



# Conference schedule

March 5-8, 2020 New Orleans Marriott 555 Canal Street, New Orleans, LA 70130

**Conference website:** Read our code of conduct, check out special events and more at ire.org/nicar20.

On Twitter: #NICAR20

This schedule was updated on February 10, 2020, with 222 of 239 sessions confirmed, but it could change! For the most current information, download the Guidebook app (guidebook.com) and search "2020 NICAR Conference."

### Thursday, March 5

Time	Session	Room
7:30 a.m 6 p.m.	Conference registration	Preservation Foyer, 2nd floor
7:30 a.m 6 p.m.	Conference sales	Preservation Foyer, 2nd floor
7:30 - 8:15 a.m.	International meet and greet	Carondelet, 3rd floor
8:30 - 8:50 a.m.	Welcome first timers! How to make the most of NICAR20	Acadia, 3rd floor
9 a.m 12:30 p.m.	PyCAR (pre-registration required)	Studio 3, 2nd floor
9 a.m 12:30 p.m.	Upping your Excel game (pre-registration required)	Studio 2, 2nd floor
9 a.m 5:45 p.m.	Interviewing your data with SQL (pre-registration required)	Studio 4, 2nd floor
9 a.m 12:30 p.m.	Master class: Editing the data story	Galerie 5, 2nd floor
9 – 10 a.m.	🌕 Hello world! Choose your data adventure	Acadia, 3rd floor
9 – 10 a.m.	Excel 1: Getting started with spreadsheets	Studio 8, 2nd floor
9 – 10 a.m.	Data dive: The 2019 Philip Meyer winners	Bissonet, 3rd floor
9 – 10 a.m.	Regular expressions for the rest of us	Studio 10, 2nd floor
9 – 10 a.m.	Finding needles in haystacks with fuzzy matching	Studio 9, 2nd floor
9 – 10 a.m.	Introduction to VisiData	Studio 6, 2nd floor
9 – 10 a.m.	Tracking money spent on candidates up and down the ballot in 2020	Galerie 3, 2nd floor
9 – 10 a.m.	How I learn to tell stories with data	Galerie 4, 2nd floor
9 – 10 a.m.	How the internet works (so you can scrape the web!)	Galerie 6, 2nd floor
9 – 10 a.m.	Negotiating for data at scale	Galerie 2, 2nd floor
9 – 10 a.m.	Finding the story: Census data	Studio 7, 2nd floor
9 – 10 a.m.	"Scrollytelling" with MapBox	Studio 1, 2nd floor
9 a.m. – 5 p.m.	Exhibitors and recruiters	Studio Foyers, 2nd floor
10:15 - 11:15 a.m.	Excel 2: Formulas & sorting	Studio 8, 2nd floor
10:15 - 11:15 a.m.	GitHub for journalists	Studio 1, 2nd floor
10:15 - 11:15 a.m.	Mining data into TV gold	Galerie 2, 2nd floor
10:15 - 11:15 a.m.	Finding the story: Using natural language processing in social media research	Studio 9, 2nd floor
10:15 - 11:15 a.m.	How to negotiate for data and records	Bissonet, 3rd floor
10:15 - 11:15 a.m.	How to make charts less bad	Galerie 6, 2nd floor
10:15 - 11:15 a.m.	My own worst enemy: Overcoming impostor syndrome	Galerie 4, 2nd floor
10:15 - 11:15 a.m.	Newsroom web scraping with JavaScript	Studio 6, 2nd floor
10:15 - 11:15 a.m.	Covering immigration with data	Acadia, 3rd floor
10:15 - 11:15 a.m.	Newsroom open-source tool showcase	Galerie 3, 2nd floor
10:15 - 11:15 a.m.	Data cleaning with OpenRefine 1: The basics	Studio 10, 2nd floor
10:15 - 11:15 a.m.	Create interactive demographic maps in minutes with ArcGIS Online	Studio 7, 2nd floor
11:30 a.m 12:30 p.m.	Investigating natural disasters: What to do before, during and after	Galerie 3, 2nd floor
11:30 a.m 12:30 p.m.	Data and docs for your arsenal	Bissonet, 3rd floor
11:30 a.m. – 12:30 p.m.	Excel 3: Filtering & pivot tables	Studio 8, 2nd floor

Time	Session	Room
11:30 a.m 12:30 p.m.	Python: Let's scrape a website	Studio 9, 2nd floor
11:30 a.m 12:30 p.m.	Google Sheets: Scraping without coding	Studio 1, 2nd floor
11:30 a.m 12:30 p.m.	Datasette: Explore and publish your datasets	Studio 6, 2nd floor
11:30 a.m 12:30 p.m.	Navigating NICAR as a TV journalist	Galerie 4, 2nd floor
11:30 a.m 12:30 p.m.	Making graphics with R	Studio 7, 2nd floor
11:30 a.m 12:30 p.m.	Data cleaning with OpenRefine 2: More advanced uses	Studio 10, 2nd floor
12:45 - 2 p.m.	Journalists of color in the newsroom meetup	Carondelet, 3rd floor
2:15 - 5:45 p.m.	Intro to R (pre-registration required)	Studio 2, 2nd floor
2:15 - 5:45 p.m.	Introduction to web development (pre-registration required)	Studio 9, 2nd floor
2:15 - 5:45 p.m.	First Observable notebook: Prototyping with polish (pre-registration required)	Studio 3, 2nd floor
2:15 - 5:45 p.m.	Master class: Statistics for journalists	Galerie 5, 2nd floor
2:15 - 3:15 p.m.	Free and easy data viz	Galerie 2, 2nd floor
2:15 - 3:15 p.m.	Excel: Advanced pivot tables	Studio 8, 2nd floor
2:15 - 3:15 p.m.	R 1: Intro to R and RStudio	Studio 7, 2nd floor
2:15 - 3:15 p.m.	Python 1: The fundamentals	Studio 6, 2nd floor
2:15 - 3:15 p.m.	Finding the story: Using DNS search for investigative journalism	Studio 1, 2nd floor
2:15 - 3:15 p.m.	Campaign finance questions people ask plus yours!	Galerie 4, 2nd floor
2:15 - 3:15 p.m.	Using open crime and policing data	Galerie 3, 2nd floor
2:15 - 3:15 p.m.	Year in CAR: Local innovation	Acadia, 3rd floor
2:15 - 3:15 p.m.	Mentoring for diversity and inclusion	Bissonet, 3rd floor
2:15 - 3:15 p.m.	Finding and researching international connection	Galerie 6, 2nd floor
2:15 - 5:45 p.m.	Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) (pre-registration required)	Studio 10, 2nd floor
3:30 - 4:30 p.m.	R 2: Data analysis and plotting	Studio 7, 2nd floor
3:30 - 4:30 p.m.	Python 2: Intro to data analysis using Pandas	Studio 6, 2nd floor
3:30 - 4:30 p.m.	PDF 1: How to extract text and tables from PDFs like a boss	Studio 8, 2nd floor
3:30 - 4:30 p.m.	Uncloaked: Flight tracking for investigating people, planes and patterns	Galerie 2, 2nd floor
3:30 - 4:30 p.m.	Tracking dark money in the 2020 elections	Bissonet, 3rd floor
3:30 - 4:30 p.m.	Investigating bias: From housing to policing	Acadia, 3rd floor
3:30 - 4:30 p.m.	DataKit: Workflow automation for the newsroom and classroom	Galerie 3, 2nd floor
3:30 - 4:30 p.m.	A demo of the Big Local News platform	Galerie 4, 2nd floor
3:30 - 4:30 p.m.	International year in CAR	Galerie 6, 2nd floor
3:30 - 4:30 p.m.	"Scrollytelling" with Mapbox (repeat)	Studio 1, 2nd floor
4:45 - 5:45 p.m.	R 3: Gathering and cleaning data	Studio 7, 2nd floor
4:45 - 5:45 p.m.	Python 3: Data cleaning and visualization	Studio 6, 2nd floor
4:45 - 5:45 p.m.	Finding the story: Campaign finance	Studio 8, 2nd floor
4:45 - 5:45 p.m.	Countdown to the big count: Getting ready for Census 2020	Acadia, 3rd floor
4:45 - 5:45 p.m.	Encryption and journalism: From idea to publication	Galerie 3, 2nd floor

