Black Barrel Rum

¼ oz simple syrup (1:1)

4 dashes Angostura bitters

Lemon or orange peel

Combine all the ingredients in a mixing glass with ice. Stir to combine and chill. Strain into a glass over a large ice cube.

Twist of lemon or orange peel as garnish.

MOUNT GAY
Barbados Rum
EST. 1703

Be Confident. Drink Responsibly.





Marck Vaisman
Microsoft

2:35 p.m. – 2:55 p.m. EST

Processing LIDAR images for Forest Preservation

This talk will showcase how the USDA Forest Service is using LIDAR data to support large-scale forest management operations, conservation, and landscape-level ecosystem restoration. Marck provides a quick introduction to LIDAR and its benefits and using the `lidR` package to process images, and how using cloud technologies accelerates the process. | [@wahalulu](https://twitter.com/wahalulu)



Dr. Wendy Martinez
Bureau of Labor Statistics

3:00 p.m. – 3:20 p.m. EST

The Rocky Road to Using R at a U.S. Government Agency

Wendy Martinez will describe some of her experiences (successes and failures) using the open-source statistical computing software R at several U.S. government agencies. By doing this, she hopes to inspire others and to pass along some of the lessons she has earned along the way. R is just one of the statistical computing tools available to us, and she believes data scientists and statisticians should have many computing tools ready to use. However, getting permission to use it in the U.S. federal government has been challenging. | [@wendyisthebest](https://twitter.com/wendyisthebest)



Dr. Wil Doane
Institute for Defense Analyses
Science & Technology Policy

3:25 p.m. – 3:45 p.m. EST

Building a Data Analytics Team at a Federally Funded Research and Development Center

Building a data analytics team in any context can be challenging, especially given the rapid pace of new tools and methods, the compute resources required, and the varied backgrounds of team members. Building a team within a federally funded research and development center poses additional constraints and opportunities. This talk will highlight some of the technical issues that arise which then translate into challenges for analytics teams as they collaborate to bring value to research sponsors. | [@IDA_org](https://twitter.com/IDA_org)

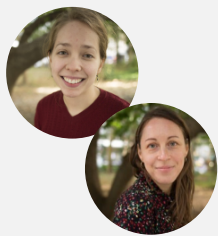


Selina Carter
Inter-American
Development Bank

4:15 p.m. – 4:35 p.m. EST

Predicting Project Delays at the Inter-American Development Bank Using R

How can we use R to predict project delays in international development? We'll walk through this applied example from the Inter-American Development Bank. Their pipeline of R scripts sources and cleans data from internal and external sources, then generates predictions using a decision tree (random forest) algorithm with confidence intervals (using the infinitesimal jackknife approach). Selina will display results in real time to end users in an interactive online viz. | [@selina_carter](https://twitter.com/selina_carter)



**Rose Martinez &
Brook Frye**

NY City Council Data Team

4:40 p.m. – 5:00 p.m. EST

Using Data to Improve the Lives of New Yorkers

Current innovations in coding have focused on ease of learning and reading. Unfortunately, a byproduct of these features is an increase in computation time for some coding. This talk will focus on vectorizing R code, or writing code that reduces computation times in some cases.

[@NYCCouncilData](#)

DAY 2

Friday, December 4th



10:00 a.m. – 10:20 a.m. EST

R and the Study of Rare Diseases: Using Government Databases and Molecular Datasets to Set Research Priorities

Simina considers the specific example of Duchenne Muscular Dystrophy (DMD), a devastating X-linked disease affecting around 1 in 5,000 newborn males that leads to muscle wasting, loss of ambulation and eventual death between the late teens and early twenties or thirties. She presents two vignettes related to the use of R in understanding DMD and setting research priorities in this clinical space. | [@siminaboca](#)



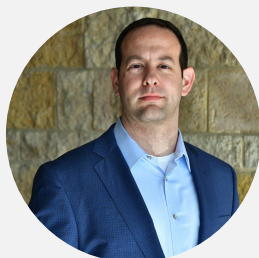
Dr. Simina Boca

Georgetown University

10:25 a.m. – 10:45 a.m. EST

Deployment of a Recommendation System Built in R at Scale with Docker on Serverless AWS Infrastructure

Imagine that your analysis and model are improving with each additional user using your system! Enterprise Recommendation engines are powerful analytical techniques that benefit each user more while getting information from their interaction to benefit the next user. This presentation will cover the creation of a recommendation engine using R using individuals' data and site behavior. Once created, showcase the two methodologies used – On-prem and how we used docker, Plumber, and AWS to scale the infrastructure while allowing information to enhance the model. All of this to service a production-level website for resources with smarter recommendations. | [@refaellav](#)



