<table>
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<td>Dr. danah boyd</td>
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<td>Research on the impact of technology on child sexual victimization</td>
<td>Dr. Janis Wolak</td>
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<td>Technology in Child Sex Trafficking – Caselaw and Policy</td>
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<td>TrafficBot: Combating Trafficking of Minors</td>
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<td>Q&amp;A open to the audience</td>
<td>Dr. danah boyd</td>
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Technologically-Mediated Commercial Sexual Exploitation of Minors

danah boyd
Microsoft Research

July 17, 2012
“Child Sex Trafficking”
All-American Asian Coco Rosemead City Special 100, 160, 200 Incalls Only - 29 (Rosemead)

New Super Sexy FR3@KY ♥Dominican HoTTI3♥ WiTh A Perfect Body ♥100% R3@L 60

******* Beautiful 36C Fantasy BLONDE*******  - 25 (Pasadena)

Asian Full Body Massage, Spa, Table Shower - 25 (28 E Duarte Rd, Arcadia)

EXOTIC | EDUCATIVE | SEXY & SWEET | SATISFYING | SPECIALS SPECIALS

DANGEROUSLY addictive incall only - 22 (Los Angeles)

**SUPEr**-THICK** BBW GaDDess ss-42DDDss-**52** BonTy ** SuPeR HOT SKILLS

Quality 100% Unrushed Satisfaction Low Volume WOW - 29 (Sherman Oaks)

**New OpEn**-**Pretty Asian**-**BEST MassaGe** -310-652-8808 - 22

* New ~~~ ~~~~ Professional ~~~~ Massage ~~~~ for ~~~~ you ONLY NOW - 22 (L)

BLUE- EYED - PLAYMATE- SMOKIN HOT- **NEW!** ~**SIMPLY THE E

Hot, Racy, Japanese Playboy Material Ready for Action! - 28 (Little Tokyo)

Including:
- Independent Escorts, Escort Agencies
- Incall, Outcall
- Massage Parlors, AHP, AAMP, RMP
- Strip Clubs: Erotic Dancers
- Asian, blonde, brunette, black, et al.

Regions:
- San Francisco: 415
- East Bay: $10, 925: Berkeley, Oakland, Fremont
- Silicon Valley: $50-408: Peninsula, South Bay, San Jose, Burlingame, Mountain View, Sunnyvale
- North Bay: 415, 707: Marin, Sausalito
- Monterey Bay: 831: Santa Cruz
- Sacramento: 916
- Central CA: 209, 659, 661, 805: Stockton, Modesto, Tracy, Fresno, Bakersfield, Central Coast
- Los Angeles: Orange County: Inland Empire: San Diego
- Nevada: Reno, Lake Tahoe: Las Vegas

For the latest news, see our Site Update on the message board

For the classic escort review site, see:
VIP: sf.myRedBook.com/vip
Normal: sf.myRedBook.com/review

Seeking a unique gift? Shop our myRedBook Store

Ladies, visit our sister site myPinkBook

Need help with BBBJ, BBJTC, BBFS, DATY, FIV, Greek, RBGFE and other terms and acronyms?

Ready to hook up? Browse the classified ads
Visibility
1. Prevention and Education
2. Recruitment and Abduction of Victims
3. Transit, Housing, and Everyday Control of Victims by “Pimps”
4. Retention of Victims by “Pimps”
5. Advertising and Selling of Victims
6. Searching for and Purchasing Victims by “Johns”
7. Money Exchange, Money Laundering
8. Underground Partnerships and Organized Crime Syndicates
9. Identification and Reporting of Victims and Perpetrators
10. Investigation of Illegal Activities
11. Rehabilitation and Recovery for Survivors
12. Prosecution of Perpetrators
13. Rehabilitation for and Control of Perpetrators
14. Political and Policy Activities
15. Anti-Trafficking Partnerships
Puzzle
The Role of Technology in Human Trafficking

Janis Wolak
Crimes against Children Research Center
University of New Hampshire

July 17, 2012
12 years of research about the impact of technology on child sexual victimization

- National population surveys of youth internet use
- National surveys of law enforcement about
  - Technology-facilitated sex crimes
  - Technology-facilitated commercial sexual exploitation of children
  - Prostitution of minors

Current projects

- Understanding the role of technology in child sex trafficking
- Treatment needs of victims depicted in child pornography
- Identifying contact offenders among child pornography traders in P2P networks

Research funded by DOJ, National Science Foundation, Microsoft
Prostitution of minors is a particularly brutal form of child sexual abuse.

