



# 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 4, 2020, with 216 of 238 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.	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
11:30 a.m 12:30 p.m.	Python: Let's scrape a website	Studio 9, 2nd floor

13.00 a.m 12.50 p.m. Google Sheets. Scroping without coding Studio 1, 2nd floor 13.00 a.m 12.50 p.m. Novigating NICAR as a TV journalist (13.00 a.m 12.30 p.m. Moling graphics with R Studio 2, 2nd floor 13.00 a.m 12.30 p.m. Moling graphics with R Studio 2, 2nd floor 13.00 a.m 12.30 p.m. Moling graphics with R Studio 2, 2nd floor 13.00 a.m 12.30 p.m. Moling graphics with R Studio 2, 2nd floor 12.45 - 2.45 p.m. Duradists of color in the newsroom meetup Corondelet, 3rd floor 12.5 - 5.45 p.m. Intro to R (pre-registration required) Studio 2, 2nd floor 12.5 - 5.45 p.m. Introduction to web development (pre-registration required) Studio 2, 2nd floor 12.5 - 5.45 p.m. Introduction to web development (pre-registration required) Studio 3, 2nd floor 12.5 - 5.45 p.m. Fract Observable netabook: Prototyping with polish (pre-registration required) Studio 3, 2nd floor 12.5 - 5.45 p.m. Fract Observable netabook: Prototyping with polish (pre-registration required) Studio 3, 2nd floor 12.5 - 5.45 p.m. Proce and sawy data with seven	Time	Session	Room
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1245 - 2 p.m. Intro to R (pre-registration required) Studio 2, 2nd floor 215 - 545 p.m. Intro to R (pre-registration required) Studio 2, 2nd floor 215 - 545 p.m. Intro duction to web development (pre-registration required) Studio 3, 2nd floor 215 - 545 p.m. First Observable notebook: Prototyping with polish (pre-registration required) Studio 3, 2nd floor 215 - 545 p.m. Free and easy data viz Galerie 2, 2nd floor 215 - 545 p.m. Free and easy data viz Galerie 3, 2nd floor 215 - 315 p.m. Free and easy data viz Galerie 2, 2nd floor 215 - 315 p.m. Excel: Advanced pivot tables Studio 3, 2nd floor 215 - 315 p.m. Python it The fundamentals Studio 3, 2nd floor 215 - 315 p.m. Python it The fundamentals Studio 3, 2nd floor 215 - 315 p.m. Python it The fundamentals Studio 3, 2nd floor 215 - 315 p.m. Campaign finance questions people ask plus yours! Galerie 4, 2nd floor 215 - 315 p.m. Using open crime and policing data Galerie 4, 2nd floor 215 - 315 p.m. Using open crime and policing data Galerie 4, 2nd floor 215 - 315 p.m. Werr in CARL Local innovation Acadia, 3rd floor 215 - 315 p.m. Hentoring for diversity and inclusion Bissonet, 3rd floor 215 - 315 p.m. Finding and researching international connection Galerie 4, 2nd floor 215 - 315 p.m. Pinding and researching international connection Galerie 6, 2nd floor 330 - 430 p.m. Python 2; Intro to data analysis using Pandas Studio 8, 2nd floor 330 - 430 p.m. Python 2; Intro to data analysis using Pandas Studio 6, 2nd floor 330 - 430 p.m. Python 2; Intro to data analysis using Pandas Studio 6, 2nd floor 330 - 430 p.m. Python 3; Intro to data analysis using Pandas Studio 6, 2nd floor 330 - 430 p.m. Data Kitk Workflow automation for the newsroom and classroom Galerie 2, 2nd floor 330 - 430 p.m. Data Kitk Workflow automation for the newsroom and classroom Galerie 2, 2nd floor 330 - 430 p.m. Data Kitk Workflow automation for the newsroom and classroom Galerie 2, 2nd floor 330 - 430 p.m. Python 3; Data cleaning add teaning data Studio 6, 2nd floor Scalar p.m. Python 3; Data cleani	11:30 a.m 12:30 p.m.	Making graphics with R	Studio 7, 2nd floor
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215 - 5.45 p.m. Introduction to web development (pre-registration required) 215 - 5.45 p.m. First Observable notebook: Prototyping with polish (pre-registration required) 215 - 5.45 p.m. Master class: Statistics for journalists 215 - 5.45 p.m. Free and easy data viz 215 - 5.45 p.m. Free and easy data viz 215 - 3.45 p.m. Exceli Advanced pivot tables 215 - 3.45 p.m. Exceli Advanced pivot tables 215 - 3.45 p.m. Python 1: The fundamentals 215 - 3.45 p.m. Campoign finance questions people askplus yours! Galerie 4. 2nd floor 215 - 3.45 p.m. Ver in CAR: Local innovation 215 - 3.45 p.m. Ver in CAR: Local innovation 215 - 3.45 p.m. Mentoring for diversity and inclusion 215 - 3.45 p.m. Pinding and researching international connection 215 - 3.45 p.m. Mestering Google Sheets: Web scraping, running scripts and other tricks (Thursday) 215 - 3.45 p.m. Mestering Google Sheets: Web scraping, running scripts and other tricks (Thursday) 215 - 3.45 p.m. Python 2: Intro to data analysis using Pandas 230 - 4.30 p.m. Python 2: Intro to data analysis using Pandas 230 - 4.30 p.m. Pinding dark money in the 2020 elections 230 - 4.30 p.m. Uncleaked: Flight tracking for investigating people, planes and patterns 230 - 4.30 p.m. Tracking dark money in the 2020 elections 230 - 4.30 p.m. Datakit: Workflow automation for the newsroom and classroom Galerie 3. 2nd floor 230 - 4.30 p.m. Investigating bioss From housing to policing 230 - 4.30 p.m. International year in CAR 230 p.m. Verificially and place in CAR 230 p.m. Verificially and	12:45 - 2 p.m.	Journalists of color in the newsroom meetup	Carondelet, 3rd floor
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235 - 5.45 p.m. Moster class. Statistics for journalists 236 - 5.35 p.m. Free and easy data viz 237 - 338 p.m. R: Intro to R and RStudio 238 - 338 p.m. Python I: The fundamentals 238 - 338 p.m. Python I: The fundamentals 239 - 339 p.m. Python I: The fundamentals 230 - 335 p.m. Python I: The fundamentals 231 - 335 p.m. Python I: The fundamentals 232 - 335 p.m. Python I: The fundamentals 233 p.m. Campaign finance questions people ask plus yours! 234 - 335 p.m. Campaign finance questions people ask plus yours! 235 - 335 p.m. Vear in CAR: Local innovation 235 - 335 p.m. Vear in CAR: Local innovation 235 - 335 p.m. Mentoring for disversity and inclusion 235 - 335 p.m. Mentoring for disversity and inclusion 235 - 335 p.m. Pinding and researching international connection 236 - 335 p.m. Mostering Google Sheets: Web scraping, running scripts and other tricks (Thursday) 236 - 330 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 2: Intro to data analysis using Pandas 230 - 430 p.m. Python 3: Data (Eight tracking for investigating people, planes and patterns 230 - 430 p.m. Python 3: Data (Eight tracking for investigating people, planes and patterns 230 - 430 p.m. Python 3: Data (Eight tracking for investigating people, planes and patterns 230 - 430 p.m. Python 3: Data (Eight tracking for investigating people, planes and patterns 230 - 430 p.m. Python 3: Data (Eight tracking for investigating people, planes and patterns 230 - 430 p.m. Python 3: Data (Eight	2:15 - 5:45 p.m.	Introduction to web development (pre-registration required)	Studio 9, 2nd floor
