

Digital Forensics in the News

Can You Apply Your Technical Skills?



Who am I?

Managing Editor @ ForensicFocus.com

Professional writer since 2001

Freelance trade journalism

Marketing & PR for DFIR vendors

Contributor to Zero Abuse Project

#ActuallyADHD



2 Main Ways

Journalism Can Benefit from Digital Forensics (and vice versa)



Investigations

Authentication Verification Contextualizatio



Informing public perceptions, policy / legislation, & maybe the future?

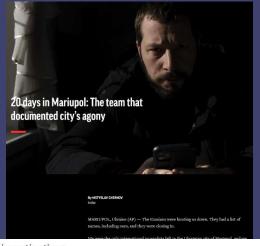


Reporting

Accuracy Education More Conte:



Why does it matter?





ital investigations journalist @sanyaburgess

Latest investigations

Civilian Harm Rus

Hospitals Bombed and Apartments Destroyed: Mapping Incidents of Civilian Harm in Ukraine





Far-Right Russia Male State: The Russian Online Hate Group Backing Putin's War



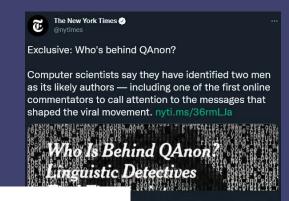
Cluster Munitions Ukraine
These are the Cluster
Munitions Documented by
Ukrainian Civilians



Disinformation Donbas
'Exploiting Cadavers' and
'Faked IEDs': Experts Debunk
Staged Pre-War 'Provocation'
in the Donbas



Why does it matter?



THE SHIFT

QAnon Followers Are Hijacking the #SaveTheChildren Movement

Fans of the pro-Trump conspiracy theory are clogging antitrafficking hotlines, infiltrating Facebook groups and raising false fears about child exploitation.



A woman holding up a hat with a Q on it, denoting QAnon, at a 2018 rally for President Trump. Al Drago for The New York Times



Why does matter?

The New york Times

Imagine Being on Trial. With Exonerating Evidence Trapped on Your Phone.

Public defenders lack access to gadgets and software that could keep their clients out of jail.



Policing

Report

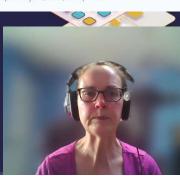
Mass Extraction

The Widespread Power of U.S. Law Libby Cohen Tech Published Jul 5, 2020 Updated Jul 2, 2020, 2:57 pm CDT **Enforcement to Search Mobile Phones**

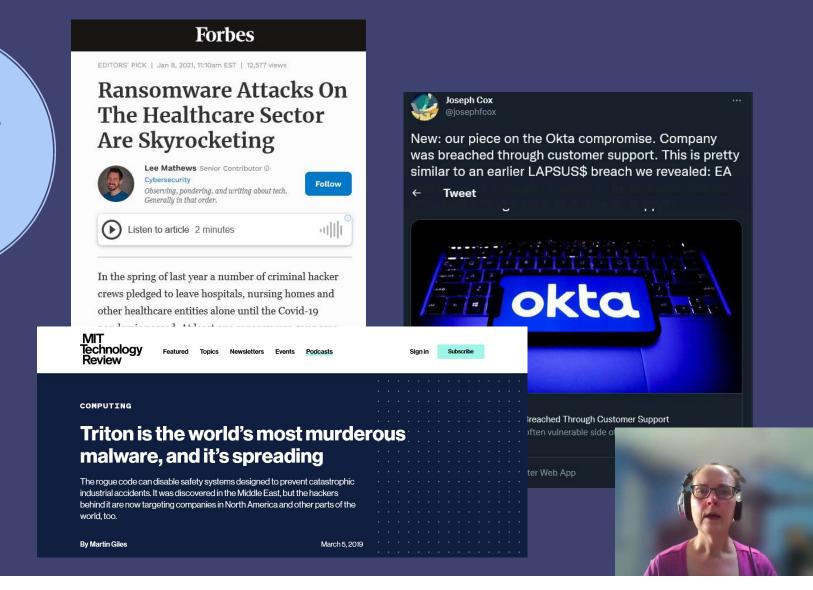
Logan Koepke, Emma Weil, Urmila Janardan, Tinuola Dada and Harlan Yu

What are geofence warrants and how can police use them against protesters?

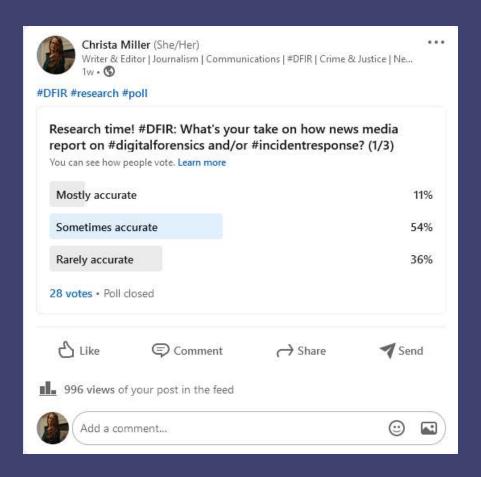
A bill in New York seeks to prohibit them.

