

# The Use of Technology to Stalk

## **OVW Funding**

This project was supported by Grant No. 15JOVW-22-GK-03986-MUMU awarded by the Office on Violence Against Women, U.S. Department of Justice. The opinions, findings, conclusions, and recommendations expressed in this program are those of the author(s) and do not necessarily reflect the views of the Department of Justice, Office on Violence Against Women.

## **SPARC Website**

- URL: www.StalkingAwareness.org
- Available resources include:
  - Practitioner guides
  - Training modules
  - Victim resources
  - Webinar recordings
- Sign up for our newsletter
- Follow us on Facebook, Instagram, and Twitter
  - @FollowUsLegally



Technology does not cause stalking.

Stalkers cause stalking.



# Technology & In-Person Stalking

 The majority of stalking victims experienced both in-person stalking and technologyfacilitated stalking.

Reference: Messing, J., Bagwell-Gray, M., Brown, M.L., Kappas, A., & Durfee, A. (2020). Intersections of Stalking and Technology-Based Abuse: Emerging Definitions, Conceptualization, and Measurement. Journal of Family Violence 35(1): 693-704.

### **SLII Framework**

#### Surveillance

- · Smart home devices
- · Tracking software
- · Tracking devices
- · Monitoring online activity
- · Accessing online accounts
- · Cameras or audio/video recording devices

#### **Interference**

- · Spreading rumors online
- Doxing
- · Posing as victim and creating harm
- Swatting
- Posting private photos, videos, information online, real or fake
- Using technology to encourage others to harm the victim

#### Life Invasion

- Unwanted contact online or through text messages, phone calls, or other platforms
- · Impersonating victim
- Impersonating others to access the victim
- Hacking and/or controlling victim's accounts

#### Intimidation

- · Online threats
- Blackmail
- Sextortion
- Threats to release private info, photos, or videos (real or fake)
- Threats to interfere with property, employment, finances, accounts

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## **Experience mental health issues**

including PTSD, depression, anxiety, insomnia, and social dysfunction.

### Lose time from work.

1 in 8 employed stalking victims lose time from work. More than half lose 5 days of work or more.

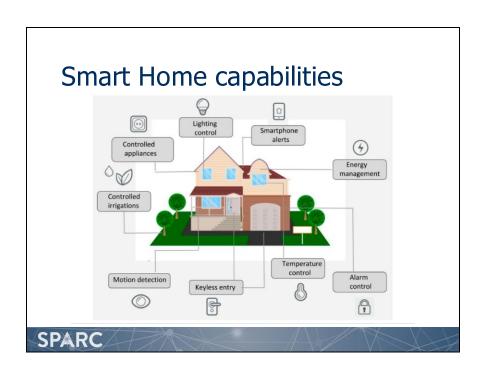
Relocate. 1 in 7 stalking victims move.

## Common Technology Tactics Experienced by Stalking Victims

Tactic	% of Victims
Unwanted phone calls, voicemails, text messages	66%
Unwanted e-mails or social media messages	55%
Monitored activities using social media	32%
Posted/threatened to post inappropriate/personal info	29%
Spied on/monitored activities using tech	22%
Tracked location with electronic device or app	14%

#### Reference:

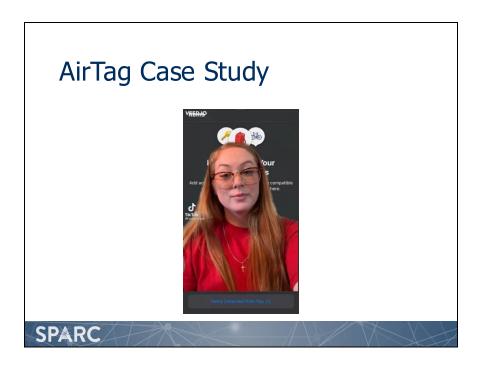
Truman, J.L., & Morgan, R.E. (2022). Stalking Victimization, 2019. Washington, DC: US DOJ, Bureau of Justice Statistics, Special Report.