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Excel: Advanced pivot tables  Excel: Advanced pivot tables  R 1: Intro to R and R Studio  215 - 315 p.m.  R 1: Intro to R and R Studio  215 - 315 p.m.  Python 1: The fundamentals  Studio 7, 2nd floor  215 - 315 p.m.  Finding the story: Using DNS search for investigative journalism  Studio 1, 2nd floor  215 - 315 p.m.  Campaign finance questions people ask plus yours!  Galerie 4, 2nd floor  215 - 315 p.m.  Using open crime and policing data  Galerie 3, 2nd floor  215 - 315 p.m.  Vear in CAR: Local innovation  Acadia, 3rd floor  215 - 315 p.m.  Mentoring for diversity and inclusion  Bissonet, 3rd floor  215 - 315 p.m.  Finding and researching international connection  Galerie 6, 2nd floor  215 - 315 p.m.  R 2: Data analysis and platting  Studio 7, 2nd floor  330 - 4:30 p.m.  Python 2: Intro to data analysis using Pandas  Studio 6, 2nd floor  330 - 4:30 p.m.  DDF 1: How to extract text and tables from PDFs like a boss  Studio 8, 2nd floor  330 - 4:30 p.m.  Uncloaked: Flight tracking for investigating people, planes and patterns  Galerie 2, 2nd floor  330 - 4:30 p.m.  Investigating bias: From housing to policing  330 - 4:30 p.m.  DataKit: Workflow automation for the newsroom and classroom  Galerie 3, 2nd floor  330 - 4:30 p.m.  A demo of the Big Local News platform  Galerie 4, 2nd floor  330 - 4:30 p.m.  R 3: Gathering and cleaning and visualization  445 - 5:45 p.m.  R 3: Gathering and cleaning and visualization  Finding the story: Campaign finance  445 - 5:45 p.m.  Finding the story: Campaign finance  Galerie 5, 2nd floor  Studio 6, 2nd floor  Studio 7, 2nd floor  Studio 7, 2nd floor  Studio 7, 2nd floor  Studio 8, 2nd floor  Studio 8, 2nd floor  Studio 8, 2nd floor  Studio 8, 2nd floor  346 - 5:45 p.m.  Finding the story: Campaign finance  Countdown to the big count. Getting ready for Census 2020  Acadia, 3rd floor  Galerie 2, 2nd floor  Galerie 3, 2nd floor  Advanced data journalism: From Idea to publication  Galerie 6, 2nd floor	2:15 - 5:45 p.m.	Master class: Statistics for journalists	Galerie 5, 2nd floor
235 - 3315 p.m. Python 1: The fundamentals Studio 7, 2nd floor 235 - 3315 p.m. Python 1: The fundamentals Studio 6, 2nd floor 235 - 3315 p.m. Finding the story; Using DNS search for investigative journalism Studio 1, 2nd floor 235 - 3315 p.m. Campaign finance questions people ask plus yours! Galerie 4, 2nd floor 235 - 3315 p.m. Using open crime and policing data Acadia, 3rd floor 235 - 3315 p.m. Vear in CAR: Local innovation Acadia, 3rd floor 235 - 3315 p.m. White properties and policing data Start Python 2: Introduction Bissonet, 3rd floor 235 - 3315 p.m. Mentoring for diversity and inclusion Galerie 4, 2nd floor 235 - 3315 p.m. Finding and researching international connection Galerie 4, 2nd floor 235 - 3315 p.m. Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) Studio 10, 2nd floor 235 - 5:45 p.m. Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) Studio 7, 2nd floor 236 - 4:30 p.m. Python 2: Intro to data analysis using Pandas Studio 6, 2nd floor 230 - 4:30 p.m. Python 2: Intro to data analysis using Pandas Studio 6, 2nd floor 230 - 4:30 p.m. Uncloaked: Flight tracking for investigating people, planes and patterns Galerie 2, 2nd floor 230 - 4:30 p.m. Uncloaked: Flight tracking for investigating people, planes and patterns Galerie 2, 2nd floor 230 - 4:30 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 230 - 4:30 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 230 - 4:30 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 230 - 4:30 p.m. International year in CAR Galerie 4, 2nd floor 230 - 4:30 p.m. International year in CAR Galerie 4, 2nd floor 230 - 4:30 p.m. International year in CAR Galerie 4, 2nd floor 24:45 - 5:45 p.m. Python 3: Data cleaning and visualization Studio 3, 2nd floor 24:45 - 5:45 p.m. Python 3: Data cleaning and visualization Studio 3, 2nd floor 24:45 - 5:45 p.m. Python 3: Data cleaning and visualization Acadia, 3rd floor 24:45 - 5:45 p.m. Encryption and journalism: Fr	2:15 - 3:15 p.m.	Free and easy data viz	Galerie 2, 2nd floor
235 - 335 p.m. Python 1: The fundamentals Studio 6, 2nd floor 235 - 335 p.m. Finding the story; Using DNS search for investigative journalism Studio 1, 2nd floor 235 - 335 p.m. Campaign finance questions people ask plus yours! Galerie 4, 2nd floor 235 - 335 p.m. Using open crime and policing data Galerie 3, 2nd floor 235 - 335 p.m. Vear in CAR: Local innovation Acadia, 3rd floor 235 - 335 p.m. When the finding and researching international connection Bissonet, 3rd floor 235 - 335 p.m. Finding and researching international connection Galerie 6, 2nd floor 235 - 535 p.m. Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) Studio 10, 2nd floor 235 - 535 p.m. R 2: Data analysis and plotting Studio 7, 2nd floor 236 - 4350 p.m. Python 2: Intro to data analysis using Pandas Studio 6, 2nd floor 236 - 4350 p.m. PDF 1: How to extract text and tables from PDFs like a boss Studio 6, 2nd floor 236 - 4350 p.m. Uncloaked: Flight tracking for investigating people, planes and patterns Galerie 2, 2nd floor 237 - 4350 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 238 - 4350 p.m. DataKit: Workflow automation for the newsroom and classroom Galerie 3, 2nd floor 239 - 4350 p.m. DataKit: Workflow automation for the newsroom and classroom Galerie 3, 2nd floor 230 - 4350 p.m. International year in CAR Galerie 4, 2nd floor 230 - 4350 p.m. Scrollytelling" with Mapbox (repeat) 230 - 4350 p.m. Python 3: Data cleaning and visualization 2310 - 435 p.m. Python 3: Data cleaning and visualization 2320 - 435 p.m. Python 3: Data cleaning and visualization 2330 - 435 p.m. Finding the story: Campaign finance 2330 - 435 p.m. Encryption and journalism: From idea to publication 23445 - 545 p.m. Encryption and journalism: From idea to publication 2445 - 545 p.m. Advanced data journalism through a browser	2:15 - 3:15 p.m.	Excel: Advanced pivot tables	Studio 8, 2nd floor
