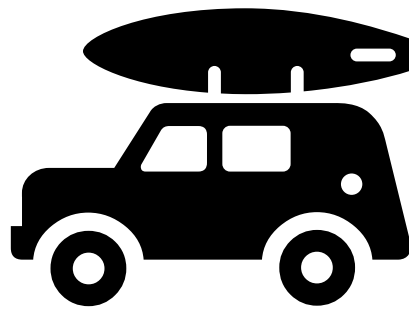


Presented by



INVESTIGATIVE  
REPORTERS & EDITORS



# 2019 CAR Conference

Newport Beach, California • March 7-10, 2019

Newport Beach Marriott Hotel  
[900 Newport Center Dr. Newport Beach, CA 92660](#)

**A special thanks to our conference sponsors:** [USC Annenberg School of Journalism](#), [Donald W. Reynolds Journalism Institute](#), [Google News Initiative](#), [John S. Knight Journalism Fellowships at Stanford](#), [Knight Foundation](#), [Lumina Foundation](#), [McClatchy](#), [Missouri School of Journalism](#), [Reporters Committee for Freedom of the Press](#), [RStudio](#)

**Conference website:** Read our code of conduct, check out special events and more at [ire.org/conferences/nicar-2019](http://ire.org/conferences/nicar-2019)

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This schedule was updated on March 5, 2019, but it could change. For the most current information, download the Guidebook app ([guidebook.com](http://guidebook.com)) and search "2019 CAR Conference."

This PDF is available online: [tinyurl.com/nicar-2019-pdf](http://tinyurl.com/nicar-2019-pdf). Get this schedule as a CSV: [tinyurl.com/nicar-2019-csv](http://tinyurl.com/nicar-2019-csv).

# Wednesday, March 6

Time	Session	Room	Category
3 – 6 p.m.	<a href="#">CAR Conference registration (Wednesday)</a>	Salon EF	General
3 – 6 p.m.	<a href="#">CAR Conference sales (Wednesday)</a>	Salon EF	General

# Thursday, March 7

Time	Session	Room	Category
7:30 a.m. – 6 p.m.	<a href="#">CAR Conference registration (Thursday)</a>	Salon EF	General
7:30 a.m. – 6 p.m.	<a href="#">CAR Conference sales (Thursday)</a>	Salon EF	General
7:30 – 8:15 a.m.	<a href="#">International meet &amp; greet **invitation-only event</a>	Baycliff	General
8:30 – 8:50 a.m.	<a href="#">Welcome first-timers</a>	Salon C	Special
9 a.m. – 12:30 p.m.	<a href="#">Master class: Leading the data team **pre-registered attendees only</a>	Crystal Cove - conference level	Master Class
9 a.m. – 12:30 p.m.	<a href="#">PyCAR *pre-registered attendees only</a>	Salon 5	Hands-on
9 – 10 a.m.	<a href="#">An introduction to data visualization with Tableau (Hosted by Tableau)</a>	Coral Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Archiving digital journalism</a>	Salon A&B	Panel
9 – 10 a.m.	<a href="#">Excel 1: Getting started with spreadsheets</a>	Salon 3	Hands-on
9 – 10 a.m.	<a href="#">Finding the story: Open policing data</a>	Sapphire Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">How and why to make your data analysis reproducible</a>	Cardiff	Panel
9 – 10 a.m.	<a href="#">PDF 1: Using free online tools</a>	Mariner Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Python: Machine learning and natural language processing</a>	Copper Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Regular expressions for the rest of us</a>	Diamond Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Sports data viz with R</a>	Emerald Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">SQL 1: Exploring data</a>	Salon 4	Hands-on
9 – 10 a.m.	<a href="#">What the hell is D3? And other questions you're afraid to ask</a>	Salon 1&2	Panel
9 – 10 a.m.	<a href="#">Which coding language should I learn?</a>	Salon D	Panel
9 – 10 a.m.	<a href="#">Year in CAR: Local innovation</a>	Salon C	Panel
10:15 – 11:15 a.m.	<a href="#">Before you ever start your analysis</a>	Salon C	Panel
10:15 – 11:15 a.m.	<a href="#">Digging into education data: From preschool to college</a>	Cardiff	Panel