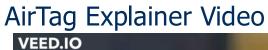




# How Do Stalkers Track Location?

- Property Tags
- Family Trackers
- Access to and/or Shared Victim Accounts
- Social Media Maps/Check-ins
- Installed Stalkerware
- Proxy Stalking







Note: Notification time is now a few hours, NOT 3 days Android now has an automatic AirTag tracker

## **Understanding AirTags**

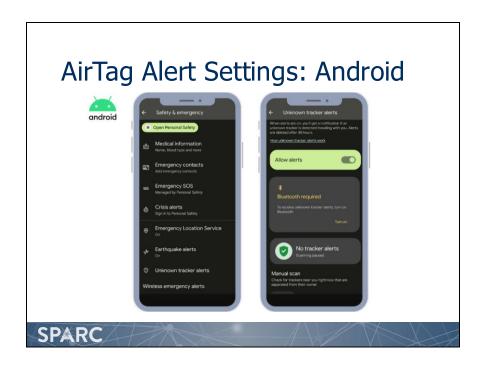
- Shows current location, not location history
- Frequency of the location update varies
  - Depends on other devices in range
- While Tile requires people to have downloaded the Tile app for the location tracking to "ping," AirTag "pings" off any Apple device within 800 feet



## **Notification Limitations**

- Alerts are inconsistent and designed to catch when device is traveling with the victim
- Most users are notified when they return home, not while traveling
- If the offender is present and/or in close proximity to victim regularly, notification is unlikely

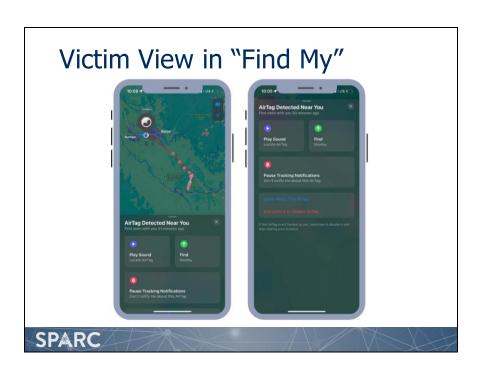


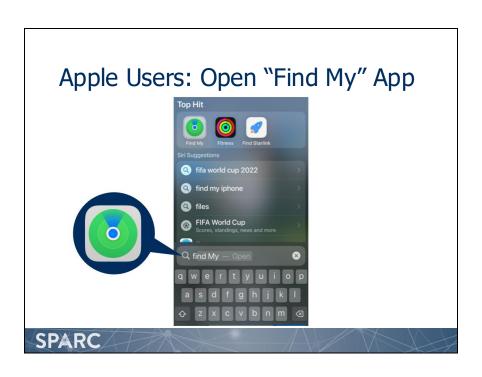


# AirTag Alert: Android

- App called Tracker Detect
- Can be downloaded from the Play Store







# "Find My" Account With Items

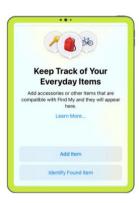




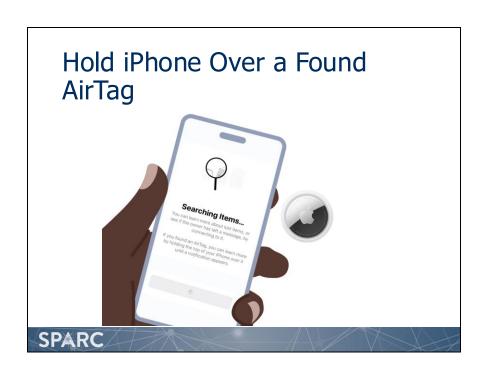
- If you have items associated with your account, this is what you see
- This is what the offender would see for any AirTag they set up

# "Find My" Account Without Items





 Swipe up to make "Identify Found Item" option appear



# "Find My" Provides Info about Found AirTag



## Disabling AirTag

- Opening the AirTag to view the serial number disables the Tag – thereby alerting the offender that it's been found
  - Law enforcement should come to victim and consider faraday bag
- Turning off Bluetooth will NOT stop the device from emitting a signal to the offender
- Take screenshot for evidence

## Evidence with AirTags

- Serial number is unique to each AirTag
- Serial number is on physical device, but will not show up on phone
- Contact email: <a href="mailto:lawenforcement@apple.com">lawenforcement@apple.com</a> to check device registration
- · Check financial records of suspect
- Contextual evidence

# Global Positioning System (GPS) Devices

 Global navigation satellite system that tracks location and other things

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## Child Trackers & Pet Trackers

 GPS devices are often marketed for keeping track of your kids or pets

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We often see people use GPS that are marketed for keeping track of your kids. They're small, super cheap and give real-time information.