- The great majority of victims are adolescents
- Most have suffered abuse, neglect, rejection
- Poverty plays a large role, unlike most forms of child sexual abuse
  - Many victims are homeless, uncared for, transient
- Many do not identify as victims
  - Attached to exploiters, suspicious of authorities
Technology does not complicate sex trafficking.

The assumptions people make about technology complicate the issue. Three common, unsupported assumptions:

- Technology has changed the nature of how minors are prostituted
- Exploiters who use technology are more dangerous
- More children are being prostituted because of technology
Our research suggests that

Networked technologies have not changed the nature of prostitution.

Most pimps and other exploiters are not sophisticated in how they use technology.

Child sexual abuse is declining, violent crime is falling, victimization of youth by prostitution probably is declining also.
Forcible rape, 33% decline, 1992-2009

Sexual abuse, 59% decline, 1990-2008

Source: FBI, Crime in the United States reports, National Child Abuse & Neglect Data System
Fewer kids are detained by police for running away

Rate per 100,000 Juveniles 10-17 years old

66% Decline from 1994-2009

Decline in teen birth rate, also sexual activity among 9th graders, multiple sexual partners among high school students

Source: CDC Data Brief 58: U.S. Teenage Birth Rate Resumes Decline
Percentage of high school students who thought seriously about attempting suicide (1991-2009)

Source: CDC – Youth Risk Behavior Survey

52% Decline 1991 - 2009
This is a message of optimism – decades of work by advocates, law enforcement, medical and mental health practitioners, youth workers (and maybe researchers) have made an impact and will continue to make an impact.
Where does technology help the issue?

- Police are using sophisticated technology to respond pro-actively to child sexual exploitation crimes
- Social networking and online advertising sites provide leads & evidence
- Cell phones, computers & other devices are gold mines of evidence
- Prosecutions are more successful
Where could there be innovation?

**Put technology in the hands of victims and potential victims.**
Work with victims to develop
- Panic buttons, danger alerts, safety apps
- Apps for resources (food, shelter, health care), with consumer ratings

**Work with police to give them flexible, affordable tools.**
- Many investigators see the value of technology and understand it, but police lack resources and time
- It’s more than the tool—training, upgrades, compatibility with other programs and case management systems are all factors for police when they adopt technology
Technology in Child Sex Trafficking – Caselaw and Policy

Mary Graw Leary

July 2012
12 Minutes

What are we talking about?
How did we get here?
The intersection of technology and commercial sex trafficking of children – where can we go?
“We are talking about more people enslaved today – in raw numbers – than at any time in history.”

- Luis CdeBaca
- Ambassador at Large
- Office to Combat Human Trafficking
- April 6, 2011
27 million people living in conditions of slavery throughout the world.
Two strings of events converge

- Re-conceptualization of child sex trafficking reflected in the law.
- Explosion of new media.
Human Trafficking

- 2000 watershed year for law
- Huge Misnomer
- Child Sex Trafficking
Definition - International Law

• **Action:**
  • recruitment, transportation, transfer, harboring or receipt of persons (transnational)

• **Means**
  • threat or use of force or other forms of coercion, of abduction, of fraud, of deception, of the abuse of power or of a position of vulnerability or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person,
  • OR a person under 18

• **Purpose**
  • exploitation
Exploitation

• Exploitation shall include, at a minimum:
  • the exploitation of the prostitution of others or other forms of sexual exploitation, forced labor or services, slavery or practices similar to slavery, servitude or the removal of organs.

  • Palermo Protocol, Art. 3
Consent?

- “irrelevant”
  - Palermo Protocol Art 3(b).
The recruitment, transportation, transfer, harboring or receipt of a child for the purpose of exploitation which includes, at a minimum, the exploitation of the prostitution of others or other forms of sexual exploitation.

This includes giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purpose of exploitation.

No physical transport necessary per se.
US Law - Federal

- TVPA 2000
• None
• Focus of law is on “Severe Forms of Trafficking”
Severe Forms of Trafficking

- (A) **sex trafficking** in which a commercial sex act is induced by force, fraud, or coercion, or *in which the person induced to perform such act has not attained 18 years of age*; or
- (B) the recruitment, harboring, transportation, provision, or obtaining of a person for *labor or services*, through the use of force, fraud, or coercion for the purpose of subjection to involuntary servitude, peonage, debt bondage, or slavery.
TVPA – 18 U.S.C. 7101(8)

- **Action**
  - recruitment, harboring, transportation, provision, or obtaining of a person

- **Means**
  - force, fraud, or coercion
  - OR if less than 18 and sex trafficking

- **Purpose**
  - Sex trafficking
  - or labor services with a purpose of involuntary servitude, peonage, debt bondage, or slavery
Sex Trafficking