Time	Session	Room	Category
10:15 – 11:15 a.m.	<a href="#">Excel 2: Formulas &amp; sorting</a>	Salon 3	Hands-on
10:15 – 11:15 a.m.	<a href="#">Finding your data story: Visual analytics best practices using Tableau (Hosted by Tableau)</a>	Coral Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Geocoding and avoiding pitfalls</a>	Diamond Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Google Sheets: Scraping without coding</a>	Mariner Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Graph databases 1: Building a database</a>	Copper Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">How to teach yourself code</a>	Salon D	Panel
10:15 – 11:15 a.m.	<a href="#">PostgreSQL</a>	Sapphire Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Share your work: Publishing your data analysis with R</a>	Emerald Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">SQL 2: Grouping and summing data</a>	Salon 4	Hands-on
10:15 – 11:15 a.m.	<a href="#">The state of data reporting outside major cities</a>	Del Mar	Commons
10:15 – 11:15 a.m.	<a href="#">What's new in Excel Online for analysis and visualization</a>	Salon 1&2	Demo
10:15 – 11:15 a.m.	<a href="#">Which chart should I use, and why? Information design for the human brain!</a>	Salon A&B	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Avant garde data viz</a>	Salon A&B	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Calling bullshit: Data reasoning in a digital world</a>	Salon 1&2	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Data journalism educators resource swap</a>	Del Mar	Commons
11:30 a.m. – 12:30 p.m.	<a href="#">Excel 3: Filtering &amp; pivot tables</a>	Salon 3	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Excel for business &amp; economics</a>	Sapphire Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Finding the story: The state of immigration</a>	Diamond Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">From messy data to insightful story: Cleaning data using Tableau (Hosted by Tableau)</a>	Coral Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Graph databases 2: Finding stories in data</a>	Copper Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Making the leap from Excel to R</a>	Salon C	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Python 101: An overview for total beginners</a>	Salon D	Panel

Time	Session	Room	Category
11:30 a.m. – 12:30 p.m.	<a href="#">Self care for journalists: A practical guide</a>	Cardiff	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">SQL 3: Joining tables</a>	Salon 4	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Text mining in R with tidytext</a>	Emerald Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Using Datawrapper to quickly create charts and maps</a>	Mariner Cove - conference level	Hands-on
12:45 – 2 p.m.	<a href="#">Journalists of color in the newsroom meetup</a>	Cardiff	Commons
2:15 – 5:45 p.m.	<a href="#">First Observable notebook: Prototyping with polish **pre-registered attendees only</a>	Copper Cove - conference level	Hands-on
2:15 – 5:45 p.m.	<a href="#">Interviewing your data with SQL **pre-registered attendees only</a>	Salon 4	Hands-on
2:15 – 5:45 p.m.	<a href="#">Intro to R (Thursday) *pre-registered attendees only</a>	Salon 3	General
2:15 – 5:45 p.m.	<a href="#">Master class: Self-editing &amp; bulletproofing the data **pre-registered attendees only</a>	Crystal Cove - conference level	Master Class
2:15 – 3:15 p.m.	<a href="#">After a disaster: Long-term reporting on floods, fires and other emergencies</a>	Salon 1&2	Panel
2:15 – 3:15 p.m.	<a href="#">An introduction to data visualization with Tableau (repeat, hosted by Tableau)</a>	Coral Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">Become an instant expert</a>	Salon D	Demo
2:15 – 3:15 p.m.	<a href="#">Building your own database</a>	Mariner Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">Covering the 2020 Census</a>	Salon C	Panel
2:15 – 3:15 p.m.	<a href="#">Finding the story: Covering class and poverty at the local level</a>	Emerald Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">How it works: The internet (for journalists who want to scrape it)</a>	Salon A&B	Panel
2:15 – 3:15 p.m.	<a href="#">How it works: Version control for journalists (git/GitHub)</a>	Cardiff	Panel
2:15 – 3:15 p.m.	<a href="#">How to help your TV newsroom achieve a data journalism mindset</a>	Del Mar	Commons
2:15 – 3:15 p.m.	<a href="#">Python 1: The fundamentals</a>	Salon 5	Hands-on
2:15 – 3:15 p.m.	<a href="#">R 1: Intro to R and RStudio</a>	Sapphire Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">Stats in Excel</a>	Diamond Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Building a data library in your newsroom</a>	Cardiff	Panel
3:30 – 4:30 p.m.	<a href="#">Doxxing for good: Tracing your online footprint before hackers can</a>	Salon 1&2	Demo
3:30 – 4:30 p.m.	<a href="#">Excel: Using string functions to reformat data</a>	Diamond Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Finding your data story: Visual analytics best practices using Tableau (repeat, hosted by Tableau)</a>	Coral Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">How to make data a routine part of your beat</a>	Salon A&B	Panel