215 - 315 p.m. Finding the story; Using DNS search for investigative journalism Studio 1, 2nd floor 215 - 315 p.m. Campaign finance questions people ask plus yours! Galerie 4, 2nd floor 215 - 315 p.m. Using open crime and policing data Galerie 3, 2nd floor 215 - 315 p.m. Year in CAR: Local innovation Acadia, 3rd floor 215 - 315 p.m. Mentoring for diversity and inclusion Bissonet, 3rd floor 215 - 315 p.m. Finding and researching international connection Galerie 4, 2nd floor 215 - 315 p.m. Finding and researching international connection Galerie 4, 2nd floor 215 - 515 p.m. Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) Studio 10, 2nd floor 330 - 4130 p.m. R 2: Data analysis and plotting Studio 7, 2nd floor 3430 p.m. Python 2: Intro to data analysis using Pandas Studio 6, 2nd floor 330 - 4130 p.m. PDF 1: How to extract text and tables from PDFs like a boss Studio 8, 2nd floor 3430 p.m. Uncloaked: Flight tracking for investigating people, planes and patterns Galerie 2, 2nd floor 3400 p.m. Irracking dark money in the 2020 elections Bissonet, 3rd floor 3400 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 3400 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 3400 p.m. DataKit: Workflow automation for the newsroom and classroom Galerie 3, 2nd floor 3400 p.m. International year in CAR Galerie 4, 2nd floor 3400 p.m. Scrollytelling* with Mapbox (repeat) Studio 7, 2nd floor 3415 p.m. Python 3: Data cleaning and visualization Studio 7, 2nd floor 4415 - 5415 p.m. Python 3: Data cleaning and visualization Studio 8, 2nd floor 4415 - 5415 p.m. Python 3: Data cleaning and visualization Galerie 4, 2nd floor 4415 - 5415 p.m. Finding the story: Campaign finance Countdown to the big count: Getting ready for Census 2020 Acadia, 3rd floor Galerie 3, 2nd floor 4415 - 5415 p.m. Encryption and journalism: From idea to publication Galerie 3, 2nd floor	2:15 - 3:15 p.m.	R 1: Intro to R and RStudio	Studio 7, 2nd floor
215 - 315 p.m. Campaign finance questions people ask plus yours! Galerie 4, 2nd floor 215 - 315 p.m. Using open crime and policing data Galerie 3, 2nd floor 215 - 315 p.m. Year in CAR: Local innovation Acadia, 3rd floor 215 - 315 p.m. Mentoring for diversity and inclusion Bissonet, 3rd floor 215 - 315 p.m. Finding and researching international connection Galerie 6, 2nd floor 215 - 5:45 p.m. Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) Studio 10, 2nd floor 230 - 4:30 p.m. R 2: Data analysis and plotting Studio 7, 2nd floor 330 - 4:30 p.m. Python 2: Intro to data analysis using Pandas Studio 6, 2nd floor 330 - 4:30 p.m. PDF 1: How to extract text and tables from PDFs like a boss Studio 8, 2nd floor 330 - 4:30 p.m. Uncloaked: Flight tracking for investigating people, planes and patterns Galerie 2, 2nd floor 330 - 4:30 p.m. Tracking dark money in the 2020 elections Bissonet, 3rd floor 330 - 4:30 p.m. Investigating bias: From housing to policing Acadia, 3rd floor 330 - 4:30 p.m. DataKit: Workflow automation for the newsroom and classroom Galerie 3, 2nd floor 330 - 4:30 p.m. International year in CAR Galerie 4, 2nd floor 330 - 4:30 p.m. International year in CAR Galerie 6, 2nd floor 330 - 4:30 p.m. Python 3: Data cleaning and visualization Studio 6, 2nd floor 3445 - 5:45 p.m. Python 3: Data cleaning and visualization Studio 6, 2nd floor 4:45 - 5:45 p.m. Python 3: Data cleaning and visualization Galerie 3, 2nd floor 4:45 - 5:45 p.m. Finding the story: Campaign finance 4:45 - 5:45 p.m. Encryption and journalism: From idea to publication Galerie 3, 2nd floor	2:15 - 3:15 p.m.	Python 1: The fundamentals	Studio 6, 2nd floor
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215 - 315 p.m. Mentoring for diversity and inclusion Galerie 6, 2nd floor 215 - 315 p.m. Finding and researching international connection Galerie 6, 2nd floor 215 - 545 p.m. Mastering Google Sheets: Web scraping, running scripts and other tricks (Thursday) Studio 10, 2nd floor 3:30 - 4:30 p.m. R 2: Data analysis and plotting Studio 6, 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. R 3: Gathering and cleaning data Studio 7, 2nd floor Studio 7, 2nd floor 3:445 - 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 Galerie 3, 2nd floor	2:15 - 3:15 p.m.	Using open crime and policing data	Galerie 3, 2nd floor
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3:30 - 4:30 p.m. A demo of the Big Local News platform  3:30 - 4:30 p.m. International year in CAR  Galerie 6, 2nd floor  3:30 - 4:30 p.m. "Scrollytelling" with Mapbox (repeat)  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  4:45 - 5:45 p.m. Finding the story: Campaign finance  4:45 - 5:45 p.m. Countdown to the big count: Getting ready for Census 2020  4:45 - 5:45 p.m. Encryption and journalism: From idea to publication  4:45 - 5:45 p.m. Advanced data journalism through a browser  Galerie 6, 2nd floor	3:30 - 4:30 p.m.	Investigating bias: From housing to policing	Acadia, 3rd floor
3:30 - 4:30 p.m. International year in CAR  3:30 - 4:30 p.m. "Scrollytelling" with Mapbox (repeat)  4:45 - 5:45 p.m. R 3: Gathering and cleaning data  4:45 - 5:45 p.m. Python 3: Data cleaning and visualization  4:45 - 5:45 p.m. Finding the story: Campaign finance  4:45 - 5:45 p.m. Countdown to the big count: Getting ready for Census 2020  4:45 - 5:45 p.m. Encryption and journalism: From idea to publication  4:45 - 5:45 p.m. Advanced data journalism through a browser  Galerie 6, 2nd 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. "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 4:45 – 5:45 p.m. Advanced data journalism through a browser Galerie 6, 2nd floor	3:30 - 4:30 p.m.	A demo of the Big Local News platform	Galerie 4, 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 4:45 - 5:45 p.m. Advanced data journalism through a browser Galerie 6, 2nd floor	3:30 - 4:30 p.m.	International year in CAR	Galerie 6, 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 4:45 – 5:45 p.m. Advanced data journalism through a browser Galerie 6, 2nd floor	3:30 - 4:30 p.m.	"Scrollytelling" with Mapbox (repeat)	Studio 1, 2nd floor