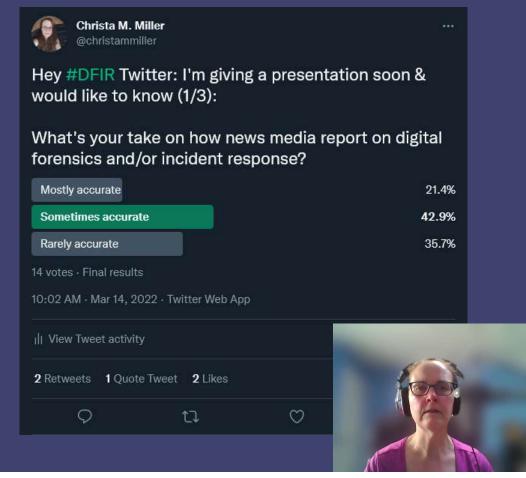


Why does it matter?



Informal Survey: Question 1





Informal Survey: Question 2





Informal Survey: Question 3





What Knowledge Is Needed?

"It's up to us journalists to hold those in power to account and to do so in a way that is accurate, fact-based, transparent, impartial, and grounded in humanity."





-- Hannah Storm, Ethical Journalism Network Director

Technology Itself

Data, storage, & flow Digital forensic tools Humans + tools = interpretation

Tech & Its Impact

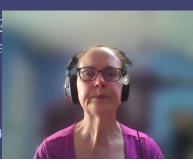
What are audiences (judges, lawmakers, constituents) struggling to understand?

Tech & Its Significance

What's the latest research? What methods are used & why?

Tech & Our Future

Where is it going? Are we keeping up? What protections a



Source: https://ethicaljournalismnetwork.org/journalists-must-be-able-to-hold-power-to-account-without-fear-of-attack-

What Skills Are Needed?

"The ultimate tool is your eye, and it comes down to looking at imagery carefully. A lot of our work is rooted in open source reporting and forensic audio-visual analysis, but it's wrapped in traditional reporting — it's hammering the phones and talking to experts."

-- Malachy Browne, New York Times Visual Investigations senior producer

Data Journalism

Metadata
PRNU analysis
Geolocation
Statistics & accounting

Coding

Scrapers
Aggregators
Pattern matching



OSINT

Satellite imagery Ship & aircraft tracking Social media Collaboration

Visual Journalism

Mapping & timelines
Scene reconstruction

Frame rate

Image & audio/video authen Image & audio/video enhan

Source: https://gijn.org/2020/06/16/the-forensic-methods-reporters-are-using-to-trace-attacks-by-security-forces/

Get Involved: Be a Source

Beat journalists need reliable sources who can:



Join media databases as an expert

Tell us about your research

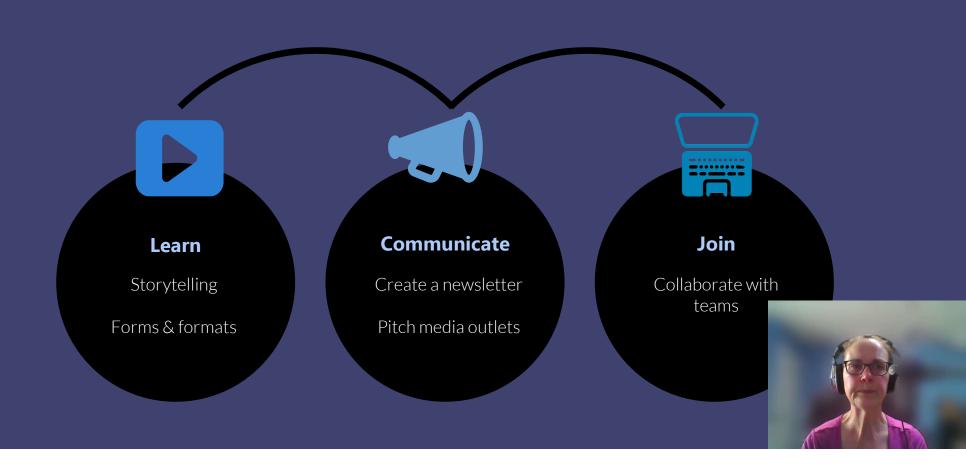
Help us understand nuance & significance

Build relationships & collabor



Get Involved: Reporting

Consider whether your expertise is better shared directly:



Who's Doing Media Forensics?



The 8 Trust



About

AQs

Resources

Partners

News

Pledge

Contact

Join Q

The Trust Project

Best Practices

- Who funds the site? What is its mission?
- What standards and ethics guide the process of gathering news?
- What happens if a journalist has ties to the topic covered?

Journalist Expertise

- · Who made this?
- Are there details about the journalist, including contact information, areas of knowledge and other stories they've worked on?

Type of Work

- What is this?
- Do you see story labels with clear definitions to distinguish opinion, analysis and advertiser (or sponsored) content from news reports?

Citations and References

- What is the source?
- Does the site tell you where it got its information?
- For investigative, controversial or in-depth stories, are you given access to the original materials behind the facts and assertions?

Methods

- Why was it a priority?
- For investigations, in-depth or controversial stories, why did they pursue the topic?
- . How did they go about the

Locally Sourced

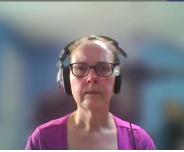
- Do they know the community?
- Was the reporting done on the scene?
- Is there evidence of deep

Diverse Voices

 What are the newsroom's efforts and commitments to bring in diverse perspectives across social and demographic differences?

Actionable Feedback

What dengage coverage good quarthe ans



https://thetrustproject.org/#indicators

Final Thoughts

Journalists work in a complex industry too



Questions?



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