Refael Lav

Deloitte

11:15 a.m. – 11:35 a.m. EST

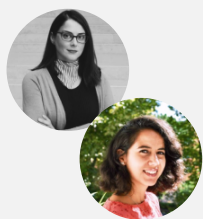
Easier, Better, Faster, Stronger Data Science with R Packages

For #rstats enthusiasts working in or with the public sector, it can be hard to promote the spread of R across your organization. Based on his experience working at think tanks, in federal consulting, and with a wide variety of organizations at RStudio, Alex will share patterns for treating an R package as a tool to promote better data science and more use of R. Daft Punk references will be plentiful. | [@alexkgold](#)



Alex Gold

RStudio



**Imane El Idrissi &
Dr. Anna Mantsoki**

Foundation for Innovative
New Diagnostics

11:40 a.m. – Noon EST

FIND SARS-CoV-2 Test Tracker - Ensuring Access to Transparent Accessible Testing Data Amidst a Pandemic

When the COVID-19 pandemic began, the Foundation for Innovative New Diagnostics (FIND) developed an interactive data platform to build a global picture on testing coverage. Imane and Anna will showcase how their team in Geneva, Switzerland built a comprehensive dataset on testing coverage across 179 countries, using automatic data mining tools (Selenium, R, regular expressions and GitHub actions), minimizing the needs for manual intervention and maintenance. They will also preview their user-friendly Shiny application (SARS-CoV-2 Test tracker) which allows users to visualize and compare the number of tests, cases, deaths and of positivity rate across countries and inspect changes over time. | [@FINDdx](#) & [@amantsok](#)

12:05 p.m. – 12:25 p.m. EST

Financial Innovation to Reverse Climate Change

How can financial instruments resolve climate change? Indeed, an interesting question. Here, Dr. Chichilnisky can show how this can be accomplished quickly and effectively by using existing capital markets and benefiting high- and, especially, low-income groups. The process Dr. Chichilnisky proposes is simple and can lead to a transformation of our capitalistic economy in the direction of human survival. Furthermore, it is realistic and is profitable along the way, supporting the transition. | [@chichilnisky](#)



Dr. Graciela Chichilnisky

Global Thermostat

1:35 p.m. – 1:55 p.m. EST

Rayshader: Bringing Spatial Data to a New Dimension

Data visualizations are no longer afterthoughts destined for the supplementary material section: Learning how to create beautiful data visualizations is a key skill to influence decision makers and engage the public with your research and results. In particular, 3D visualizations are a powerful tool to attract attention to your projects and draw people into your research, and R has become one of the best language ecosystems for reproducibly generating high quality 3D visualizations. In this talk, Tyler will show how you can use the rayshader package along with several other tools to generate stunning 3D figures, entirely in R. He will also demonstrate how you can combine your data with free and open spatial datasets to create these figures in only a few lines of code, directly from the source data. | [@tylormorganwall](#)



Dr. Tyler Morgan-Wall

Institute for
Defense Analyses

2:00 p.m. – 2:20 p.m. EST

Analyzing Count Data Expressing Data Dispersion

It is natural to consider a Poisson model to analyze count data, however such approaches maintain a constraining underlying equi-dispersion assumption (i.e. that the (conditional, when applicable) mean and variance equal); this assumption can lead to spurious results and inferences. Instead, much work has been conducted developing flexible alternative methods stemming from the Conway-Maxwell-Poisson (CMP) distribution -- a two parameter distribution for count data that contains the Poisson model (among others) as a special case. To illustrate the impact of such contributions, this talk focuses on CMP regression models and related R packages available to perform such analyses. | [@KimFlaggSellers](#)



Dr. Kimberly F. Sellers

The U.S. Census Bureau

**Tommy Jones**

In-Q-Tel

2:25 p.m. – 2:45 p.m. EST

Exploring Diagnostic Test Accuracy with Plotly Dash

Epidemics — as we have all come to see first-hand — are full of uncertainty. Diagnostic test results are no exception. Some tests are more accurate than others due to specific characteristics of the test, and in some cases it may be important to consider the trade-offs of various tests before deploying diagnostics to a population. Additionally, the accuracy of any test depends, in part, on estimates about the prevalence of infection, i.e. what percentage of people in the population actually have the disease. While knowing the true prevalence of infection is extremely difficult, statistical strategies can inform helpful estimates. It is important for decision-makers to understand these strategies and their limitations. | [@thos_jones](#)