Time	Session	Room
4:45 - 5:45 p.m.	Advanced data journalism through a browser	Galerie 6, 2nd floor
4:45 - 5:45 p.m.	Covering housing from A-Z: Localizing affordable housing stories and data	Galerie 2, 2nd floor
4:45 - 5:45 p.m.	DataKit install party	Galerie 4, 2nd floor
4:45 - 5:45 p.m.	Workbench: Reproducible data work without coding	Studio 1, 2nd floor
4:45 - 5:45 p.m.	The wrong things we all do	Bissonet, 3rd floor
6 - 7:15 p.m.	Welcome reception	Carondelet, 3rd floor

## Friday, March 6

Time	Session	Room
7:30 - 8:45 a.m.	Mentor program breakfast	Carondelet, 3rd floor
8 a.m. – 5 p.m.	Conference registration	Preservation Foyer, 2nd floor
8 a.m. – 5 p.m.	Conference sales	Preservation Foyer, 2nd floor
9 a.m 12:30 p.m.	PyCAR (pre-registration required)	Studio 3, 2nd floor
9 a.m 5:45 p.m.	First Python notebook: Data analysis on deadline (pre-registration required)	Studio 6, 2nd floor
9 a.m. – 12:30 p.m.	Digging into data for stories: A crash course in Excel (pre-registration required)	Studio 2, 2nd floor
9 a.m 12:30 p.m.	Master class: Election 2020 data	Galerie 5, 2nd floor
9 – 10 a.m.	Victims, villians and heroes: Turning data into characters	Galerie 3, 2nd floor
9 – 10 a.m.	Excel: Basic stats	Studio 8, 2nd floor
9 – 10 a.m.	JavaScript 1: Fundamentals and syntax	Studio 9, 2nd floor
9 – 10 a.m.	Finding the story: Business data	Studio 10, 2nd floor
9 – 10 a.m.	Navigating data.census.gov	Acadia, 3rd floor
9 – 10 a.m.	Getting started with Tableau Public	Studio 7, 2nd floor
9 – 10 a.m.	Encryption tools for journalists	Studio 4, 2nd floor
9 – 10 a.m.	Code buddies: Get help on your project	Galerie 4, 2nd floor
9 – 10 a.m.	Three free & powerful tools for analyzing document dumps	Galerie 6, 2nd floor
9 – 10 a.m.	Exploring the radio spectrum for news	Galerie 2, 2nd floor
9 a.m 5 p.m.	Exhibitors and recruiters	Studio Foyers, 2nd floor
9 a.m 12:30 p.m.	Master Class: Writing the investigative narrative (Friday morning)	Studio 1, 2nd floor
10:15 - 11:15 a.m.	Census: Numbers in the news	Acadia, 3rd floor
10:15 - 11:15 a.m.	JavaScript 2: Hello, D3!	Studio 9, 2nd floor
10:15 - 11:15 a.m.	Google Sheets: Custom formulas and automating tasks with the script editor	Studio 4, 2nd floor
10:15 - 11:15 a.m.	Advanced Tableau	Studio 7, 2nd floor
10:15 - 11:15 a.m.	Scraping in R	Studio 8, 2nd floor
10:15 - 11:15 a.m.	Data Blitz	Galerie 3, 2nd floor
10:15 - 11:15 a.m.	Beyond the horserace of election results graphics	Galerie 6, 2nd floor
10:15 - 11:15 a.m.	Build your own collaborative documentation site: An introduction to Library	Galerie 4, 2nd floor
10:15 - 11:15 a.m.	Interviewing your data	Bissonet, 3rd floor