4:45 - 5:45 p.m.Finding the story: Campaign financeStudio 8, 2nd floor4:45 - 5:45 p.m.Countdown to the big count: Getting ready for Census 2020Acadia, 3rd floor4:45 - 5:45 p.m.Encryption and journalism: From idea to publicationGalerie 3, 2nd floor4:45 - 5:45 p.m.Advanced data journalism through a browserGalerie 6, 2nd floor	4:45 - 5:45 p.m.	R 3: Gathering and cleaning data	Studio 7, 2nd floor
4:45 – 5:45 p.m.Countdown to the big count: Getting ready for Census 2020Acadia, 3rd floor4:45 – 5:45 p.m.Encryption and journalism: From idea to publicationGalerie 3, 2nd floor4:45 – 5:45 p.m.Advanced data journalism through a browserGalerie 6, 2nd floor	4:45 - 5:45 p.m.	Python 3: Data cleaning and visualization	Studio 6, 2nd floor
4:45 – 5:45 p.m. Encryption and journalism: From idea to publication Galerie 3, 2nd floor 4:45 – 5:45 p.m. Advanced data journalism through a browser Galerie 6, 2nd floor	4:45 - 5:45 p.m.	Finding the story: Campaign finance	Studio 8, 2nd floor
4:45 – 5:45 p.m. Advanced data journalism through a browser Galerie 6, 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
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.	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

Time	Session	Room
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 - Group A (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
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.	JavaScript 3: Making a map in D3	Studio 9, 2nd floor

Time	Session	Room
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
4:45 - 5:45 p.m.	Excel 3: Filtering & pivot tables (repeat)	Studio 8, 2nd floor
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
		Studio 3, 2nd floor

Time	Session	Room
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	Acadia, 3rd 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 - Group A (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
) – 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)	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
O: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
0:15 - 11:15 a.m.	Unpacking Al's influence in your community	Galerie 2, 2nd floor
10:15 - 11:15 a.m.	Introducing and implementing security protocols in your newsroom	Galerie 4, 2nd floor
1:30 a.m 12:30 p.m.	Building and telling a bulletproof data story	Galerie 3, 2nd floor
11:30 a.m. – 12:30 p.m.	Reasoning for data visualization	Bissonet, 3rd floor

1130 n.m 1230 p.m.         Beyond formulas A statistical world view         Goderie a, 2nd floor           1130 n.m 1230 p.m.         Beyond formulas A statistical world view         Statio a, 2nd floor           1130 n.m 1230 p.m.         Art of the interview         Goderie a, 2nd floor           1130 n.m 1230 p.m.         Finding data for local investigations         Acadia, 3nd floor           1130 n.m 1230 p.m.         Master your data with Power Overy for Excel and Power Bl         Studio 12, 2nd floor           1130 n.m 1230 p.m.         Mester your data with Day Gree-registration required)         Studio 9, 2nd floor           215 - 545 p.m.         Interactive data viz with D3 (pre-registration required)         Studio 9, 2nd floor           215 - 545 p.m.         Mester class Interviewing         Goderie 2, 2nd floor           215 - 315 p.m.         Excell Importing data (repeat)         Studio 8, 2nd floor           215 - 315 p.m.         SQL is Exploring data (repeat)         Studio 10, 2nd floor           215 - 315 p.m.         Protical machine learning for investigations with fast,al (Saturday afternoon) (pre- gibration required)         Studio 10, 2nd floor           215 - 315 p.m.         Protical machine learning for investigations with fast,al (Saturday afternoon) (pre- gibration required)         Studio 2, 2nd floor           215 - 315 p.m.         Protical machine learning for investigations with fast,al (saturday afternoon)	Time	Session	Room
11.30 a.m 12.30 p.m.     Midding graphics with R (repeat)     Studio 8, 2nd floor       11.30 a.m 12.30 p.m.     Art of the interview     Galerie 2, 2nd floor       11.30 a.m 12.30 p.m.     Finding dato for local investigations     Acadia, 3rd 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.     Interactive data viz with D3 (pre-registration required)     Studio 2, 2nd floor       215 - 5.45 p.m.     Master class Interviewing     Galerie 2, 2nd floor       215 - 5.45 p.m.     Research gumbor Redux     Galerie 3, 2nd floor       215 - 5.45 p.m.     Research gumbor Redux     Studio 2, 2nd floor       215 - 5.45 p.m.     Studio 10, 2nd floor     Studio 2, 2nd floor       215 - 5.45 p.m.     Studio 2, 2nd floor     Studio 2, 2nd floor       215 - 5.45 p.m.     Studio 2, 2nd floor     Studio 2, 2nd floor       215 - 5.45 p.m.     Tracking acceptance of the perting for investigations with fast all (Saturday afternoon) (pre-registration required)     Studio 2, 2nd floor       215 - 5.45 p.m.     Using exkit to wrangle data without Excel     Studio 2, 2nd floor       215 - 5.35 p.m.     Tracking 2020 digital ods. Learn the secrets of new political od databases     Galerie 2, 2nd floor       215 - 5.35 p.m.     The life of a data story: Going from data to norrative     Acadia, 3rd floor       215 - 5.35 p.m.	11:30 a.m 12:30 p.m.	Text mining in R with tidytext	Studio 6, 2nd floor