Time	Session	Room	Category
3:30 - 4:30 p.m.	<a href="#">Machine learning and investigative reporting</a>	Salon D	Panel
3:30 - 4:30 p.m.	<a href="#">Python 2: Intro to data analysis using pandas</a>	Salon 5	Hands-on
3:30 - 4:30 p.m.	<a href="#">R 2: Data analysis and plotting in R</a>	Sapphire Cove - conference level	Hands-on
3:30 - 4:30 p.m.	<a href="#">R: Intro stats in R</a>	Emerald Cove - conference level	Hands-on
3:30 - 4:30 p.m.	<a href="#">Students' roundtable</a>	Del Mar	Commons
3:30 - 4:30 p.m.	<a href="#">The IRE Principles (Code of Conduct): A conversation with the IRE Board of Directors</a>	Salon C	Panel
3:30 - 4:30 p.m.	<a href="#">Workbench: Reproducible data work without coding</a>	Mariner Cove - conference level	Hands-on
4:45 - 5:45 p.m.	<a href="#">Excel: Importing data</a>	Diamond Cove - conference level	Hands-on
4:45 - 5:45 p.m.	<a href="#">From messy data to insightful story: Cleaning data using Tableau (repeat, hosted by Tableau)</a>	Coral Cove - conference level	Hands-on
4:45 - 5:45 p.m.	<a href="#">GitHub for journalists</a>	Mariner Cove - conference level	Hands-on
4:45 - 5:45 p.m.	<a href="#">How it works: APIs</a>	Salon A&B	Panel
4:45 - 5:45 p.m.	<a href="#">How to impress the boss &amp; save democracy: Data stories you can turn in 30 days or less</a>	Salon D	Panel
4:45 - 5:45 p.m.	<a href="#">Intro to web development</a>	Emerald Cove - conference level	Hands-on
4:45 - 5:45 p.m.	<a href="#">Investigating nonprofits with data</a>	Salon 1&2	Demo
4:45 - 5:45 p.m.	<a href="#">NICAR-L improvement project</a>	Del Mar	Commons
4:45 - 5:45 p.m.	<a href="#">Preparing for the future of disinformation and deep fakes</a>	Cardiff	Panel
4:45 - 5:45 p.m.	<a href="#">Python 3: Data cleaning and visualization</a>	Salon 5	Hands-on
4:45 - 5:45 p.m.	<a href="#">R 3: Gathering and cleaning data in R</a>	Sapphire Cove - conference level	Hands-on
4:45 - 5:45 p.m.	<a href="#">Using data to report on racial inequality</a>	Salon C	Panel
6 - 7 p.m.	<a href="#">Welcome Reception and celebration of the 25th CAR Conference (Sponsored by Google News Initiative)</a>	Rose Garden	General