Time	Session	Room
10:15 - 11:15 a.m.	Finding the story: Data-driven disaster coverage	Studio 10, 2nd floor
11:30 a.m 12:30 p.m.	Everything we know about covering guns, in one hour	Galerie 6, 2nd floor
11:30 a.m 12:30 p.m.	JavaScript 3: Making a map in D3	Studio 9, 2nd floor
11:30 a.m 12:30 p.m.	Hitchhikers guide to APIs	Studio 7, 2nd floor
11:30 a.m 12:30 p.m.	Finding the story: Using DNS search for investigative journalism (repeat)	Studio 4, 2nd floor
11:30 a.m 12:30 p.m.	Making interactive maps with R	Studio 8, 2nd floor
11:30 a.m 12:30 p.m.	Investigating sexual assault, for newsrooms big and small	Bissonet, 3rd floor
11:30 a.m 12:30 p.m.	Digital sleuthing with Bellingcat	Acadia, 3rd floor
11:30 a.m 12:30 p.m.	FOIA from the flip side	Galerie 3, 2nd floor
11:30 a.m 12:30 p.m.	Excel tricks you've never used	Studio 10, 2nd floor
11:30 a.m 12:30 p.m.	Breaking through coding plateaus	Galerie 4, 2nd floor
2:15 - 5:45 p.m.	ArcGIS: From spreadsheets to StoryMaps (pre-registration required)	Studio 7, 2nd floor
2:15 - 5:45 p.m.	Write better Python code (pre-registration required)	Studio 9, 2nd floor
2:15 - 5:45 p.m.	Master class: Writing the investigative narrative (Friday afternoon)	Galerie 5, 2nd floor
2:15 - 3:15 p.m.	Career paths in data journalism	Bissonet, 3rd floor
2:15 - 3:15 p.m.	Excel 1: Getting started with spreadsheets (repeat)	Studio 8, 2nd floor
2:15 - 3:15 p.m.	SQL 1: Exploring data	Studio 10, 2nd floor
2:15 - 3:15 p.m.	Stats 1: An introduction	Studio 4, 2nd floor
2:15 - 3:15 p.m.	Google Sheets: Scraping without coding (repeat)	Studio 1, 2nd floor
2:15 - 3:15 p.m.	Finding the story: Census data (repeat)	Studio 2, 2nd floor
2:15 - 3:15 p.m.	An automated election twitterbot using R and Python	Studio 3, 2nd floor
2:15 - 3:15 p.m.	Quick-turn data stories	Acadia, 3rd floor
2:15 - 3:15 p.m.	Avant garde data viz	Galerie 6, 2nd floor
2:15 - 3:15 p.m.	Covering disparities in education with data	Galerie 2, 2nd floor
2:15 - 3:15 p.m.	State of newsroom diversity reports	Galerie 4, 2nd floor
3:30 - 4:30 p.m.	Covering undercovered communities	Bissonet, 3rd floor
3:30 - 4:30 p.m.	Excel 2: Formulas & sorting (repeat)	Studio 8, 2nd floor
3:30 - 4:30 p.m.	SQL 2: Grouping and summing data	Studio 10, 2nd floor
3:30 - 4:30 p.m.	Stats 2: Linear regression	Studio 4, 2nd floor
3:30 - 4:30 p.m.	PDF 2: Using OCR to extract data from PDFs	Studio 3, 2nd floor
3:30 - 4:30 p.m.	Power Bl 1: Create interactive data visualizations	Studio 2, 2nd floor
3:30 - 4:30 p.m.	Data visualization & storytelling with Flourish	Studio 1, 2nd floor
3:30 - 4:30 p.m.	Communicating statistical significance	Acadia, 3rd floor
3:30 - 4:30 p.m.	Being a better ally	Galerie 4, 2nd floor
3:30 - 4:30 p.m.	Day-turn investigations	Galerie 6, 2nd floor
3:30 - 4:30 p.m.	Machine learning for the rest of us	Galerie 3, 2nd floor
3:30 - 4:30 p.m.	Beyond pictures: Turning satellite imagery into data	Galerie 2, 2nd floor

Time	Session	Room
4:45 - 5:45 p.m.	SQL 3: Joining tables	Studio 10, 2nd floor
4:45 - 5:45 p.m.	Stats 3: Logistic regression	Studio 4, 2nd floor
4:45 - 5:45 p.m.	PDF 3: Batch pdf processing	Studio 3, 2nd floor
4:45 - 5:45 p.m.	Geocoding using online tools	Studio 1, 2nd floor
4:45 - 5:45 p.m.	Power BI 2: Clean, join and visualize data	Studio 2, 2nd floor
5 - 6:15 p.m.	Lightning Talks	Galerie 2, 2nd floor
6:15 - 6:30 p.m.	Philip Meyer Award presentation	Acadia, 3rd floor
6:30 - 7:30 p.m.	Philip Meyer reception	Carondelet, 3rd floor

## Saturday, March 7

Time	Session	Room
8:30 a.m 6 p.m.	Conference registration	Preservation Foyer, 2nd floor
8:30 a.m 6 p.m.	Conference sales	Preservation Foyer, 2nd floor
9 a.m. – 12:30 p.m.	Mastering Google Sheets: Web scraping, running scripts and other tricks (Saturday) (pre-registration required)	Studio 1, 2nd floor
9 a.m 12:30 p.m.	Digging into data for stories: A crash course in Excel (pre-registration required)	Studio 2, 2nd floor
9 a.m 5:45 p.m.	Exploring the tidyverse in R (pre-registration required)	Studio 7, 2nd floor
9 a.m 5:45 p.m.	First graphics app: Node.js in the newsroom (pre-registration required)	Studio 3, 2nd floor
9 a.m 12:30 p.m.	Web scraping with Python (pre-registration required)	Studio 9, 2nd floor
9 a.m 12:30 p.m.	Master class: Finding and telling stories with earth imagery	Galerie 5, 2nd floor
9 – 10 a.m.	Educators meetup	Galerie 4, 2nd floor
9 – 10 a.m.	Advanced SQL: Update queries, sub-queries and more	Studio 10, 2nd floor
9 – 10 a.m.	Command line for reporters (Mac)	Studio 6, 2nd floor
9 – 10 a.m.	Enriched census data from IPUMS	Galerie 6, 2nd floor
9 – 10 a.m.	Mobile, data and desktop reporting tools for your newsroom	Acadia, 3rd floor
9 – 10 a.m.	QGIS 1: Mapmaking for beginners	Studio 8, 2nd floor
9 – 10 a.m.	Covering climate change: Beyond models and speculation	Galerie 3, 2nd floor
9 a.m. – 5 p.m.	Exhibitors and recruiters	Studio Foyers, 2nd floor
9 a.m. – 12:30 p.m.	Practical machine learning for investigations with fast.ai (Saturday morning) (pre- registration required)	Studio 4, 2nd floor
10:15 – 11:15 a.m.	Finding and using international data	Galerie 6, 2nd floor
10:15 - 11:15 a.m.	MySQL	Studio 10, 2nd floor
10:15 - 11:15 a.m.	Voter file data, from toplines to deep dives to breaches	Bissonet, 3rd floor
10:15 - 11:15 a.m.	Exploring networks with graph databases	Studio 6, 2nd floor
10:15 - 11:15 a.m.	Dear diary: Best practices for keeping a data diary	Galerie 3, 2nd floor
10:15 - 11:15 a.m.	QGIS 2: Analyzing geographic data	Studio 8, 2nd floor
10:15 - 11:15 a.m.	Burner profiles: How to safely create social media profiles for your investigations	Acadia, 3rd floor
10:15 – 11:15 a.m.	Unpacking Al's influence in society	Galerie 2, 2nd floor