• Sex Trafficking:
  • The recruitment, harboring, transportation, provision, or obtaining of a person for the purpose of a commercial sex act.
    • *22 U.S.C. 7101(9)*

• Commercial Sex Act
  • Any sex act on account of which *anything of value* is given to or received by any person.
    • *22 U.S.C. 7101(3)*
• 7102 - Recruitment, harboring, transportation, provision, or obtaining of a child under 18 for a sex act for which anything of value is received by any person.
• 1591 - Recruits, entices, harbors, transports, provides, obtains, or maintains by any means a person; or
  • (2) benefits, financially or by receiving anything of value, from participation in a venture.
• Attempts and conspiracies as well.
CSEC U.S. Law

- So, under US Federal law when a child is induced to perform a commercial sex act, that is child sex trafficking.
- 2012: 47 states have some anti-human trafficking law (U.N. Global Initiative to Fight Human Trafficking).
  - Today: increase in safe harbor provisions for children.
• “Technology has become the single greatest facilitator of the commercial sex trade in all of the countries observed, with the exception of Jamaica....”
  · *Shared Hope International*
  · 5000 suspected web sites directly or indirectly facilitating commercial sexual exploitation of children
• Donna Hughes
  • Argues that sex industry has been a leader in Internet commerce and technology innovation.
    • Accepts credit card payment
    • Offering live video streaming
    • Database
    • Search engine technology offering easy access to specified victims
Teen gadget ownership

The percent of all teens ages 12-17 who own each of the following devices, as of September 2009.

- Cell phone: 75%
- Desktop or laptop computer: 69%
- iPod or MP3 player: 79%
- Game console: 80%
- Portable gaming device: 51%

Source: The Pew Research Center’s Internet & American Life project 2009 Parent-Teen Cell Phone Survey, conducted from June 26 to September 24, 2009. n= 800 teens ages 12-17 (including 145 cell phone interviews). pewinternet.org
Among all 8- to 18-year-olds, amount of time spent with each medium in a typical day:

- TV content: 4:29
- Music/audio: 2:31
- Computers: 1:29
- Video games: 1:13
- Print: 0:38
- Movies: 0:25

Total media exposure: 10:45

Note: Children may be engaged in more than one of these activities at the same time.
Texting

• Text messaging has become the primary way that teens reach their friends, surpassing face-to-face contact, email, instant messaging and voice calling as the go-to daily communication tool for this age group. However, voice calling is still the preferred method for reaching parents.
  • Pew 2010
Teens’ activities on social networking sites

The percentage of teen social networking site users who have done the following activities, over time (2006-2009).

**Declined over time**
- Send group messages: 61, 54, 50
- Post comments to a friend’s blog: 76, 66, 52
- Send private messages: 82, 71, 66

**No statistically significant change**
- Comment on a friend’s picture: 83, 83
- Send IMs or text messages through the site: 54, 58
- Comment on a friend’s page or wall: 84, 77, 86

2009 data only:

**Join groups:** 37% of teens on SNS

**Use your cell phone to view or update your profile:** 25% of teens who access SNS through mobile devices

Pew Internet
Pew Internet & American Life Project
• Some 87% of smartphone owners access the internet or email on their handheld, including two-thirds (68%) who do so on a typical day.
• 25% of smartphone owners say that they mostly go online using their phone, rather than with a computer.
• While many of these individuals have other sources of online access at home, roughly one third of these “cell mostly” internet users lack a high-speed home broadband connection.
  - Pew (2011)
Phases of Human Trafficking

1. Prevention and Education
2. Recruitment/Abduction of Victims
3. Bringing Victims to Market
4. Transit, Housing, and Everyday Control of Victims
5. Retention
6. Advertising and Selling of Victims
7. Searching for and Purchasing Victims
8. Money Exchange and Laundering
9. Underground Partnership
• 10. Exchange of Victims
• 11. Protection of Business
• 12. Identify and reporting of Victims and Perpetrators
• 13. Investigation of Illegal Acts
• 14. Rehabilitation and Recovery
• 15. Prosecution of Perpetrators
• 16. Rehabilitation and Control of Perpetrators
17. Political/Policy Action

18. Anti-Trafficking Partnerships


- (Analyzing the Business Model of Human Trafficking to Better Prevent Crime, OSCE (2010))
‘Y2K Pimp’ Gets 12 Years for Recruiting Minor on MySpace

By Kevin Poulsen | November 8, 2010 | 5:43 pm | Categories: Crime

A self-described pimp who recruited a 16-year-old girl on MySpace then rented her out as a prostitute through escort websites was sentenced Monday to 12½ years in prison for sex trafficking of a minor.