# Pet Tracking Device (1 of 2)



# Pet Tracking Device (2 of 2)



# **Location Sharing**

- May be coerced
- Victim may not realize they are sharing their location
- A stalker may utilize multiple methods/applications to track their victims

## Percentage of People Checking In or Sharking Their Location by Platform and Privacy Settings

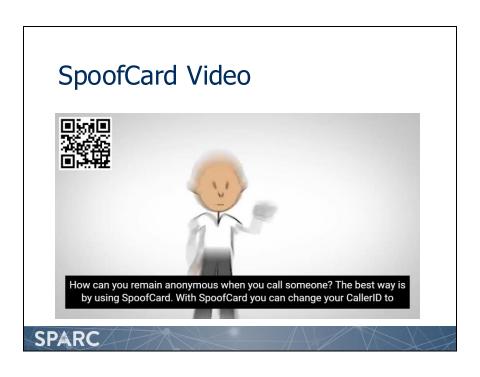
Platform	Private	Public
Facebook	57.1%	42.9%
Instagram	43.5%	56.5%
Snapchat	60.9%	39.1%
Twitter	26.5%	73.5%

- Nearly 1 in 4 people felt it's extremely or moderately safe to share their location on social media.
- 30.7% of people with Snapchat shared their location on the Snapchat map.

#### Reference:

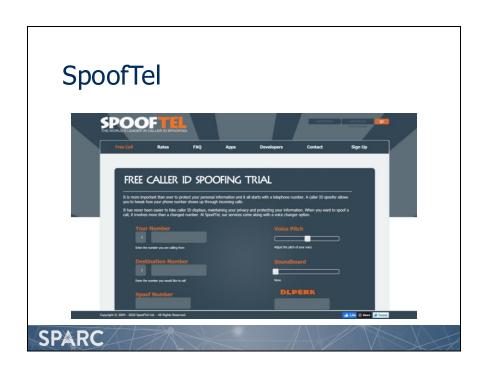
2020 ADT LLC dba ADT Security Services. https://www.adt.com/resources/location-services-risks





# Spoofing: What You May Hear

- "Numbers I don't recognize call and harass me."
- "I keep getting hang-up calls from random numbers."
- "It shows up as my mom/friend/someone I know, but it is the offender calling."
- "I know it's the offender, but it doesn't sound like them."
- "I blocked the offender, but they just keep calling me from different numbers."
- "People are saying I called them, but I didn't."



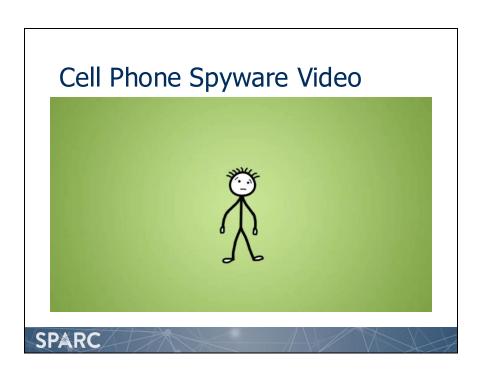
# Spoofing

- Offenders spoof number victim will answer
- Offenders spoof victim with court, police or other numbers victim will answer
- Offenders believe we can't prove they spoofed the call

# Documentation with a SpoofCard

- Phone records from: victim, "friend", and suspect
  - Victim's records show "friend" called but friend's records show no call
  - Suspect's records show a call to SpoofCard
    - Call the number and record
- Financial records of suspect





# Stalkerware: What You May Hear

- "They hacked my phone."
- "They hacked my account(s): e-mail, Facebook, Instagram, Snapchat...:
- "They're reading my texts."
- "They are listening to my calls."
- "They seem to know everything I've done on my phone."
- "They know my passwords and logins, even though I just changed them.
- "They have and/or are referencing pictures of me I took on my phone."
- · "They keep showing up where I am."