1015-1015 a.m.         Inboducing and implementing security protocols in your newaroom         Calerie 4, 2 and floor           1030 c.m 1230 p.m.         Reconning for date visualization         Bissonel, 3 of floor           1030 c.m 1230 p.m.         Reconning for date visualization         Sucido 6, 2 and floor           1030 c.m 1230 p.m.         Beyond formulos A statistical world view         Galerie 6, 2 and floor           1030 c.m 1230 p.m.         Moking graphics with R (repeet)         Studio 8, 2 and floor           1030 c.m 1230 p.m.         Moking graphics with R (repeet)         Acada, 3 rd floor           1030 c.m 1230 p.m.         Act of the interview         Acada, 3 rd floor           1030 c.m 1230 p.m.         Moster your data with Power Query for Excel and Power Bl         Studio 10, 2 and floor           1030 c.m 1230 p.m.         Moster class interviewing         Galerie 5, 2 and floor           215 - 545 p.m.         Moster class Interviewing         Galerie 6, 2 and floor           215 - 545 p.m.         Moster class Interviewing         Galerie 6, 2 and floor           215 - 345 p.m.         Exploring data (repeat)         Studio 2, 2 and floor           215 - 345 p.m.         R Intro to R and RStudio (repeat)         Studio 2, 2 and floor           215 - 345 p.m.         R Intro to R and RStudio (repeat)         Studio 2, 2 and floor	Time	Session	Room
1130 c.m 1230 p.m. Resizoning for data visualization Studio A. 2nd floor 1130 c.m 1230 p.m. Beyond formulas. A statistical world view Galerie A. 2nd floor 1130 c.m 1230 p.m. Alwahing graphics with fl (repeat) Studio A. 2nd floor 1130 c.m 1230 p.m. Art of the interview Galerie A. 2nd floor 1130 c.m 1230 p.m. Art of the interview Galerie A. 2nd floor 1130 c.m 1230 p.m. Finding data for local investigations A. 2nd floor 1130 c.m 1230 p.m. However of the world with Power Query for Excel and Power Bl Studio 12, and floor 1130 c.m 1230 p.m. Moster your data with Power Query for Excel and Power Bl Studio 12, and floor 1130 c.m 1230 p.m. Interactive data vizwith D3 (pre-registration required) Studio 2, 2nd floor 1130 c.m 1230 p.m. Moster your data with Power Query for Excel and Power Bl Studio 12, 2nd floor 1130 c.m 1230 p.m. Moster your data with Power Query for Excel and Power Bl Studio 2, 2nd floor 1130 c.m 1230 p.m. Moster your data with D3 (pre-registration required) Studio 2, 2nd floor 1130 p.m. Moster duses Interviewing Galerie A. 2nd floor 1130 p.m. Research gumbon Redux Galerie S. 2nd floor 1130 p.m. Scell-Importing data (repeat) Studio 3, 2nd floor 1130 p.m. Scell-Importing data (repeat) Studio 3, 2nd floor 1130 p.m. Scell-Importing data (repeat) Studio 3, 2nd floor 1130 p.m. Scell-Importing data (repeat) Studio 3, 2nd floor 1130 p.m. Using excell to wrongle data without Excel Studio 4, 2nd floor 1130 p.m. Tracking 2000 digital ads Learn the sucrets of new political addatabases Galerie 2, 2nd floor 1130 p.m. Tracking 2000 digital ads Learn the sucrets of new political addatabases Galerie 4, 2nd floor 1130 p.m. The life of a data story. Going from data to narrotive Acadia, 3rd floor 1130 p.m. Finding the story in property records Studio 3, 2nd floor 1130 p.m. Finding the story in property records Studio 3, 2nd floor 1130 p.m. Finding the story in property records Studio 3, 2nd floor 1130 p.m. How to build a live data driving application that never croshes Studio 3, 2nd floor	10:15 - 11:15 a.m.	Introducing and implementing security protocols in your newsroom	Galerie 4, 2nd floor
113,00 a.m 123,00 p.m. Beyond formulas. A statistical world view Galerie A, 2nd floor 113,00 a.m 123,00 p.m. Moking graphics with R (repeat) Studio A, 2nd floor 113,00 a.m 123,00 p.m. Art of the interview Galerie A, 2nd floor 113,00 a.m 123,00 p.m. Art of the interview Galerie A, 2nd floor 113,00 a.m 123,00 p.m. Art of the interview Galerie A, 2nd floor 113,00 a.m 123,00 p.m. Master your data with Power Query for Excel and Power BI Studio 10, 2nd floor 113,00 a.m 123,00 p.m. Master your data with Power Query for Excel and Power BI Studio 10, 2nd floor 113,00 a.m 123,00 p.m. Master your data with Power Query for Excel and Power BI Studio 10, 2nd floor 113,00 a.m 123,00 p.m. Interactive data viz with D3 (pre-registration required) Studio 10, 2nd floor 215 - 545 p.m. Interactive data viz with D3 (pre-registration required) Studio 8, 2nd floor 215 - 545 p.m. Master class: Interviewing Galerie A, 2nd floor 215 - 315 p.m. Excel Importing data (repeat) Studio 8, 2nd floor 215 - 315 p.m. SQL 1. Exploring data (repeat) Studio 8, 2nd floor 215 - 315 p.m. SQL 1. Exploring data (repeat) Studio 8, 2nd floor 215 - 545 p.m. Practical machine learning for investigations with fast all (Saturday oftermoon) (gree registration required) Studio 8, 2nd floor 215 - 545 p.m. Using cawlit to wrangle data without Excel Studio 8, 2nd floor 215 - 545 p.m. Tracking 2020 digital ads Learn the secrets of new political ad databases Galeria 2, 2nd floor 215 - 545 p.m. Tracking 2020 digital ads Learn the secrets of new political ad databases Galeria 2, 2nd floor 215 - 315 p.m. Binding the story in property records Bissonet, 3rd floor 330 - 430 p.m. SCL 2. Crouping and summing data (repeat) Studio 8, 2nd floor 340 - 430 p.m. Excel CARwash. Cleaning dirty data to narrative Again and Studio 8, 2nd floor 340 p.m. Research grain and summing data (repeat) Studio 8, 2nd floor 340 p.m. How to build a live data-driven application that never croabes Studio 6, 2nd floor 340 p.m. How to make data findings come to life on radia Ga	11:30 a.m 12:30 p.m.	Building and telling a bulletproof data story	Galerie 3, 2nd floor
1130 a.m 1230 p.m. Making graphics with R (repeat) 1130 a.m 1230 p.m. Making graphics with R (repeat) 1130 a.m 1230 p.m. Finding data for local investigations 1130 a.m 1230 p.m. Finding data for local investigations 1130 a.m 1230 p.m. Maker your data with Dawer Query for Excel and Power BI 1130 a.m 1230 p.m. Using the Public Accountability Project to boost your reporting 1130 a.m 1230 p.m. Using the Public Accountability Project to boost your reporting 1130 a.m 1230 p.m. Using the Public Accountability Project to boost your reporting 1130 a.m 1230 p.m. Using the Public Accountability Project to boost your reporting 1130 a.m 1230 p.m. Moster class: Interview the D3 (pre-registration required) 1235 - 545 p.m. Moster class: Interview and floor 1235 - 545 p.m. Research gumbo: Redux 1235 - 345 p.m. Excel: Importing data 1245 - 345 p.m. SQL i: Exploring data (repeat) 125 - 345 p.m. SQL i: Exploring data (repeat) 125 - 545 p.m. Pactical machine learning for investigations with fost.at (Saturday effermaon) (pre-registration required) 125 - 345 p.m. Using cavitit to wrangle data without Excel 125 - 345 p.m. Tracking 2020 digital ads. Learn the secrets of new political ad databases 1245 - 345 p.m. Tracking 2020 digital ads. Learn the secrets of new political ad databases 1245 - 345 p.m. Being scrappy: Deing data journalism as a team of one 1245 - 345 p.m. Excel CARwash: Cleaning dirty data 1245 - 345 p.m. Excel CARwash: Cleaning dirty data 1245 - 345 p.m. Packing 2020 digital ads. Learn the secrets of new political ad databases 1246 - 340 p.m. SQL 2 Grouping and summing data (repeat) 125 - 345 p.m. Excel CARwash: Cleaning dirty data 126 - 340 p.m. SQL 2 Grouping and summing data (repeat) 127 - 340 p.m. SQL 2 Grouping and summing data (repeat) 128 - 340 p.m. How to build a live data-driven application that never crashes 129 - 4430 p.m. Leading the data team 129 - 4430 p.m. Leading the data team 129 - 4430 p.m. Leading the data team 120 - 4430 p.m. Leading the data team 120 - 4430 p.m. Leading	11:30 a.m 12:30 p.m.	Reasoning for data visualization	Bissonet, 3rd floor