## Friday, March 8

Time	Session	Room	Category
7:30 - 8:45 a.m.	<a href="#">Mentoring Breakfast (Sponsored by Donald W. Reynolds Journalism Institute) **invitation-only event</a>	Baycliff	General
8 a.m. - 5 p.m.	<a href="#">CAR Conference registration (Friday)</a>	Salon EF	General
8 a.m. - 5 p.m.	<a href="#">CAR Conference sales (Friday)</a>	Salon EF	General
9 - 10 a.m.	<a href="#">Stats 1: An introduction using PSPP</a>	Sapphire Cove - conference level	Hands-on

Time	Session	Room	Category
9 a.m. – 5:45 p.m.	<a href="#">First Python notebook: Data analysis on deadline *pre-registered attendees only</a>	Coral Cove - conference level	Hands-on
9 a.m. – 5:45 p.m.	<a href="#">MapCamp: QGIS *pre-registered attendees only</a>	Emerald Cove - conference level	Hands-on
9 a.m. – 12:30 p.m.	<a href="#">Interviewing your data with SQL (cont'd Friday) **pre-registered attendees only</a>	Salon 4	General
9 a.m. – 12:30 p.m.	<a href="#">Master class: Telling the data story across platforms **pre-registered attendees only</a>	Crystal Cove - conference level	Master Class
9 a.m. – 12:30 p.m.	<a href="#">Mastering Google Sheets: Web scraping, running scripts and other tricks **pre-registered attendees only</a>	Mariner Cove - conference level	Hands-on
9 a.m. – 12:30 p.m.	<a href="#">PyCAR (cont'd-Friday) *pre-registered attendees only</a>	Salon 5	General
9 – 10 a.m.	<a href="#">Connecting the dots with health data: The Implant Files case</a>	Del Mar	Commons
9 – 10 a.m.	<a href="#">Cops, docs, and traffic stops: Criminal justice reporting through data</a>	Cardiff	Panel
9 – 10 a.m.	<a href="#">Excel: Advanced pivot tables</a>	Salon 3	Hands-on
9 – 10 a.m.	<a href="#">How it works: Artificial intelligence</a>	Salon C	Panel
9 – 10 a.m.	<a href="#">Intro to OpenRefine</a>	Salon 1&2	Demo
9 – 10 a.m.	<a href="#">JavaScript 1: Fundamentals and syntax</a>	Copper Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">R: Models for clustered and correlated data</a>	Diamond Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">The data sleuth's guide to the social web</a>	Salon A&B	Demo
9 – 10 a.m.	<a href="#">The election and politics data you're not using</a>	Salon D	Demo
10:15 – 11:15 a.m.	<a href="#">Advanced SQL: Working with dates, sub-queries and more</a>	Salon 3	Hands-on
10:15 – 11:15 a.m.	<a href="#">Creating inclusive, welcoming teams</a>	Salon A&B	Panel
10:15 – 11:15 a.m.	<a href="#">Favorite code snippets: A responsibly sourced, artisanal list from the Lonely Coder's Club</a>	Del Mar	Commons
10:15 – 11:15 a.m.	<a href="#">Finding the story: Data-driven disaster coverage</a>	Diamond Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">How to make your data stories shine for different audiences</a>	Salon 1&2	Panel
10:15 – 11:15 a.m.	<a href="#">Interactive visualization for news readers' beliefs: Why and how</a>	Cardiff	Panel
10:15 – 11:15 a.m.	<a href="#">JavaScript 2: Hello D3!</a>	Copper Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Seeing the story: How to write the data-driven investigation</a>	Salon C	Panel