Marvin Chaville Epps, 24, came to law enforcement’s attention in 2008 when a federal vice task force working a sting spotted him outside a Super 8 motel in Sacramento, California, with the girl, who was “wearing a tight red shirt, very short miniskirt and 4-inch, high-heel shoes,” wrote Sacramento Police detective Jeff Morris, in a court affidavit. “The minor had acne which was consistent with a teenager’s acne.”

In chat logs later recover by police, Epps described the ease of using sites like myRedBook and Craigslist to broker women. “I don’t put girls on the blade,” he wrote an associate. “It’s Y2K pimpin’.”

“Get some professional, beautiful, elegant, glamor shots, put ‘em on these escort websites, and her phone gone slap,” Epps wrote.

The case is part of what law enforcement and child-protection officials have described as an alarming trend that sees pimps increasingly using social networking sites to recruit minors into prostitution, then renting them out through paid online sex ads. Washington, D.C., man Christopher Tyrone Young was sentenced last June to 17½ years for recruiting a 17-year-old Florida girl over MySpace and luring her to Las Vegas by promising to make her a “star.”

• MySpace to recruit
• Police work to discover
• Chat logs to convict
How can we respond to changing landscape?

4 P Paradigm

- Prevention
- Prosecution
- Protection
- Partnership
• Victim Centered
  • Protection of access to victims through technology
    • Easy parental controls
  • Design products with nefarious uses – in mind: criminals lead in innovation
  • Accessible Digital Information to adults
  • Ability to limit contact from individuals
  • Ability to identify common characteristics of high risk cites (chat rooms, online advertising)
Prevention

• Bystander Centered
  • www.slaveryfootprint.org
  • Access to cybertipline and human trafficking tipline
    • 1-800-the-lost
    • 1-888-3737-888
Prosecution

• Investigation
  • Insert Video: http://abcnews.go.com/US/hidden-america-police-target-pimps-57-cities/story?id=16645747#.T-m-7ZHg2So
  • Increased Ability to Trace/track offenders
  • Source information

• Trials
  • Increased access to digital information/ technical information
  • Increased plain language testimony
Our Tech-Savvy Supreme Court

By Ashby Jones

The Supreme Court justices are a bright bunch. But chances are you’re not going to see them at next January’s CES show or ever watch them on a Web video demonstrating how to create apps for the iPhone.

That much was driven home, it seems, during today’s oral arguments in the case City of Ontario v. Quon.

The case examines whether a California police department violated the constitutional rights of an employee when it inspected personal text messages sent and received by a pager owned by the city of Ontario, Calif.

According to this post, at DC Dicta, the Court asked some questions of the lawyers which, well, the justices’ kids and grandkids could have answered while sleepwalking.

According to the story, the first sign of trouble came was about midway through the

- Roberts: “[what is the difference] between email and a pager?”
- Kennedy wondered would happen if a text message was sent to an officer at the same time he was sending one to someone else. “Does it say: ‘Your call is important to us, and we will get back to you?’”
- Justice Antonin Scalia wrangled a bit with the idea of a service provider.
- “You mean (the text) doesn’t go right to me?”
- Then he asked whether they can be printed out in hard copy.
- “Could Quon print these spicy little conversations and send them to his buddies?” Scalia asked.
Fairfax Gang Members Arrested For Prostitution Ring

By: Meymo Lyons // March 29, 2012

Federal prosecutors say that five alleged members of a street gang based in wealthy Fairfax County were running a prostitution business that recruited teenage girls who were threatened if they refused to participate, according to the Associated Press.

The five were charged today in federal court in Alexandria. According to an FBI affidavit, the defendants are members of a Fairfax-based offshoot of the “Crips” street gang. An affidavit from the U.S. District Court names Justin Deonta Strom as the alleged pimp and head of the ring, while Donyel Pier Dove, Michael Tavon Jefferies, and Henock Solomon Ghiile are named as drivers and bodyguards.