113.0s a.m 123.0s p.m.         Art of the interview         Golerie 2, 2nd floor           113.0s a.m 123.0s p.m.         Finding data for local investigations         Acadia, 3rd floor           113.0s a.m 123.0s p.m.         Master your data with Power Query for Excel and Power BI         Studio 10, 2nd floor           113.0s a.m 123.0s p.m.         Public Accountability project         Golerie 4, 2nd floor           215 - 545 p.m.         Interactive data viewith DS (pre-registration required)         Studio 9, 2nd floor           215 - 545 p.m.         Research genubo: Redux         Golerie 5, 2nd floor           215 - 345 p.m.         Excell importing data         Studio 8, 2nd floor           215 - 345 p.m.         SQL is Exploring data (repeat)         Studio 2, 2nd floor           215 - 545 p.m.         R intro to R and RStudio (repeat)         Studio 2, 2nd floor           215 - 545 p.m.         Practical machine learning for investigations with fast al (Saturday afternoon) (pre-         Studio 2, 2nd floor           215 - 545 p.m.         Using cawlit to wrongle data without Excel         Studio 6, 2nd floor           215 - 345 p.m.         Tracking 2020 digital odds Learn the secrets of new political ad databases         Golerie 2, 2nd floor           215 - 345 p.m.         The life of a data story: Going from data to narrative         Acadia, 3rd floor           215 - 345 p.m.         Finding th	11:30 a.m 12:30 p.m.	Beyond formulas: A statistical world view	Galerie 6, 2nd floor
113.00 c.m 123.00 p.m.         Finding data for local investigations         Acadia. 3rd floor           113.00 c.m 123.00 p.m.         Master your data with Power Query for Excel and Power BI         Studio 10, 2nd floor           113.00 c.m 123.00 p.m.         Public Accountability project         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 4. 2nd floor           215 - 5.45 p.m.         Research gumbo: Redux         Galerie 4. 2nd floor           215 - 315 p.m.         Excel: Importing data         Studio 8. 2nd floor           215 - 315 p.m.         R. Intro to R and RStudio (repeat)         Studio 10. 2nd floor           215 - 5145 p.m.         Practical machine learning for investigations with fast.ai (Saturday efternaon) (pre-registration required)         Studio 2. 2nd floor           215 - 5145 p.m.         Practical machine learning for investigations with fast.ai (Saturday efternaon) (pre-registration required)         Studio 2. 2nd floor           215 - 5145 p.m.         Practical machine learning for investigations with fast.ai (Saturday efternaon) (pre-registration required)         Studio 2. 2nd floor           215 - 315 p.m.         Practical machine learning for investigations with fast.ai (Saturday efternaon) (pre-registration required)         Studio 2. 2nd floor           21	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 Overy for Excel and Power BI Studio 10, 2nd floor 11:30 a.m 12:30 p.m. Public Accounte bility project Gelerie 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 Gelerie 5, 2nd floor 215 - 5:45 p.m. Research gumbon Redux Gelerie 6, 2nd floor 215 - 3:45 p.m. Excel Importing data (repeat) Studio 8, 2nd floor 215 - 3:45 p.m. SQL 1: Exploring data (repeat) Studio 8, 2nd floor 215 - 3:45 p.m. SQL 1: Exploring data (repeat) Studio 10, 2nd floor 215 - 3:45 p.m. Ru Intro to R and R Studio (repeat) Studio 10, 2nd floor 215 - 3:45 p.m. Ru Intro to R and R Studio (repeat) Studio 10, 2nd floor 215 - 3:45 p.m. Using cavitit to wrangle data without Excel Studio 3, 2nd floor 215 - 3:45 p.m. Tracking 2020 digital data. Learn the secrets of new political ad databases Gelerie 2, 2nd floor 215 - 3:45 p.m. The life of a data story; Gening from data to narrative Acadia, 3rd floor 215 - 3:45 p.m. Being scrappy; Doing data journalism as a team of one Gelerie 4, 2nd floor 215 - 3:45 p.m. Excel CARwash; Cleaning dirty data Studio 8, 2nd floor 3:40 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) Studio 3, 2nd floor 3:40 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) Studio 8, 2nd floor 3:40 - 4:30 p.m. Ru Leading the data team Gelerie 4, 2nd floor 3:40 - 4:30 p.m. How to build a live data-driven application that never crashes Studio 8, 2nd floor 3:40 - 4:30 p.m. How to make data findings come to life on radio Gelerie 4, 2nd floor 3:40 - 4:30 p.m. How to make data findings come to life on radio Gelerie 4, 2nd floor 3:40 - 4:30 p.m. How to make data findings come to life on radio Gelerie 4, 2nd floor 3:40 - 4:30 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 3:40 p.m. Excel Using strip functions to manipulate data Sudio 8, 2nd floor 4:45 - 5:45 p.m. SQL 3: Joining tables (repeat) Studio 10, 2nd floor 3:40 p.m. Spiral security hygiene and threat model	11:30 a.m 12:30 p.m.	Art of the interview	Galerie 2, 2nd floor
1130 a.m 1230 p.m. Interactive data viz with D3 (pre-registration required) 215 - 5:45 p.m. Interactive data viz with D3 (pre-registration required) 215 - 5:45 p.m. Moster class: Interviewing 216 - 5:45 p.m. Research gumbor, Redux 217 - 3:45 p.m. Excel. Importing data 218 - 3:45 p.m. SQL \( \text{Exploring data} \) Studio 8, 2nd floor 218 - 3:45 p.m. SQL \( \text{Exploring data} \) Studio 8, 2nd floor 218 - 3:45 p.m. SQL \( \text{Exploring data} \) Studio 10, 2nd floor 215 - 3:45 p.m. SQL \( \text{Exploring data} \) Studio 10, 2nd floor 215 - 3:45 p.m. Retain the to R and RStudio (repeat) 215 - 5:45 p.m. Practical machine learning for investigations with fast.ai (Saturday afternoon) (pre-registration required) 215 - 3:45 p.m. Using cavkit to wrangle data without Excel 216 - 3:45 p.m. Tracking 2020 digital ads. Learn the secrets of new political ad databases 218 - 3:45 p.m. Tracking 2020 digital ads. Learn the secrets of new political ad databases 218 - 3:45 p.m. The life of a data story. Going from data to narrative 219 - 3:45 p.m. Being scroppy. Doing data journalism as a team of one 219 - 3:45 p.m. Finding the story in property records 210 - 3:30 p.m. Excel CARwash: Cleaning dirty data 210 - 4:30 p.m. SQL \( 2 \) Crouping and summing data (repeat) 210 - 4:30 p.m. Retain analysis and plotting (repeat) 211 - 3:40 p.m. Retain analysis and plotting (repeat) 212 - 3:40 p.m. How to build a live data driven application that never crashes 219 - 4:30 p.m. How to squeeze court records to get the most juice 230 - 4:30 p.m. Digital security hygiene and threat modeling for journalists 230 - 4:30 p.m. Digital security hygiene and threat modeling for journalists 230 - 4:30 p.m. Finding the story: Campaign finance (repeat) 244 - 5:45 p.m. SQL 3. Joining tables (repeat) 245 - 5:45 p.m. SQL 3. Joining tables (repeat) 246 - 5:45 p.m. Signification on deleaning data (repeat) 247 - 5:45 p.m. Signification on deleaning data (repeat) 248 - 5:45 p.m. Slightering and cleaning data (repeat) 249 - 5:45 p.m. Slightering and cleaning	11:30 a.m 12:30 p.m.	Finding data for local investigations	Acadia, 3rd floor