Time	Session	Room	Category
10:15 – 11:15 a.m.	<a href="#">Stats 2: Linear regression using PSPP</a>	Sapphire Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">The latest digital tools</a>	Salon D	Demo
11:30 a.m. – 12:30 p.m.	<a href="#">Advanced OpenRefine: Intro to GREL</a>	Diamond Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Data blitz</a>	Salon A&B	Demo
11:30 a.m. – 12:30 p.m.	<a href="#">Finding hidden stories in hidden communities</a>	Salon C	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Google Sheets: Scraping without coding (repeat)</a>	Salon 3	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">JavaScript 3: Building a map in D3</a>	Copper Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Lessons learned from building a database with colleagues</a>	Salon 1&2	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Shooting straight: How to use gun data and documents effectively</a>	Cardiff	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Stats 3: Logistic regression using PSPP</a>	Sapphire Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Using public records laws to get data</a>	Salon D	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Women in journalism meetup</a>	Del Mar	Commons
12:45 – 1:45 p.m.	<a href="#">Media lawyers brown bag</a>	Cardiff	Brownbag
2:15 – 5:45 p.m.	<a href="#">Digging into data for stories: A crash course in Excel - *pre-registered attendees only</a>	Salon 4	Hands-on
2:15 – 5:45 p.m.	<a href="#">Intro to R (Friday) *pre-registered attendees only</a>	Salon 3	General
2:15 – 5:45 p.m.	<a href="#">Master class: Design thinking for journalists **pre-registered attendees only</a>	Crystal Cove - conference level	Master Class
2:15 – 3:15 p.m.	<a href="#">CAR throwback</a>	Salon C&D	Demo
2:15 – 3:15 p.m.	<a href="#">Covering immigration with data</a>	Salon A&B	Panel
2:15 – 3:15 p.m.	<a href="#">Finding the story: Using DNS search for investigative journalism</a>	Mariner Cove - conference level	Hands-on

Time	Session	Room	Category
2:15 – 3:15 p.m.	<a href="#">Freelancers' roundtable</a>	Del Mar	Commons
2:15 – 3:15 p.m.	<a href="#">Making graphics and maps with R</a>	Sapphire Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">MySQL</a>	Diamond Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">PDF 1: Using free online tools (repeat)</a>	Salon 5	Hands-on
2:15 – 3:15 p.m.	<a href="#">Python: Let's scrape a website</a>	Copper Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">This just in ... you can plan for breaking news</a>	Salon 1&2	Panel
2:15 – 3:15 p.m.	<a href="#">When the data talks (but the people won't)</a>	Cardiff	Panel
3:30 – 4:30 p.m.	<a href="#">25th CAR: What a ride it's been!</a>	Salon C&D	Panel
3:30 – 4:30 p.m.	<a href="#">Bring your investigative reporting to life using animation and illustrations</a>	Cardiff	Panel
3:30 – 4:30 p.m.	<a href="#">Data visualization and storytelling with Flourish</a>	Mariner Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Excel CARwash: Cleaning dirty data</a>	Diamond Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Free, easy data viz</a>	Salon A&B	Demo
3:30 – 4:30 p.m.	<a href="#">How to follow the dark money in politics</a>	Salon 1&2	Demo
3:30 – 4:30 p.m.	<a href="#">How to verify that emails are authentic with DKIM and ARC</a>	Copper Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Mapping with R</a>	Sapphire Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">PDF 2: Using OCR to extract data from PDFs</a>	Salon 5	Hands-on
3:30 – 4:30 p.m.	<a href="#">To manage or not: Choosing the right career path</a>	Del Mar	Commons
4:45 – 5:45 p.m.	<a href="#">ArcGIS Online: Connect the where and the why with interactive demographic maps</a>	Diamond Cove - conference level	Hands-on
4:45 – 5:45 p.m.	<a href="#">Building your own database (repeat)</a>	Mariner Cove - conference level	Hands-on
4:45 – 5:45 p.m.	<a href="#">Career roundtable</a>	Salon 1&2	Panel
4:45 – 5:45 p.m.	<a href="#">PDF 3: Batch pdf processing</a>	Salon 5	Hands-on
4:45 – 5:45 p.m.	<a href="#">Publish the data behind your stories with SQLite and Datasette</a>	Copper Cove - conference level	Hands-on



