Presented by

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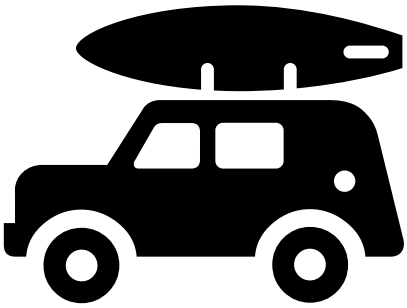

2019 CAR Conference

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

On Twitter: #NICAR19

This schedule was updated on February 27, 2019, but it could change. For the most current information, download the Guidebook app (guidebook.com) and search "2019 CAR Conference."

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

Wednesday, March 6

Time	Session	Room	Category
3 – 6 p.m.	CAR Conference registration (Wednesday)	Salon EF	General
3 – 6 p.m.	CAR Conference sales (Wednesday)	Salon EF	General

Thursday, March 7

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

Time	Session	Room	Category
10:15 – 11:15 a.m.	Excel 2: Formulas & sorting	Salon 3	Hands-on
10:15 – 11:15 a.m.	Finding your data story: Visual analytics best practices using Tableau (Hosted by Tableau)	Coral Cove - conference level	Hands-on
10:15 – 11:15 a.m.	Geocoding and avoiding pitfalls	Diamond Cove - conference level	Hands-on
10:15 – 11:15 a.m.	Google Sheets: Scraping without coding	Mariner Cove - conference level	Hands-on
10:15 – 11:15 a.m.	Graph databases 1: Building a database	Copper Cove - conference level	Hands-on
10:15 – 11:15 a.m.	How to teach yourself code	Salon D	Panel
10:15 – 11:15 a.m.	PostgreSQL	Sapphire Cove - conference level	Hands-on
10:15 – 11:15 a.m.	Share your work: Publishing your data analysis with R	Emerald Cove - conference level	Hands-on
10:15 – 11:15 a.m.	SQL 2: Grouping and summing data	Salon 4	Hands-on
10:15 – 11:15 a.m.	The state of data reporting outside major cities	Del Mar	Commons
10:15 – 11:15 a.m.	What<92>s new in Excel Online for analysis and visualization	Salon 1&2	Demo
10:15 – 11:15 a.m.	Which chart should I use, and why? Information design for the human brain!	Salon A&B	Panel
11:30 a.m. – 12:30 p.m.	Avant garde data viz	Salon A&B	Panel
11:30 a.m. – 12:30 p.m.	Calling bullshit: Data reasoning in a digital world	Salon 1&2	Panel
11:30 a.m. – 12:30 p.m.	Data journalism educators resource swap	Del Mar	Commons
11:30 a.m. – 12:30 p.m.	Excel 3: Filtering & pivot tables	Salon 3	Hands-on
11:30 a.m. – 12:30 p.m.	Excel for business & economics	Sapphire Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	Finding the story: The state of immigration	Diamond Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	From messy data to insightful story: Cleaning data using Tableau (Hosted by Tableau)	Coral Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	Graph databases 2: Finding stories in data	Copper Cove - conference level	Hands-on
11:30 a.m. – 12:30 p.m.	Making the leap from Excel to R	Salon C	Panel
11:30 a.m. – 12:30 p.m.	Python 101: An overview for total beginners	Salon D	Panel

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

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

Friday, March 8

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

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

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

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

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

Saturday, March 9

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

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

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

Sunday, March 10

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