215 - 5:45 p.m. Interactive date viz with 03 (pre-registration required) 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. Excel: Importing data 215 - 3:45 p.m. SQL 1: Exploring data (repeat) 215 - 3:45 p.m. SQL 1: Exploring data (repeat) 215 - 3:45 p.m. R 1: Intro to R and RStudio (repeat) 215 - 3:45 p.m. R 1: Intro to R and RStudio (repeat) 215 - 3:45 p.m. Practical machine learning for investigations with fast, ai (Saturday afternoon) (pre-registration required) 215 - 3:45 p.m. Using caskit to wrangle data without Excel Studio 6, 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. Being scrappy: Doing data journalism as a team of one Galerie 4, 2nd floor 215 - 3:45 p.m. Finding the story in property records Bissonet, 3rd floor 215 - 3:45 p.m. Excel CARwash: Cleaning dirty data 230 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) 230 - 4:30 p.m. R 2: Data analysis and plotting (repeat) 231 - 4:30 p.m. How to build a live data-driven application that never crashes 230 - 4:30 p.m. How to build a live data-driven application that never crashes 230 - 4:30 p.m. How to squeeze court records to get the most juice 230 - 4:30 p.m. Digital security hygiene and threat modeling for journalists 330 - 4:30 p.m. Digital security hygiene and threat modeling for journalists 330 - 4:30 p.m. Finding the story: Campaign finance (repeat) 2445 - 5:45 p.m. Excel Using string functions to manipulate data 245 - 5:45 p.m. R 3: Gathering and cleaning data (repeat) 246 - 5:45 p.m. Bringing data journalism to your student newsroom 246 - 5:45 p.m. Bringing data journalism to your student newsroom 246 - 5:45 p.m. Bringing data journalism to your student newsroom 246 - 5:45 p.m. Using IRS nonprofit data and decoding 990s	11:30 a.m 12:30 p.m.	Master your data with Power Query for Excel and Power BI	Studio 10, 2nd floor
215 - 345 p.m. Research gumbo: Redux Galerie S. 2nd floor 215 - 345 p.m. Research gumbo: Redux Studio 8, 2nd floor 215 - 345 p.m. Excel Importing data Studio 102 and floor 215 - 345 p.m. SQL 1: Exploring data (repeat) Studio 102 and floor 215 - 345 p.m. R 1: Intro to R and R Studio (repeat) Studio 2 and floor 215 - 345 p.m. R 1: Intro to R and R Studio (repeat) Studio 3 and floor 215 - 345 p.m. R 1: Intro to R and R Studio (repeat) Studio 3 and floor 215 - 345 p.m. Using cavkit to wrangle data without Excel Studio 4 and floor 215 - 345 p.m. Tracking 2020 digital ads Learn the secrets of new political ad databases Galerie 2, 2nd floor 215 - 345 p.m. The life of a data story: Going from data to narrative Acadia, 3rd floor 215 - 345 p.m. Being scrappy: Doing data journalism as a team of one Galerie 4. 2nd floor 215 - 345 p.m. Finding the story in property records Bissonet, 3rd floor 330 - 4:30 p.m. Excel CARwash: Cleaning dirty data Studio 5 and 9 p.m. SQL 2: Grouping and summing data (repeat) Studio 5 and floor 340 - 4:30 p.m. R 2: Data analysis and plotting (repeat) Studio 5 and floor 340 - 4:30 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 350 - 4:30 p.m. How to make data findings come to life on radio Galerie 2, 2nd floor 360 - 4:30 p.m. How to make data findings come to life on radio Galerie 2, 2nd floor 360 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 360 - 4:30 p.m. Finding the story: Campaign finance (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SQL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SQL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SQL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SQL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SQL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SQL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SqL 3. Joining tables (repeat) Studio 8, 2nd floor 360 - 4:45 p.m. SqL 3. Joinin	11:30 a.m 12:30 p.m.	Public Accountability project	Galerie 4, 2nd floor
215 - 315 p.m. Research gumbo: Redux Studio 8, 2nd floor 215 - 315 p.m. Excel: Importing data Studio 8, 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 R Studio (repeat) Studio 2, 2nd floor 215 - 315 p.m. R 1: Intro to R and R Studio (repeat) Studio 3, 2nd floor 215 - 315 p.m. Practical machine learning for investigations with fost.ci (Saturday ofternoon) (presegistration required) Studio 2, 2nd floor 215 - 315 p.m. Using cavkit to wrangle data without Excel Studio 4, 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. Excel CARwash: Cleaning dirty data Size p.m. SQL 2: Grouping and summing data (repeat) Studio 8, 2nd floor 330 - 430 p.m. SQL 2: Grouping and summing data (repeat) Studio 10, 2nd floor 330 - 430 p.m. R 2: Data analysis and plotting (repeat) Studio 2, 2nd floor 330 - 430 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 330 - 430 p.m. How to make data findings come to life on radio Galerie 2, 2nd floor 330 - 430 p.m. How to make data findings come to life on radio Galerie 2, 2nd floor 330 - 430 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 340 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 445 - 545 p.m. Excel. Using string functions to manipulate data Studio 8, 2nd floor 445 - 545 p.m. SQL 3. Joining tables (repeat) Studio 2, 2nd floor 445 - 545 p.m. R 3: Gathering and cleaning data (repeat) Studio 2, 2nd floor 445 - 545 p.m. SQL 3. Joining tables (repeat) Studio 2, 2nd floor 445 - 545 p.m. SQL 3. Joining tables (repeat)	2:15 - 5:45 p.m.	Interactive data viz with D3 (pre-registration required)	Studio 9, 2nd floor