Time	Session	Room	Category
4:45 – 5:45 p.m.	<a href="#">R: Intro stats (repeat)</a>	Sapphire Cove - conference level	Hands-on
5 – 6:15 p.m.	<a href="#">Lightning Talks</a>	Grand Pacific A-D	General
6:30 – 7:30 p.m.	<a href="#">Philip Meyer Journalism Awards Reception (Co-sponsored by Reporters Committee for Freedom of the Press and IRE)</a>	Rose Garden & Pool	General
6:15 – 6:30 p.m.	<a href="#">Philip Meyer Award Presentation</a>	Grand Pacific A-D	General

## Saturday, March 9

Time	Session	Room	Category
8:30 a.m. – 6 p.m.	<a href="#">CAR Conference registration (Saturday)</a>	Salon EF	General
8:30 a.m. – 6 p.m.	<a href="#">CAR Conference sales (Saturday)</a>	Salon EF	General
9 a.m. – 5:45 p.m.	<a href="#">Exploring the tidyverse in R *pre-registered attendees only</a>	Sapphire Cove - conference level	Hands-on
9 a.m. – 5:45 p.m.	<a href="#">First graphics app: Node.js in the newsroom **pre-registered attendees only</a>	Coral Cove - conference level	General
9 a.m. – 12:30 p.m.	<a href="#">Master class: Mastering the interview **pre-registered attendees only</a>	Crystal Cove - conference level	Master Class
9 a.m. – 12:30 p.m.	<a href="#">Upping your Excel game *pre-registered attendees only</a>	Salon 3	Hands-on
9 a.m. – 12:30 p.m.	<a href="#">Write better Python code *pre-registered attendees only</a>	Mariner Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Analyzing birth and death data: The wonders of CDC WONDER</a>	Salon 1&2	Demo
9 – 10 a.m.	<a href="#">Building and telling a bulletproof data story</a>	Salon C	Panel
9 – 10 a.m.	<a href="#">Command line on Macs</a>	Salon 5	Hands-on
9 – 10 a.m.	<a href="#">D3 in a reactive world</a>	Copper Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">How to make your campaign finance dataset useful year-round</a>	Cardiff	Panel
9 – 10 a.m.	<a href="#">Introducing The Public Accountability search project</a>	Del Mar	Commons
9 – 10 a.m.	<a href="#">Management: Leading the data reporting team</a>	Salon A&B	Panel
9 – 10 a.m.	<a href="#">Python: Let's scrape a website (repeat)</a>	Diamond Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">QGIS 1: Mapmaking for beginners</a>	Emerald Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Research on the beach: Deep diving</a>	Salon D	Demo
9 – 10 a.m.	<a href="#">SQL 1: Exploring data (repeat)</a>	Salon 4	Hands-on
10:15 – 11:15 a.m.	<a href="#">A conversation with James B. Steele: Insights and lessons for data journalists</a>	Salon A&B	Panel
10:15 – 11:15 a.m.	<a href="#">America's dirtiest jobs? Meet America's dirtiest data</a>	Salon C	Demo
10:15 – 11:15 a.m.	<a href="#">Being scrappy: Doing data journalism as a team of one</a>	Del Mar	Commons
10:15 – 11:15 a.m.	<a href="#">Full-stack React</a>	Copper Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Hitchhiker's guide to APIs</a>	Diamond Cove - conference level	Hands-on