1130 a.m 1230 p.m. Making grophics with R (repeat)  1130 a.m 1230 p.m. Art of the interview  Galerie 2, 2nd floor  1130 a.m 1230 p.m. Master your data with Power Query for Excel and Power BI  1130 a.m 1230 p.m. Master your data with Power Query for Excel and Power BI  1130 a.m 1230 p.m. Master your data with Power Query for Excel and Power BI  1130 a.m 1230 p.m. Master your data with Power Query for Excel and Power BI  1130 a.m 1230 p.m. Using the Public Accountability Project to boost your reporting Golerie 4, 2nd floor  2135 - 5435 p.m. Interactive data viz with DS (pre-registration required)  Studio 9, and floor  2135 - 5435 p.m. Research gumbo: Redux Golerie 4, 2nd floor  2135 - 5435 p.m. Excel Importing data  2135 - 313 p.m. Spearch gumbo: Redux Golerie 4, 2nd floor  2135 - 313 p.m. Spearch gumbo: Redux Studio (repeat)  2135 - 5435 p.m. Spearch gumbo: Redux Studio (repeat)  2135 - 5435 p.m. Practical machine learning for investigations with fast of (Saturday afternaon) (pre-registration required)  2135 - 5435 p.m. Using cavkii to wrongle data without Excel Spearch gumbo: Redux Golerie 2, 2nd floor  2135 - 313 p.m. The life of a data story: Going from data to narrative  2135 - 313 p.m. Being scroppy. Doing data journalism as a team of one Golerie 2, 2nd floor  2135 - 313 p.m. Being scroppy. Doing data journalism as a team of one Golerie 4, 2nd floor  2135 - 313 p.m. Finding the story in property records  Studio 8, 2nd floor  2136 - 430 p.m. SQL 2: Grouping and summing data (repeat)  Studio 8, 2nd floor  3130 - 430 p.m. How to build a live data-driven application that never crashes  Studio 8, 2nd floor  3130 - 430 p.m. How to build a live data-driven application that never crashes  Studio 8, 2nd floor  3130 - 430 p.m. How to squeeze court records to get the most juice  3130 - 430 p.m. Usidio 10, 2nd floor  3130 - 430 p.m. Usidio 10, 2nd floor  3130 - 430 p.m. Digital security hygiene and threat modeling for journalists  Situation 10, 2nd floor  3130 - 430 p.m. Digital security hygiene an	11:30 a.m 12:30 p.m.	Text mining in R with tidytext	Studio 6, 2nd floor
11.50 a.m 12.30 p.m. Art of the interview Galerie 2. 2nd floor 11.30 a.m 12.30 p.m. Finding data for local investigations 11.30 a.m 12.30 p.m. Moster your data with Power Query for Excel and Power BI 11.30 a.m 12.30 p.m. Using the Public Accountability Project to boost your reporting Galerie 4, 2nd floor 11.30 a.m 12.30 p.m. Using the Public Accountability Project to boost your reporting Galerie 4, 2nd floor 11.35 a.m 12.35 p.m. Interactive data viz with D3 (pre-registration required) Studio 9, 2nd floor 12.35 - 5.45 p.m. Moster class Interviewing Galerie 5, 2nd floor 12.35 - 5.45 p.m. Research gumbor Redux Galerie 6, 2nd floor 12.35 - 3.35 p.m. Research gumbor Redux Galerie 6, 2nd floor 12.35 - 3.35 p.m. Excel Importing data 12.35 - 3.35 p.m. SQL to Exploring data (repeat) Studio 8, 2nd floor 12.35 - 3.35 p.m. Rithroto R and RStudio (repeat) Studio 8, 2nd floor 12.35 - 3.45 p.m. Proctical machine learning for investigations with frast.ci (Saturday afternoon) (pre- 12.35 - 3.45 p.m. Using caskit to wrangle data without Excel Studio Studio 4, 2nd floor 12.35 - 3.35 p.m. Tracking 2020 digital ads. Learn the secrets of new political ad databases Galerie 2, 2nd floor 12.35 - 3.35 p.m. The life of a data story. Going from data to narrative Acades, 3rd floor 12.35 - 3.35 p.m. Finding the story in property records Biscenet, 3rd floor 12.35 - 3.35 p.m. Excel CARwash: Cleaning dirty data 13.30 - 4.30 p.m. SQL 2: Grouping and summing data (repeat) Studio 8, 2nd floor 13.30 - 4.30 p.m. SQL 2: Grouping and summing data (repeat) Studio 8, 2nd floor 13.30 - 4.30 p.m. How to build a live data-driven application that never crashes 13.30 - 4.30 p.m. How to make data findings come to life on radio 13.30 - 4.30 p.m. How to make data findings come to life on radio 13.30 - 4.30 p.m. How to make data findings come to life on radio 13.30 - 4.30 p.m. Digital security hygiene and throat modeling for journalists 13.30 - 4.30 p.m. Digital security hygiene and throat modeling for journalists 13.30 - 4.30 p.m. Finding the	11:30 a.m 12:30 p.m.	Beyond formulas: A statistical world view	Galerie 6, 2nd floor
11:30 a.m 12:30 p.m. Master your data with Power Query for Excel and Power BI Studio 10, 2nd floor 11:30 a.m 12:30 p.m. Master your data with Power Query for Excel and Power BI Studio 10, 2nd floor 11:30 a.m 12:30 p.m. Using the Public Accountability Project to boost your reporting Galerie 4, 2nd floor 215 - 5:45 p.m. Interactive data viz with D3 (pre-registration required) Studio 9, 2nd floor 215 - 5:45 p.m. Master class: Interviewing Galerie 5, 2nd floor 215 - 5:45 p.m. Research gumbo. Redux Galerie 6, 2nd floor 215 - 3:45 p.m. Research gumbo. Redux Galerie 6, 2nd floor 215 - 3:45 p.m. SQL 1: Exploring data (repeat) Studio 10, 2nd floor 215 - 3:45 p.m. SQL 1: Exploring data (repeat) Studio 10, 2nd floor 215 - 3:45 p.m. R1 Intro to R and RStudio (repeat) Studio 2, 2nd floor 215 - 3:45 p.m. R1 Intro to R and RStudio (repeat) Studio 3, 2nd floor 215 - 3:45 p.m. Using csvkit to wrangle data without Excel Studio 3, 2nd floor 215 - 3:45 p.m. Using csvkit to wrangle data without Excel Studio 4, 2nd floor 215 - 3:45 p.m. Tracking 2020 digital ads. Learn the secrets of new political ad databases Galerie 2, 2nd floor 215 - 3:45 p.m. The life of a data story; Going from data to narrative Acadia, 3rd floor 215 - 3:45 p.m. Rinding the story in property records Bissonet, 3rd floor 215 - 3:45 p.m. Finding the story in property records Bissonet, 3rd floor 3:00 - 4:30 p.m. Excel CARwash: Claoning dirty data Studio 6, 2nd floor 3:00 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) Studio 6, 2nd floor 3:00 - 4:30 p.m. R 2: Data analysis and platting (repeat) Studio 7, 2nd floor 3:00 - 4:30 p.m. How to build a live data driven application that never crashes Studio 6, 2nd floor 3:00 - 4:30 p.m. How to make data findings come to life on radio Galerie 4, 2nd floor 3:00 - 4:30 p.m. Leading the data dram Galerie on radio Galerie 4, 2nd floor 3:00 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 3:00 - 4:30 p.m. Excel Using string functions to manipulate data Studio 8, 2nd floo	11:30 a.m 12:30 p.m.	Making graphics with R (repeat)	Studio 8, 2nd floor