215 - 315 p.m. SQL 1: Exploring data (repeat) Studio 8, 2nd floor 215 - 315 p.m. QR 1: Intro to R and RStudio (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. Proctical machine learning for investigations with fast ai (Saturday afternoon) (preregistration required) Studio 1, 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 scroppy: 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 330 - 430 p.m. Excel CARwash: Cleaning dirty data Studio 8, 2nd floor 3400 p.m. SQL 2: Grouping and summing data (repeat) Studio 10, 2nd floor 330 - 430 p.m. R 2: Data analysis and plotting (repeat) Studio 2, 2nd floor 330 - 430 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 330 - 430 p.m. How to make data findings come to life on radio Galerie 4, 2nd floor 330 - 430 p.m. Leading the data team Galerie 4, 2nd floor 330 - 430 p.m. How to make data findings come to life on radio Galerie 4, 2nd floor 330 - 430 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 330 - 430 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 340 p.m. Finding the story: Compaign finance (repeat) Studio 8, 2nd floor 445 - 545 p.m. Excel. Using string functions to manipulate data Studio 8, 2nd floor 445 - 545 p.m. R 3: Gathering and cleaning data (repeat) Studio 10, 2nd floor 445 - 545 p.m. Bringing data journalism to your student newsroom Galerie 4, 2nd floor 445 - 545 p.m. Using IRS nanprofit data and decoding 990s	2:15 - 5:45 p.m.	Master class: Interviewing	Galerie 5, 2nd floor
215 - 315 p.m. Proctical machine learning for investigations with fast ai (Saturday afternoon) (preregistration required)  215 - 545 p.m. Proctical machine learning for investigations with fast ai (Saturday afternoon) (preregistration required)  215 - 545 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 Bissonet, 3rd floor  215 - 315 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 4, 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. How to squeeze court records to get the most juice Acadia, 3rd 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 - 4:50 p.m. Excel. Using string functions to manipulate data  5tudio 8, 2nd floor  4:45 - 5:45 p.m. SQL 3: Joining tables (repeat)  5tudio 10, 2nd floor  4:45 - 5:45 p.m. R 3: Gathering and cleaning data (repeat)  5tudio 2, 2nd floor  4:45 - 5:45 p.m. Bringing data journalism to your student newsroom  Galerie 4, 2nd floor	2:15 - 3:15 p.m.	Research gumbo: Redux	Galerie 6, 2nd floor
215 - 315 p.m. R: Intro to R and RStudio (repeat)  215 - 5:45 p.m. Practical machine learning for investigations with fast.ai (Saturday afternoon) (preregistration required)  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 Golerie 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. Being scrappy: Doing data journalism as a team of one Golerie 4, 2nd floor  215 - 3:45 p.m. Finding the story in property records Bissonet, 3rd floor  215 - 3:45 p.m. Finding the story in property records  3:30 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) 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 build a live data-driven application that never crashes Studio 4, 2nd floor  3:30 - 4:30 p.m. Leading the data team Galerie 2, 2nd floor  3:30 - 4:30 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor  3:30 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor  3:30 - 4:30 p.m. Excel: Using string functions to manipulate data  3:30 - 4:30 p.m. Excel: Using string functions to manipulate data  5:10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	2:15 - 3:15 p.m.	Excel: Importing data	Studio 8, 2nd floor
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 Bissonet, 3rd floor  215 - 315 p.m. Finding the story in property records Bissonet, 3rd floor  330 - 430 p.m. SQL 2: Grouping and summing data (repeat) Studio 8, 2nd floor  330 - 430 p.m. R 2: Data analysis and plotting (repeat) Studio 2, 2nd floor  330 - 430 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor  330 - 430 p.m. How to make data findings come to life on radio Galerie 2, 2nd floor  330 - 430 p.m. Leading the data team Galeria 2, 2nd floor  330 - 430 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor  330 - 430 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor  330 - 430 p.m. Excel. Using string functions to manipulate data  Studio 2, 2nd floor  340 - 445 - 545 p.m. SQL 3: Joining tables (repeat) Studio 2, 2nd floor  530 - 455 p.m. SQL 3: Joining tables (repeat) Studio 2, 2nd floor  445 - 545 p.m. Bringing data journalism to your student newsroom Galerie 4, 2nd floor	2:15 - 3:15 p.m.	SQL 1: Exploring data (repeat)	Studio 10, 2nd floor
registration 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  Bissonet, 3rd floor  330 - 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 2, 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.  Leading the data team  Galerie 2, 2nd floor  330 - 4:30 p.m.  How to squeeze court records to get the most juice  Acadia, 3rd floor  330 - 4:30 p.m.  Digital security hygiene and threat modeling for journalists  Bissonet, 3rd floor  3:30 - 4:30 p.m.  Finding the story: Campaign finance (repeat)  Studio 4, 2nd floor  3:30 - 4:30 p.m.  Excel: Using string functions to manipulate data  Studio 8, 2nd floor  3:445 - 5:45 p.m.  Excel: Using string functions to manipulate data  Studio 8, 2nd floor  4:45 - 5:45 p.m.  R 3: Gathering and cleaning data (repeat)  Studio 2, 2nd floor  4:45 - 5:45 p.m.  Bringing data journalism to your student newsroom  Galerie 4, 2nd floor  6:445 - 5:45 p.m.  Using IRS nonprofit data and decoding 990s  Bissonet, 3rd floor  Galerie 2, 2nd floor	2:15 - 3:15 p.m.	R 1: Intro to R and RStudio (repeat)	Studio 2, 2nd floor
235 - 335 p.m. Tracking 2020 digital ads: Learn the secrets of new political ad databases Galerie 2, 2nd floor 235 - 335 p.m. The life of a data story: Going from data to narrative Acadia, 3rd floor 235 - 335 p.m. Being scrappy: Doing data journalism as a team of one Galerie 4, 2nd floor 235 - 335 p.m. Finding the story in property records Bissonet, 3rd floor 230 - 430 p.m. Excel CARwash: Cleaning dirty data Studio 8, 2nd floor 230 - 430 p.m. SQL 2: Grouping and summing data (repeat) Studio 10, 2nd floor 230 - 430 p.m. R 2: Data analysis and plotting (repeat) Studio 2, 2nd floor 230 - 430 p.m. How to build a live data-driven application that never crashes Studio 6, 2nd floor 230 - 430 p.m. How to make data findings come to life on radio Galerie 6, 2nd floor 230 - 430 p.m. Leading the data team Galerie 2, 2nd floor 230 - 430 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 230 - 430 p.m. Census Reporting 2.0 Galerie 4, 2nd floor 230 - 430 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 230 - 430 p.m. Finding the story: Campaign finance (repeat) Studio 4, 2nd floor 240 - 430 p.m. Excel: Using string functions to manipulate data 250 - 430 p.m. SQL 3: Joining tables (repeat) Studio 2, 2nd floor 240 - 240 p.m. R 3: Gathering and cleaning data (repeat) Studio 2, 2nd floor 240 - 240 p.m. Bringing data journalism to your student newsroom Galerie 4, 2nd floor 240 - 240 p.m. Bringing data journalism to your student newsroom 250 - 240 p.m. Bringing data journalism to your student newsroom 360 - 240 p.m. Bringing data journalism to your student newsroom 361 - 240 p.m. Using IRS nonprofit data and decoding 990s 362 - 240 p.m. Using IRS nonprofit data and decoding 990s	2:15 - 5:45 p.m.		