Time	Session	Room	Category
10:15 – 11:15 a.m.	<a href="#">Holding algorithms accountable</a>	Salon D	Panel
10:15 – 11:15 a.m.	<a href="#">Introduction to digital security</a>	Salon 1&2	Demo
10:15 – 11:15 a.m.	<a href="#">Introduction to VisiData</a>	Salon 5	Hands-on
10:15 – 11:15 a.m.	<a href="#">QGIS 2: Filtering and analyzing geographic data to make maps</a>	Emerald Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">SQL 2: Grouping and summing data (repeat)</a>	Salon 4	Hands-on
10:15 – 11:15 a.m.	<a href="#">Three open-source workflow tools that your newsroom could use today</a>	Cardiff	Demo
11:30 a.m. – 12:30 p.m.	<a href="#">csvkit</a>	Salon 5	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Easy machine learning for data journalists</a>	Salon 1&2	Demo
11:30 a.m. – 12:30 p.m.	<a href="#">How to turn data into human stories</a>	Salon D	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">Inside the sausage factory: An inside look at government data making</a>	Cardiff	General
11:30 a.m. – 12:30 p.m.	<a href="#">Keeping your career lit while raising humans</a>	Del Mar	Commons
11:30 a.m. – 12:30 p.m.	<a href="#">No code required: Create compelling interactive data visualizations with Microsoft Power BI</a>	Emerald Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Observable notebooks: Your interactive data journal</a>	Salon C	Demo
11:30 a.m. – 12:30 p.m.	<a href="#">Spatial queries in PostGIS</a>	Copper Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">SQL CARwash: Cleaning dirty data</a>	Salon 4	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">The data-driven escape room</a>	Diamond Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">The debt trap</a>	Salon A&B	Panel
2:15 – 5:45 p.m.	<a href="#">Digging into data for stories (cont'd-Saturday) *pre-registered attendees only</a>	Salon 4	Hands-on
2:15 – 5:45 p.m.	<a href="#">Interactive data viz with D3 **pre-registered attendees only</a>	Salon 5	General
2:15 – 5:45 p.m.	<a href="#">Master class: Writing the data-driven narrative **pre-registered attendees only</a>	Crystal Cove - conference level	Master Class
2:15 – 5:45 p.m.	<a href="#">Web scraping with Python (Saturday) *pre-registered attendees only</a>	Salon 3	General
2:15 – 3:15 p.m.	<a href="#">50 databases to request right now</a>	Salon D	Panel
2:15 – 3:15 p.m.	<a href="#">College sports finances: Where the money comes from and where the money goes</a>	Cardiff	Demo
2:15 – 3:15 p.m.	<a href="#">Excel 1: Getting started with spreadsheets (repeat)</a>	Emerald Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">Finding needles in haystacks with fuzzy matching</a>	Copper Cove - conference level	Hands-on

Time	Session	Room	Category
2:15 – 3:15 p.m.	<a href="#">How data can inform one of the hottest topics across the country: Housing</a>	Salon A&B	Panel
2:15 – 3:15 p.m.	<a href="#">How it works: Blockchain</a>	Salon C	Panel
2:15 – 3:15 p.m.	<a href="#">One map, no code: The power of Mapbox Studio</a>	Mariner Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">R 1: Intro to R and RStudio (repeat)</a>	Diamond Cove - conference level	Hands-on
2:15 – 3:15 p.m.	<a href="#">Rewriting the code of ethics: New standards for digital journalism</a>	Del Mar	General
2:15 – 3:15 p.m.	<a href="#">Under pressure: Real life in real time with breaking news</a>	Salon 1&2	Demo
3:30 – 4:30 p.m.	<a href="#">(Generally) painless collaboration with the greater newsroom</a>	Salon A&B	Panel
3:30 – 4:30 p.m.	<a href="#">Behind the story: Case Cleared</a>	Salon D	Panel
3:30 – 4:30 p.m.	<a href="#">Cyberwar: Investigating hacking by advanced actors</a>	Salon 1&2	Panel
3:30 – 4:30 p.m.	<a href="#">Excel 2: Formulas &amp; sorting (repeat)</a>	Emerald Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Introducing Slidetrack: Visual annotation for your podcast</a>	Mariner Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Learn from my fail: Data always sucks edition</a>	Del Mar	Commons
3:30 – 4:30 p.m.	<a href="#">Python: Data visualization with Altair</a>	Copper Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">R 2: Data analysis and plotting in R (repeat)</a>	Diamond Cove - conference level	Hands-on
3:30 – 4:30 p.m.	<a href="#">Surveys save the day: An old tool emerges as a cutting edge</a>	Cardiff	Panel
3:30 – 4:30 p.m.	<a href="#">Tiplines today: Techniques for secure source communications</a>	Salon C	Panel
4:45 – 5:45 p.m.	<a href="#">Always appeal: Fighting public records battles</a>	Salon D	Panel
4:45 – 5:45 p.m.	<a href="#">Creative ways to teach difficult concepts</a>	Del Mar	Commons
4:45 – 5:45 p.m.	<a href="#">Excel 3: Filtering &amp; pivot tables (repeat)</a>	Emerald Cove - conference level	Hands-on
4:45 – 5:45 p.m.	<a href="#">GitHub for journalists (repeat)</a>	Mariner Cove - conference level	Hands-on
4:45 – 5:45 p.m.	<a href="#">Healthcare: Diagnose and treat a data dearth</a>	Salon A&B	Panel
4:45 – 5:45 p.m.	<a href="#">How to collaborate across multiple newsrooms to solve big problems</a>	Cardiff	Panel
4:45 – 5:45 p.m.	<a href="#">Life after FactFinder</a>	Salon 1&2	Demo
4:45 – 5:45 p.m.	<a href="#">Python: Writing tests for your code</a>	Copper Cove - conference level	Hands-on
4:45 – 5:45 p.m.	<a href="#">R 3: Gathering and cleaning data in R (repeat)</a>	Diamond Cove - conference level	Hands-on
4:45 – 5:45 p.m.	<a href="#">The next 25 years of CAR</a>	Salon C	Panel