## What is Stalkerware?

- Commercially available software used for spying
- · Made for individual use
- Typically hides itself from the list of installed programs and does not display any activity notifications

## **About Stalkerware**

- Physical access to the device is almost always required for installation
- Can be on both Apple and Android devices, but more common on Android
- Best to assume all activities on device are being monitored

# Removing Stalkerware

- All actions may cause potential safety concerns!
- Factory reset
  - Note: this also destroys the evidence
- Change passwords on all apps/accounts when re-installed
- Antivirus can sometimes remove stalkerware

## Non-Stalkerware Possibilities

- Sharing Settings
  - · Phone login and password security
  - Cloud/Account Backup
  - Family sharing, "Find My Device"
- Account Access
  - Individual accounts: e-mail, social media, dating websites
  - · Smart device accounts
  - · Previously shared accounts
- Other Tools
  - Devices: GPS tracker, key logger, cameras, recording devices
  - Friends, family, colleagues



# Geotagging

• Camera + GPS = Geotagging

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## Exif Viewers Show Geo-Info

- Exif = Exchangeable image file format
- Descriptive data (meta-data) in an image file that include the date the photo was taken, resolution, shutter speed, focal length and geolocation

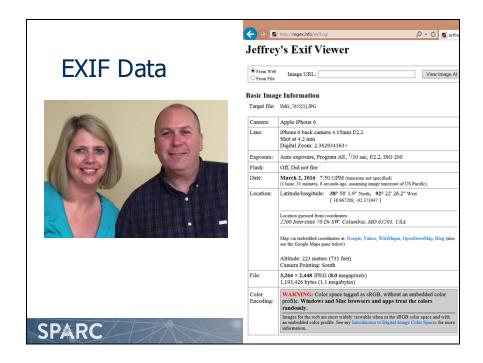
Exif Wizard

By homedatasheet.com,

Open iTunes to buy and down



View in iTunes



JL Show our pic first and saw we can alalyze it to see hwere we were when we took the pic

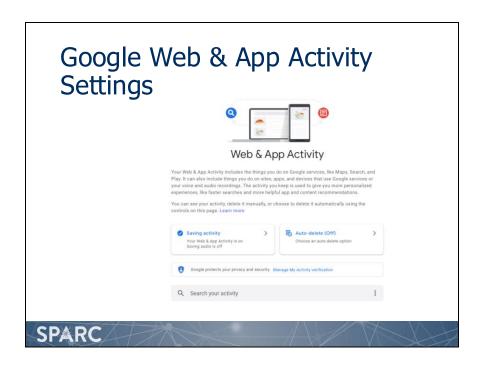
Then point out date time and then logitute and latitite and then link to google. The link will NOT work cuz its not live so don't' try to click on it

# Viewing EXIF data

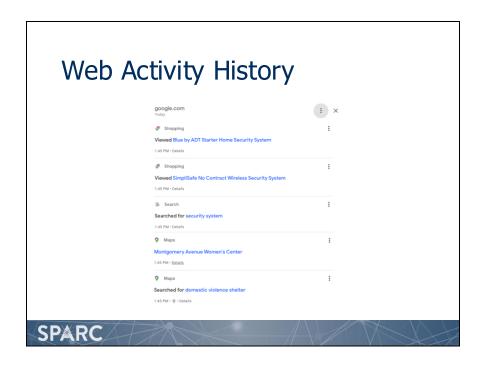
- · Online exif data viewers
- Apps
- Right click on the photo on a desktop and go to properties-details

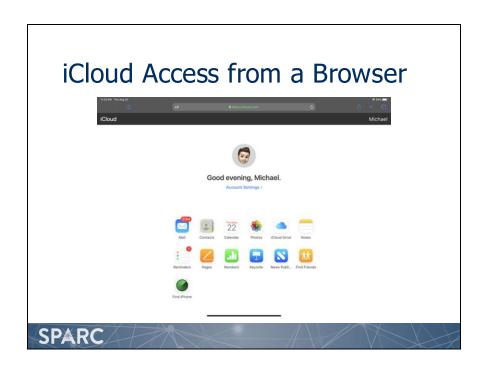
# Safety Strategies

- Turn location "off" on cell phone camera
- Review social media site to determine if exif data can be viewed
- Remove exif data using an online exif data removal tool