11.30 a.m 12.30 p.m. Master your data with Power Query for Excel and Power BI 11.30 a.m 12.30 p.m. Using the Public Accountability Project to boost your reporting Galerie 4, 2nd floor 215 - 5.45 p.m. Interactive data viz with D3 (pre-registration required) Studio 9, 2nd floor 215 - 5.45 p.m. Master class: Interviewing Galerie 5, 2nd floor 215 - 5.45 p.m. Research gumbor Redux Galerie 6, 2nd floor 215 - 3.15 p.m. Excel: Importing data 215 - 3.15 p.m. Excel: Importing data 215 - 3.15 p.m. SQL 1: Exploring data (repeat) Studio 10, 2nd floor 215 - 3.15 p.m. R1: Intro to R and RStudio (repeat) Studio 10, 2nd floor 215 - 3.15 p.m. R1: Intro to R and RStudio (repeat) Studio 2, 2nd floor 215 - 3.15 p.m. Using cavkit to wrangle data without Excel Studio 3, 2nd floor 215 - 3.15 p.m. Using cavkit to wrangle data without Excel Studio 4, 2nd floor 215 - 3.15 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases Galerie 2, 2nd floor 215 - 3.15 p.m. The life of a data story, Going from data to narrative Acadio, 3rd floor 215 - 3.15 p.m. Being scrappy; Doing data journalism as a team of one Galerie 4, 2nd floor 215 - 3.15 p.m. Finding the story in property records Bissonet, 3rd floor 215 - 3.15 p.m. Excel CARwash. Cleaning dirty data 230 - 4.30 p.m. Excel CARwash. Cleaning dirty data 230 - 4.30 p.m. R2 Data analysis and plotting (repeat) Studio 8, 2nd floor 230 - 4.30 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 230 - 4.30 p.m. How to squeeze court records to get the most juice Acadio, 3rd floor 230 - 4.30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 230 - 4.30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 230 - 4.30 p.m. Digital security hygiene and threat modeling for journalists 330 - 4.30 p.m. Excel: Using string functions to manipulate data 445 - 5.45 p.m. Excel: Using string functions to manipulate data 445 - 5.45 p.m. Bringing data journalism to your student newsroom	11:30 a.m 12:30 p.m.	Art of the interview	Galerie 2, 2nd floor
11.30 a.m. 12.30 p.m. Using the Public Accountability Project to boost your reporting Studio 9, 2nd floor 2.15 - 5.45 p.m. Interactive data viz with D3 (pre-registration required) Studio 9, 2nd floor 2.15 - 5.45 p.m. Moster class: Interviewing Golerie 5, 2nd floor 2.15 - 5.45 p.m. Research gumbo: Redux Golerie 6, 2nd floor 2.15 - 3.15 p.m. Excel: Importing data Studio 8, 2nd floor 2.15 - 3.15 p.m. SQL 1: Exploring data Studio (repeat) Studio 10, 2nd floor 2.15 - 3.15 p.m. R1: Intro to R and R Studio (repeat) Studio 2, 2nd floor 2.15 - 3.15 p.m. Practical machine learning for investigations with fast.ai (Saturday afternoon) (preceditor 1.15 p.m. Using assist to wrongle data without Excel Studio 4, 2nd floor 2.15 - 3.15 p.m. Tracking 20.20 digital ads: Learn the secrets of new political ad databases Golerie 2, 2nd floor 2.15 - 3.15 p.m. The life of a data story: Going from data to narrative Acadio, 3rd floor 2.15 - 3.15 p.m. Finding the story in property records Bissonet, 3rd floor 2.15 - 3.15 p.m. Finding the story in property records Bissonet, 3rd floor 3.30 p.m. Excel CARwash: Cleaning dirty data Studio (repeat) Studio 8, 2nd floor 3.30 p.m. SQL 2: Grouping and summing data (repeat) Studio 8, 2nd floor 3.30 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 3.30 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 3.30 p.m. How to make data findings come to life on radio Golerie 2, 2nd floor 3.30 p.m. How to make data findings come to life on radio Golerie 2, 2nd floor 3.30 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 3.30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 4.30 p.m. Finding the story: Compaign finance (repeat) Studio 8, 2nd floor 4.45 p.m. Excel. Using string functions to manipulate data 4.45 p.m. Sudio 10, 2nd floor 3.30 p.m. Singing data journalism to your student newsroom Golerie 4, 2nd floor 3.40 p.m. Singing data journalism to your student newsroom Goleri	11:30 a.m 12:30 p.m.	Finding data for local investigations	Acadia, 3rd floor
215 - 5.45 p.m.       Interactive data viz with D3 (pre-registration required)       Studio 9, 2nd floor         215 - 5.45 p.m.       Moster class: Interviewing       Galerie 5, 2nd floor         215 - 3.45 p.m.       Research gumbo: Redux       Studio 8, 2nd floor         215 - 3.45 p.m.       Excel: Importing data       Studio 10, 2nd floor         215 - 3.45 p.m.       SQL 1: Exploring data (repeat)       Studio 10, 2nd floor         215 - 3.45 p.m.       R 1: Intro to R and RStudio (repeat)       Studio 2, 2nd floor         215 - 3.45 p.m.       Practical machine learning for investigations with fast.ai (Saturday afternoon) (pre-registration required)       Studio 2, 2nd floor         215 - 3.45 p.m.       Using csvkit to wrangle data without Excel       Studio 3, 2nd floor         215 - 3.45 p.m.       Tracking 2020 digital ads Learn the secrets of new political ad databases       Galerie 2, 2nd floor         215 - 3.45 p.m.       The life of a data story; Going from data to narrative       Acadia, 3rd floor         215 - 3.45 p.m.       Thinding the story in property records       Bissonet, 3rd floor         3,30 - 4.30 p.m.       Excel CARwash: Cleaning dirty data       Studio 8, 2nd floor         3,30 - 4.30 p.m.       R 2: Data analysis and plotting (repeat)       Studio 2, 2nd floor         3,30 - 4.30 p.m.       How to make data findings come to life on radio       Galerie 2, 2nd floor	11:30 a.m 12:30 p.m.	Master your data with Power Query for Excel and Power BI	Studio 10, 2nd floor
215 - 5.45 p.m. Moster class: Interviewing Galerie 5, 2nd floor 215 - 315 p.m. Research gumbo: Redux Galerie 6, 2nd floor 215 - 315 p.m. Excel: Importing data 215 - 315 p.m. SQL 1: Exploring data (repeat) Studio 8, 2nd floor 215 - 315 p.m. R 1: Intro to R and RStudio (repeat) Studio 2, 2nd floor 215 - 315 p.m. R 1: Intro to R and RStudio (repeat) Studio 2, 2nd floor 215 - 315 p.m. Practical machine learning for investigations with fast.ai (Saturday afternoon) (preregistration required) 215 - 315 p.m. Using askit to wrangle data without Excel Studio 6, 2nd floor 215 - 315 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases Galerie 2, 2nd floor 215 - 315 p.m. The life of a data story: Going from data to narrative Acadia, 3rd floor 215 - 315 p.m. Being scrappy: Doing data journalism as a team of one Galerie 4, 2nd floor 215 - 315 p.m. Finding the story in property records Bissonet, 3rd floor 230 - 4:30 p.m. Excel CARwash: Cleaning dirty data Studio 8, 2nd floor 330 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) Studio 10, 2nd floor 330 - 4:30 p.m. R 2: Data analysis and plotting (repeat) Studio 2, 2nd floor 330 - 4:30 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 330 - 4:30 p.m. How to make data findings come to life on radio Galerie 6, 2nd floor 330 - 4:30 p.m. How to make data findings come to life on radio Galerie 6, 2nd floor 330 - 4:30 p.m. How to make data findings come to life on radio 300 - 4:30 p.m. Census Reporting 2.0 Galerie 4, 2nd floor 330 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 330 - 4:30 p.m. Finding the story: Campaign finance (repeat) Studio 8, 2nd floor 34-45 p.m. Excel. Using string functions to manipulate data 554 p.m. Excel. Using string functions to manipulate data 554 p.m. R 3: Gathering and cleaning data (repeat) 554 p.m. R 3: Gathering and cleaning data (repeat)	11:30 a.m 12:30 p.m.	Using the Public Accountability Project to boost your reporting	Galerie 4, 2nd floor