# Sunday, March 10

Time	Session	Room	Category
9 a.m. – 12:30 p.m.	<a href="#">Digging into data for stories (cont'd-Sunday) *pre-registered attendees only</a>	Salon 4	General
9 a.m. – 12:30 p.m.	<a href="#">OpenElections hackathon</a>	Salon D	Demo
9 a.m. – 12:30 p.m.	<a href="#">Web scraping with Python (Sunday) *pre-registered attendees only</a>	Coral Cove - conference level	General
9 – 10:30 a.m.	<a href="#">CAR Conference sales (Sunday)</a>	Salon EF	General
9 – 10 a.m.	<a href="#">Early career straight-talk: A Q&amp;A on all things jobs and internships</a>	Salon A&B	Panel
9 – 10 a.m.	<a href="#">Finding needles in haystacks with fuzzy matching (repeat)</a>	Copper Cove - conference level	Hands-on
9 – 10 a.m.	<a href="#">Install party</a>	Emerald Cove - conference level	Demo
9 – 10 a.m.	<a href="#">Python 1: The fundamentals (repeat)</a>	Salon 5	Hands-on
9 – 10 a.m.	<a href="#">You just survived NICAR19! Now what?</a>	Salon C	General
10:15 – 11:15 a.m.	<a href="#">Adding a text editor to your CAR toolkit</a>	Salon A&B	Demo
10:15 – 11:15 a.m.	<a href="#">JavaScript 1: Fundamentals and syntax (repeat)</a>	Emerald Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">One-size-doesn't-fit-all: How to make multilingual DDJ work</a>	Salon C	Panel
10:15 – 11:15 a.m.	<a href="#">Python 2: Intro to data analysis using pandas (repeat)</a>	Salon 5	Hands-on
10:15 – 11:15 a.m.	<a href="#">Python: Basic mapping and GIS</a>	Copper Cove - conference level	Hands-on
10:15 – 11:15 a.m.	<a href="#">Spreadsheet add-ins you can't live without</a>	Salon C	Demo
11:30 a.m. – 12:30 p.m.	<a href="#">Creating your first satellite image</a>	Copper Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">How to build a collaborative investigation from scratch</a>	Salon C	Panel
11:30 a.m. – 12:30 p.m.	<a href="#">JavaScript 2: Hello D3! (repeat)</a>	Emerald Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Python 3: Data cleaning and visualization (repeat)</a>	Salon 5	Hands-on
11:30 a.m. – 12:30 p.m.	<a href="#">Year in international CAR</a>	Salon A&B	Panel