On Google account





# Find Yourself...

URL: <u>www.FastPeopleSearch.com</u>
 URL: <u>www.TruePeopleSearch.com</u>
 URL: <u>www.PeopleSearchNow.com</u>

# Non-Consensual Distribution of Intimate Images SPERC STAMME ANABEMESS.

# Sexually Explicit Photos

16% of victims 18-24 years old report that the stalker shared nude, semi-nude, and/or sexually explicit phots of videos of them.

#### Reference

Brady, P.Q. & Woodward Griffin, V. (2019). The Intersection Stalking and Sexual Assault Among Emerging Adults: Unpublished Preliminary Results. mTurk Findings, 2018.

# Deepfake Apps

- New AI deepfake app creates nude images of women in seconds
- The resulting fakes could be used to shame, harass, and intimidate their targets

# Resources for Non-Consensual Distribution of Intimate Images

- Cyber Civil Rights Initiative (#CCRI)
  - URL: www.CyberCivilRights.org
  - Image Abuse Helpline phone number: 1-844-878-2274
- Stop Non-Consensual Intimate Image Abuse
  - URL: www.StopNCII.org
- · C. A. Goldberg Victim Right's Law Firm
  - URL: www.cagoldberglaw.com
- DMCA Defender
  - URL: www.DMCADefender.com

# Technology-Facilitated Stalking and Sexual Assault



# Sexual Assault, Stalking, and Technology

- Offenders use technology to facilitate and cover up sexual violence
  - Using platforms to find and groom victims (messages, online communities)
  - · Gifts that monitor or allow access
- Misusing access to publicly available data to gain information
- Threats to disseminate intimate images
  - Including those acquired through surveillance cameras
- Sexual exploitation/trafficking via tech

# Technology-Facilitated Sexual Assault Headlines

- Jebidiah Stipe, Wyoming Marine, Solicited Ex-Girlfriend's Rape And Assault On Craigslist
- Details emerge in Web rape case: California Marine also tried to solicitate rape of ex-wife, authorities say
- Judge gives man 60 years in Craigslist rape case

# Dating App Facilitated Sexual Assault (DAppSAs)

- 14% of the 1,968 rapes committed by acquaintances occurred during an initial meetup arranged through a dating app
- High percentage of victims with self-reported mental illness (59.6%)
- More violent sexual assaults than acquaintance sexual assaults
  - Increased strangulation (32.4%); assaultive/penetrative acts; and victim injuries, especially anogenital and breast injuries
- "Due to the increased violent nature of DAppSAs, the researchers propose that sexual predators use dating apps as hunting grounds for vulnerable victims."

Reguirre

Valentine, J.L., Miles, L.W., Mella Hamblin, K., & Worthen Gibbons, A. (2023). Dating App Facilitated Sexual Assault: A Retrospective Review of Sexual Assault Medical Forensic Examiation Charts. Journal of Interpersonal Violence, 38(9-10), 6298-6322.

# **Dating App Concerns**

- Use proximity-based location
- No screening out of sexual offenders
- DAppSAs more likely to be currently enrolled college students (compared to non DAppSAs)
- Male victims percentage of DAppSA male victims was 2x more than rate of non DAppSA male victims
- DAppSA victims were significantly more likely to selfreport mental health and chronic medical issues

#### Resource:

Valentine, J.L., Miles, L.W., Mella Hamblin, K., & Worthen Gibbons, A. (2023). Dating App Facilitated Sexual Assault: A Retrospective Review of Sexual Assault Medical Forensic Examiation Charts. Journal of Interpersonal Violence, 38(9-10), 6298-6322.

# Use of Technology to Stalk: Responding to Victims SPARC STALLING AMARENESS. AMARENESS.

Should victims just log off?