**Yvan Gauthier**Department of
National Defense

3:15 p.m. – 3:35 p.m. EST

Using R for Advanced Analytics in the Department of National Defense

Yvan is a senior defence scientist with Defence Research & Development Canada (DRDC). Since 2017, he leads a data science team supporting the Chief Data Officer of the Department of National Defence (DND). He will present how his team has leveraged the R ecosystem to deliver advanced analytics in support of different DND initiatives, such as COVID-19 response planning, financial forecasting, survey analysis, and predictive maintenance modeling. | [@ygauthie](#)

**Dr. Abhijit Dasgupta**

Zansors

3:40 p.m. – 4:00 p.m. EST

Accessing and Analyzing Health Data from Government and Inter-Governmental Sources

Data on the health and well-being of populations is increasingly available through open data initiatives at various government and inter-government agencies, including WHO, the World Bank, and different national agencies. This real world data is accessible to anyone to understand trends in disease prevalence and effects of policy change. This year, the power of open data has been seen in tracking the patterns of incidence and death in the COVID-19 pandemic. In this talk, Abhijit will describe different ways in which the world's data repositories can be accessed using generic and specialized packages in R to enable visualization and analyses in the R ecosystem. | [@webbedfeet](#)

**Mo Johnson-León**

Insight Lane

4:05 p.m. – 4:25 p.m. EST

Launching a Pilot Program for Partnering with Cities' Vision Zero Initiatives

Insight Lane is an open-source platform that assesses and visualizes crash risk across road networks. Started by a group of volunteers in 2017, its main goal is to inform and benefit residents and city governments for the purpose of improving car, bike and pedestrian infrastructure, using available data. This talk will focus on the use of data and participatory democracy to inform planning of city streets, to achieve Vision Zero goals by reducing crashes, and to facilitate collaboration between cities, advocates and the general public. | [@moridesamoped](#)

VISIT THE DELOITTE VIRTUAL BOOTH!

COVID Tool Presentation

Friday 12:35 - 1:00 PM EST

Deloitte Recruiter Q&A

Thursday at 2:05-2:35 PM EST &

Friday at 2:45-3:15 PM EST

Event	Time (ET)	Description
Thursday, December 3		
Open Booth / Demos (30 minutes)	10:10am - 10:40am	An informal discussion with several Deloitte practitioners. Audience members will also have the opportunity to discuss several tools used by Deloitte practitioners.
Deloitte Q&A (70 minutes)	11:50am - 1:00pm	An informal discussion with several Deloitte practitioners.
Deloitte recruiter Q&A	2:05pm - 2:35 pm	A meet and greet with a Deloitte recruiter and Deloitte practitioners to talk about all things Deloitte.
Open Booth / Demos (30 minutes)	3:45pm - 4:15pm	An informal discussion with several Deloitte practitioners. Audience members will also have the opportunity to discuss several tools used by Deloitte practitioners.
Friday, December 4		
Deloitte Q&A (50 minutes)	9:00am - 9:50am	An informal discussion with several Deloitte practitioners. Audience members will also have the opportunity to discuss several tools used by Deloitte practitioners.
Rafi's talk (20 min)	10:25am - 10:45 am	Deployment of a Recommendation System Built in R at Scale with Docker on Serverless AWS Infrastructure Rafael Lav, Deloitte
Meet the Speaker (30 minutes)	10:45am - 11:15am	A meet and greet with Rafael Lav (from the previous session, "Deployment of a Recommendation System Built in R at Scale with Docker on Serverless AWS Infrastructure").
Deloitte Breakout Session (70 min) 12:25 - 12:35PM (10m lunch break) 12:35 - 1:00PM (COVID Presentation) 1:00 - 1:35PM (General Q&A)	12:25pm - 1:35pm	Deloitte will also present a COVID-19 simulation tool: <i>"Developing an agent-based model to predict and understand the spread of COVID-19 under various potential scenarios (e.g. vaccine compliance, etc.) and creating a user-friendly interface via R Shiny where clients can interact with model insights, tailor visualizations and integrate strategic objectives (e.g. supply chain, etc.) to empower executive decisions."</i> Audience members will also have the opportunity to Questions & Answer session afterward.
Deloitte recruiter Q&A	2:45pm - 3:15pm	A meet and greet with a Deloitte recruiter and Deloitte practitioners to talk about all things Deloitte.



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2 oz Mount Gay Black Barrel
1 oz Fresh Squeezed Lime Juice
1 ounce simple syrup
(one part sugar, one part water)

Pour all ingredients into shaker with ice cubes.
Shake well. Strain in chilled cocktail glass.

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