215 - 315 p.m. Research gumbo: Redux Studio 8, 2nd floor 215 - 315 p.m. Excel. Importing data 215 - 315 p.m. SQL 1: Exploring data (repeat) 215 - 315 p.m. R 1: Intro to R and RStudio (repeat) 215 - 315 p.m. R 1: Intro to R and RStudio (repeat) 215 - 315 p.m. Practical machine learning for investigations with fast ai (Saturday afternoon) (preregistration required) 215 - 315 p.m. Using csvkit to wrangle data without Excel 215 - 315 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases Calerie 2, 2nd floor 215 - 315 p.m. The life of a data story: Going from data to narrative Acadia, 3rd floor 215 - 315 p.m. Being scrappy. Doing data journalism as a team of one 215 - 315 p.m. Finding the story in property records Bissonet, 3rd floor 215 - 315 p.m. Excel CARwash: Cleaning dirty data 330 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) 330 - 4:30 p.m. R 2: Data analysis and plotting (repeat) 330 - 4:30 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 330 - 4:30 p.m. How to make data findings come to life on radio 330 - 4:30 p.m. Leading the data team Galerie 2, 2nd floor 330 - 4:30 p.m. How to make data findings come to life on radio Galerie 4, 2nd floor 330 - 4:30 p.m. Census Reporting 20 Galerie 4, 2nd floor 330 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 330 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 330 - 4:30 p.m. Excel. Using string functions to manipulate data 4:45 - 5:45 p.m. Excel. Using string functions to manipulate data 4:45 - 5:45 p.m. R 3: Gathering and cleaning data (repeat) 5tudio 10, 2nd floor	2:15 - 5:45 p.m.	Interactive data viz with D3 (pre-registration required)	Studio 9, 2nd floor
215 - 315 p.m. Excel: Importing data 215 - 315 p.m. SQL 1: Exploring data (repeat) 215 - 315 p.m. R 1: Intro to R and RStudio (repeat) 215 - 315 p.m. Practical machine learning for investigations with fast.ai (Saturday afternoon) (preregistration required) 215 - 315 p.m. Using csvkit to wrangle data without Excel Studio 6, 2nd floor 215 - 315 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases Galerie 2, 2nd floor 215 - 315 p.m. The life of a data story: Going from data to narrative Acadia, 3rd floor 215 - 315 p.m. Being scrappy: Doing data journalism as a team of one Galerie 4, 2nd floor 215 - 315 p.m. Finding the story in property records 215 - 315 p.m. Excel CARwash: Cleaning dirty data 230 - 4130 p.m. SQL 2: Grouping and summing data (repeat) 230 - 4130 p.m. R 2: Data analysis and plotting (repeat) 230 - 4130 p.m. How to build a live data-driven application that never crashes 230 - 4130 p.m. How to make data findings come to life on radio 230 - 4130 p.m. Leading the data team 230 - 4130 p.m. Leading the data team 230 - 4130 p.m. Leading the data team 230 - 4130 p.m. Digital security hygiene and threat modeling for journalists 230 - 4130 p.m. Digital security hygiene and threat modeling for journalists 230 - 4130 p.m. Finding the story: Campaign finance (repeat) 230 - 4130 p.m. Excel: Using string functions to manipulate data 230 - 4130 p.m. Excel: Using string functions to manipulate data 230 - 4130 p.m. Excel: Using string functions to manipulate data 230 - 4130 p.m. Excel: Using string functions to manipulate data 230 - 4130 p.m. SQL 3: Joining tables (repeat) 231 - 4130 p.m. Excel: Using string functions to manipulate data 232 - 4130 p.m. SQL 3: Joining tables (repeat) 233 - 4130 p.m. Excel: Using string functions to manipulate data 234 - 5145 p.m. SQL 3: Joining tables (repeat) 234 - 5145 p.m. SQL 3: Joining and cleaning data (repeat) 235 - 5145 p.m. SQL 3: Joining and cleaning data (repeat) 236 - 5145 p.m. Square and floor	2:15 - 5:45 p.m.	Master class: Interviewing	Galerie 5, 2nd floor
215 - 315 p.m. SQL 1: Exploring data (repeat) Studio 10, 2nd floor 215 - 315 p.m. R 1: Intro to R and RStudio (repeat) Studio 2, 2nd floor 215 - 315 p.m. Practical machine learning for investigations with fast.ai (Saturday afternaon) (pre- registration required) Studio 3, 2nd floor 215 - 315 p.m. Using csvkit to wrangle data without Excel Studio 6, 2nd floor 215 - 315 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases Galerie 2, 2nd floor 215 - 315 p.m. The life of a data story: Going from data to narrative Acadia, 3rd floor 215 - 315 p.m. Being scrappy: Doing data journalism as a team of one Galerie 4, 2nd floor 215 - 315 p.m. Finding the story in property records 330 - 4130 p.m. Excel CARwash: Cleaning dirty data Studio 8, 2nd floor 330 - 4130 p.m. SQL 2: Grouping and summing data (repeat) Studio 10, 2nd floor 330 - 4130 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 330 - 4130 p.m. How to make data findings come to life on radio Galerie 4, 2nd floor 330 - 4130 p.m. Leading the data team Galerie 2, 2nd floor 330 - 4130 p.m. Leading the data team Galerie 2, 2nd floor 330 - 4130 p.m. Census Reporting 2.0 Galerie 4, 2nd floor 330 - 4130 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 350 - 4130 p.m. Finding the story: Campaign finance (repeat) Studio 4, 2nd floor 350 - 4130 p.m. Finding the story: Campaign finance (repeat) Studio 8, 2nd floor 350 - 4130 p.m. Excel: Using string functions to manipulate data 350 - 4150 p.m. R 3: Gathering and cleaning data (repeat) Studio 10, 2nd floor	2:15 - 3:15 p.m.	Research gumbo: Redux	Galerie 6, 2nd floor
245 - 345 p.m. R 1: Intro to R and RStudio (repeat)  245 - 345 p.m. Practical machine learning for investigations with fast ai (Saturday afternoon) (precigistration required)  245 - 345 p.m. Using csvkit to wrangle data without Excel  245 - 345 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases  Galerie 2, 2nd floor  245 - 345 p.m. The life of a data story: Going from data to narrative  Acadia, 3rd floor  245 - 345 p.m. Being scrappy: Doing data journalism as a team of one  Galerie 4, 2nd floor  245 - 345 p.m. Finding the story in property records  Bissonet, 3rd floor  245 - 345 p.m. Finding the story in property records  Studio 8, 2nd floor  245 - 345 p.m. SQL 2: Grouping and summing data (repeat)  Studio 10, 2nd floor  330 - 4430 p.m. SQL 2: Grouping and summing data (repeat)  Studio 2, 2nd floor  330 - 4430 p.m. How to build a live data-driven application that never crashes  Studio 6, 2nd floor  330 - 4430 p.m. How to make data findings come to life on radio  Galerie 6, 2nd floor  330 - 4430 p.m. Leading the data team  Galerie 2, 2nd floor  330 - 4430 p.m. How to squeeze court records to get the most juice  Acadia, 3rd floor  330 - 4430 p.m. Census Reporting 2.0  Galerie 4, 2nd floor  330 - 4430 p.m. Digital security hygiene and threat modeling for journalists  Bissonet, 3rd floor  330 - 4430 p.m. Finding the story: Campaign finance (repeat)  Studio 8, 2nd floor  330 - 4430 p.m. Excel: Using string functions to manipulate data  Studio 8, 2nd floor  340 - 445 p.m. SQL 3: Joining tables (repeat)  Studio 10, 2nd floor  3445 - 545 p.m. SQL 3: Joining tables (repeat)  Studio 10, 2nd floor	2:15 - 3:15 p.m.	Excel: Importing data	Studio 8, 2nd floor
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	4:45 - 5:45 p.m.	R 3: Gathering and cleaning data (repeat)	Studio 2, 2nd floor
4:45 - 5:45 p.m. What parts of digital storytelling should we automate next? Galerie 6, 2nd floor	4:45 - 5:45 p.m.	Bringing data journalism to your student newsroom	Galerie 4, 2nd floor
	4:45 - 5:45 p.m.	What parts of digital storytelling should we automate next?	Galerie 6, 2nd floor