# Safety Planning and Technology

#### Victims may consider:

- Secure passwords
- Hard-to-guess security questions
- Enable 2-factor authentication
- Use a second, safer device when/if possible
- Learn about settings and location-sharing defaults, set these intentionally
- Be mindful of smart device and social media usage

# Safety Checks

- Android and Gmail users should use Google's Security Checkup
- Apple users should update their phones and use Apple's Safety Check

## **Gmail Safety Check**

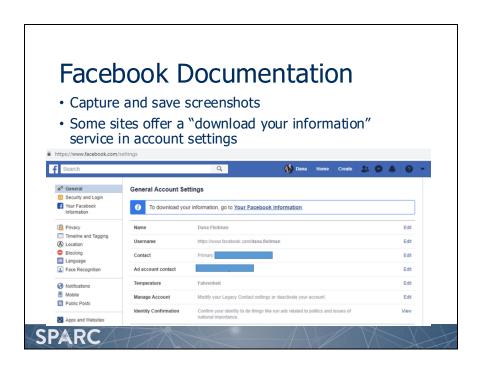
- Gmail account is connected to and controls the key safety elements of Android phones
- Gmail account is also the key to many important accounts for password reset
- Go to Security Checkup and review all tabs
  - Check access, sign-in, recovery, and sharing including email forwarding or linked accounts
- URL: https://myaccount.google.com/securitycheckup

# Apple Safety Check

- Where?
  - Settings → Privacy and Security → Safety Check
- Why?
  - Location tracking, text messages, phone call history, emails, credit cards
  - Highest risk!

## Documentation

- Screenshot or take photos of call log / text conversation
- Overlap screenshots / photos
- Capture time and date
- Take screenshot / photo of the contact info
- Consider apps like Tailor or StitchIt



# Technology & Stalking: Big Picture

- Believe victims. Offenders can misuse technology a variety of creative ways to access, contact, and monitor their victims.
- This technology is out there and it's easy to use. Offenders don't have to be particularly "tech savvy" to terrorize victims through technology.
- Build knowledge on privacy/sharing settings across applications and devices. Sharing settings/defaults are often not intuitive.
- Ask specific questions about offender contact and knowledge.
   This can better help you collect evidence and safety plan.
- Consider both evidence preservation and victim safety. See if the victim has access to a safer device.
- Charge relevant technology-related crimes (when appropriate and applicable).

### Just Tech

- Just Tech: Investigation and Prosecution of Online Abuse is a project of Aequitas and SPARC.
- Targeting prosecutors and law enforcement officers, Just Tech aims to increase the likelihood of positive case outcomes and victim experiences, as well as address the disproportionate impact of online abuse experienced by underserved communities.

# **NNEDV Tech Safety**

- The NNEDV Tech Safety App contains information that can help someone identify technology-facilitated harassment, stalking, or abuse and includes tips on what can be done. Available in English and Spanish.
- URL: www.techsafety.org

## For Victims

- Victim Connect
- URL: <a href="https://victimconnect.org/">https://victimconnect.org/</a>
- Victim Connect Resource Center provides confidential referrals for crime victims
- Phone: 855-484-2846 (855-4-victim)

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• Don't call us! We'll just refer victims here.

# Stalking Incident Log

- Date
- Time
- Description of incident (short)
- Location of incident (physical location, technology used, online platform)
- Witness names and contact info
- Evidence (photos, video, screenshots, items, etc.)
- Report (who it was made to name, office/org, badge or identification number)

- Location of incident, police report and badge numbers are essential
  - · Stalking crosses jurisdictional boundaries
  - Often, victims feel frustrated that the person they report to may not have a record of past complaints.
- Omit how the incident made the victim feel
  - Stalker may have access to this log during prosecution



# Stalking Resources

- Stalking response checklists for organizations and campuses available online
- URL: www.StalkingAwareness.org

# **Campus Resources**

- Resources for campus investigations and hearings
- Resources for stalking and Title IX
- URL: www.StalkingAwareness.org

# Stalking Awareness Brochures

- Order stalking awareness brochures and posters for your community today!
- URL: <a href="https://www.stalkingawareness.org/know-it-name-it-stop-it/">https://www.stalkingawareness.org/know-it-name-it-stop-it/</a>

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