Studio 1, 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 3:30 - 4:30 p.m. Excel CARwash: Cleaning dirty data Studio 8, 2nd floor 3:30 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) Studio 10, 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 build a live data-driven application that never crashes Studio 6, 2nd floor 3:30 - 4:30 p.m. How to make data findings come to life on radio Galerie 6, 2nd floor 3:30 - 4:30 p.m. Leading the data team Galerie 2, 2nd floor 3:30 - 4:30 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 3:30 - 4:30 p.m. Census Reporting 2.0 Galerie 4, 2nd floor 3:30 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 3:30 - 4:30 p.m. Finding the story: Campaign finance (repeat) Studio 4, 2nd floor 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) 4:45 - 5:45 p.m. Bringing data journalism to your student newsroom Galerie 4, 2nd floor 4:45 - 5:45 p.m. Bringing data journalism to your student newsroom Galerie 4, 2nd floor	2:15 - 3:15 p.m.	Using csvkit to wrangle data without Excel	Studio 6, 2nd floor
2:15 - 3:15 p.m. Being scrappy: Doing data journalism as a team of one Galerie 4, 2nd floor 2:15 - 3:15 p.m. Finding 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. SQL 2: Grouping and summing data (repeat) Studio 10, 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 build a live data-driven application that never crashes Studio 6, 2nd floor 3:30 - 4:30 p.m. How to make data findings come to life on radio Galerie 6, 2nd floor 3:30 - 4:30 p.m. Leading the data team Galerie 2, 2nd floor 3:30 - 4:30 p.m. How to squeeze court records to get the most juice Acadia, 3rd floor 3:30 - 4:30 p.m. Census Reporting 2.0 Galerie 4, 2nd floor 3:30 - 4:30 p.m. Digital security hygiene and threat modeling for journalists Bissonet, 3rd floor 3:30 - 4:30 p.m. Excel: Using string functions to manipulate data Studio 8, 2nd floor 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) Studio 10, 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. Using IRS nonprofit data and decoding 990s Bissonet, 3rd floor	2:15 - 3:15 p.m.	Tracking 2020 digital ads: Learn the secrets of new political ad databases	Galerie 2, 2nd floor
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3:30 - 4:30 p.m. Excel CARwash: Cleaning dirty data 3:30 - 4:30 p.m. SQL 2: Grouping and summing data (repeat) 3:30 - 4:30 p.m. R 2: Data analysis and plotting (repeat) 3:30 - 4:30 p.m. How to build a live data-driven application that never crashes 3:30 - 4:30 p.m. How to make data findings come to life on radio 3:30 - 4:30 p.m. Leading the data team 3:30 - 4:30 p.m. Leading the data team 3:30 - 4:30 p.m. How to squeeze court records to get the most juice 3:30 - 4:30 p.m. Census Reporting 2.0 3:30 - 4:30 p.m. Digital security hygiene and threat modeling for journalists 3:30 - 4:30 p.m. Finding the story: Campaign finance (repeat) 3:30 - 4:30 p.m. Excel: Using string functions to manipulate data 3:45 - 5:45 p.m. SQL 3: Joining tables (repeat) 3:445 - 5:45 p.m. R 3: Gathering and cleaning data (repeat) 3:45 - 5:45 p.m. Bringing data journalism to your student newsroom 3:445 - 5:45 p.m. Using IRS nonprofit data and decoding 990s 3:45 - 5:45 p.m. Callaborate tool 3:46 - 5:45 p.m. Callaborate tool 3:50 - 4:50 p.m. Callaborate tool 3:50 - 4:50 p.m. Callaborate tool	2:15 - 3:15 p.m.	Being scrappy: Doing data journalism as a team of one	Galerie 4, 2nd floor
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	4:45 - 5:45 p.m.	Using IRS nonprofit data and decoding 990s	Bissonet, 3rd floor
4:45 – 5:45 p.m. Geocoding using programming Studio 6, 2nd 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

# Sunday, March 8

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Time	Session	Room
9 – 10 a.m.	JavaScript 2: Hello Dʒ! (repeat)	Studio 3, 2nd floor
9 – 10 a.m.	Stats 1: An introduction (repeat)	Studio 2, 2nd floor
9 - 10 a.m.	Python 1: The fundamentals (repeat)	Studio 6, 2nd floor
9 - 10 a.m.	PDF 1: Using free online tools (repeat)	Studio 7, 2nd floor
9 – 10 a.m.	Finding the story: Opioid data	Studio 4, 2nd floor
9 – 10 a.m.	TL;DR: What to remember when you forget everything else	Galerie 2, 2nd floor
9 a.m 12:30 p.m.	2020 Election hackathon	Galerie 4, 2nd floor
9 a.m 12:30 p.m.	Master class: Getting ready to cover Census 2020	Galerie 5, 2nd floor
9 – 10 a.m.	Finding the story: Using natural language processing in social media research (repeat)	Studio 9, 2nd floor
9 - 10:30 a.m.	Conference sales	Preservation Foyer, 2nd floor
10:15 - 11:15 a.m.	JavaScript 3: Making a map in D3 (repeat)	Studio 3, 2nd floor
10:15 - 11:15 a.m.	Stats 2: Linear regression (repeat)	Studio 2, 2nd floor
10:15 - 11:15 a.m.	Python 2: Intro to data analysis using Pandas (repeat)	Studio 6, 2nd floor
10:15 - 11:15 a.m.	Python: Let's scrape a website (repeat)	Studio 9, 2nd floor
10:15 a.m 12:30 p.m.	Turning your stack of documents into structured data	Galerie 6, 2nd floor
10:15 - 11:15 a.m.	Where'd I put that file?	Galerie 2, 2nd floor
10:15 - 11:15 a.m.	PDF 2: Using OCR to extract data from PDFs (repeat)	Studio 7, 2nd floor
10:15 - 11:15 a.m.	Advanced SQL: Update queries, sub-queries and more (repeat)	Studio 4, 2nd floor
11:30 a.m 12:30 p.m.	SQL CARwash: Cleaning dirty data	Studio 4, 2nd floor
11:30 a.m 12:30 p.m.	Python 3: Data cleaning and visualization (repeat)	Studio 6, 2nd floor
11:30 a.m 12:30 p.m.	GitHub for journalists (repeat)	Studio 3, 2nd floor
11:30 a.m 12:30 p.m.	Finding the story: Scripting your Census analysis	Studio 2, 2nd floor
11:30 a.m 12:30 p.m.	PDF 3: Batch pdf processing (repeat)	Studio 7, 2nd floor
11:30 a.m 12:30 p.m.	Mapping in Python	Studio 9, 2nd floor