Time	Session	Room
4:45 - 5:45 p.m.	Using IRS nonprofit data and decoding 990s	Bissonet, 3rd floor
4:45 - 5:45 p.m.	Collaborate tool	Galerie 2, 2nd floor
4:45 - 5:45 p.m.	Geocoding using programming	Studio 6, 2nd floor
6:30 - 7:30 p.m.	Closing reception	New Orleans Audubon Aquarium of the Americas

## Sunday, March 8

9 - 10 a.m. JavaScript 2: Hello D3 (repeat) Studio 3. and floor 9 - 10 a.m. Studio 2. and floor 9 - 10 a.m. Studio 2. and floor 9 - 10 a.m. Python 1: The fundamentals (repeat) Studio 3. and floor 9 - 10 a.m. Python 1: The fundamentals (repeat) Studio 4. and floor 9 - 10 a.m. PDF 1: Using free online tools (repeat) Studio 4. and floor 9 - 10 a.m. Finding the story: Opioid data Studio 4. and floor 9 - 10 a.m. Finding the story: Opioid data Studio 4. and floor 9 - 10 a.m. TL;DR: What to remember when you forget everything else Galerie 2, and floor 9 a.m 12:30 p.m. Galerie 4. and floor 9 a.m 12:30 p.m. Master class: Getting ready to cover Census 2020 Galerie 4. and floor 9 a.m 12:30 p.m. Master class: Getting ready to cover Census 2020 Galerie 4. and floor 9 a.m 12:30 p.m. Master class: Getting ready to cover Census 2020 Galerie 4. and floor 9 a.m 12:30 p.m. Master class: Getting ready to cover Census 2020 Galerie 4. and floor 9 a.m 12:30 p.m. Master class: Getting ready to cover Census 2020 Galerie 4. and floor 9 a.m 10:30 a.m. Studio 9, 2nd floor 9 and floor 9 a.m. Studio 9, 2nd floor 9 a.m.	Time	Session	Room
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