Court documents state that the gang members recruited attractive teenage girls to participate either through Facebook or by approaching them on the street. Many of the victims were under the age of 18, which was apparently encouraged by Strom, who allegedly told one young girl “younger was better because they could make more money off young girls.”
Investigation [just a small part]

• According to Affidavit
  • Underground Crips running violent prostitution ring for over 5 years.
  • Came to light when MW told counselor at school that she prostituted and recruited
  • Refused to speak with police
  • BUT:
    • Police located advertisements on MW’s’s computer that were posted on Craigslist and Backpage
    • Obtained IP addresses used to post similar ads with same user name
- Obtained street addresses of owner of Backpage account
- Ads paid for by prepaid credit card
- Located 7-11 where credit card purchased
- Surveillance footage showed D purchasing card
- Some Backpage ads were connected to a physical address
- MW ran away and police obtained cell phone information which showed a high number of calls from one location: Travelodge Motel in Alexandria
· Hotel clerk identified MW and a D already connected to investigation as guests
· D’s credit card paid for room
· Cell phone activity also frequent in area in NJ at another Travelodge
· That room also rented by same D on his credit card
· Also showed many calls from D’s address
· MW located at a motel with a Co-D whom she identified as boyfriend
· MW’s SNS identified status as dating “Jae Dee” who’s profile picture matched Co-D
• Searched MW’s phone and obtained more information including texts discussing payments
• Obtained Facebook messages between MW and V-2 showing MW recruiting her.
• Cell phone record connect V-2 and Co-D
• “V-2 recall’s [Co-D’s] residence as the main location for the enterprise. Within it V-2 observed computers and cellular phones to recruit females into the prostitution enterprise, advertise prostitution services over the internet, and maintain records, logs, and lists relating to the operation.”
- V-4 indicated initially recruited through her post on datehookup.com
- Search warrant executed for the profile names mentioned and saw conversations.
- V-4 discussed an incident where MW asked to get her iPod back because “it had her whole life on it.”
- When MW arrested, seized and searched iPod
  - Located suspected Facebook accounts of V’s and recruiters as well as numerous chats.
By time done

- Five Defendants
- Ten victims
- Many states from New Jersey through Maryland
- Violence
- Aggravated assault, forced narcotics consumptions, armed rape, gang rapes, violence threats
- 5 years
Conclusion

- 4 P’s
  - Like the blacksmith, lawyer
  - Like William Wilberforce
    - Prevention – assume nefarious use; limit access; educate children and adults; educate victims and bystanders
    - Prosecution – increase traceability, increase understandability of technology; increase access to information for judiciary
• Mary Graw Leary
  • leary@law.edu
  • 202-319-6612
TrafficBot: Combating Trafficking of Minors

Eduard Hovy and Andrew Philpot working with Mark Latonero

Information Sciences Institute
University of Southern California
www.isi.edu/~hovy
This problem

• A real-world application
  • Quite important in society, and urgent
• Rather straightforward technology
  • With wider applicability
• Unsuspected social and legal ramifications
  • Making it much more than a tech problem
Specific problem
General problem
What’s provided?

Information: National security / corporate info
Services: Prostitution
Activity: Human smuggling
Objects: Drugs, illegal weapons
Can you find such transactions and people when the providers and consumers want to hide them?
Attack the most obvious point: provider ads

Collect the open info (web scraper, etc.)
Identify providers by their IDs, features, behaviors, locations, times of activity, language usage, products...
Find correlations between features
Attack consumers:

Collect the open info: their discussions about the products
Identify consumers by their IDs, activities, locations, language use, consumption preferences...
Try to connect them back to the providers
Attack network of providers:

Identify providers by their IDs, features, behaviors
- Locations, times of activity, language usage, products...

Find correlations between them
- Joint movements to places; sharing or transfer of IDs (phone numbers), similar language and behavior...

Then go after the organizer(s)
Attack the transaction point and link backward to the provider network:

Lure in a provider, nab them and their support:
   Transportation provider, communication services...
Try to capitalize on the live communication links before the links die
Trafficbot

Why?
Young women runaways: life expectancy 2½ years
Law enforcement and social support work against human trafficking

FBI work:
Sources in various cities and around various sports events
Tracking and capture (sting) operations

Our work:
Website scraper filling a database
Inclusion of other FBI data
Data analysis tools for forensics and evidence
Some analysis challenges

Decoding “hidden” phone numbers, names

Discovery of relationships

- between posts ➔ activity
- between phone numbers ➔ pimp/madam, dumped phones
- different cities ➔ movement/transfer
- different sites ➔ activity, change in clientele
- shared photos ➔ pimp/madam, changed “name”, transfer
- in both ES/JB ➔ evidence of client relationship

Named Entity Recognition

Photo analysis for age detection, record linkage, etc.

Social Network Analysis
Current information sources

Escort services

backpage.com (400 cities)
eros.com (40 regions)
cityvibe (900 cities)
humaniplex.com (30 cities)
myredbook.com (LA/SF/LV)
sugardaddyforme.com (LA/SF/LV)

johnboards

theeroticreview.com
eroticmp.com
...
...
Hey guys! I'm a sexy ebony princess looking for my king. I am very down to earth and love meeting all different type of people and will make you feel so comfortable. So what are you waiting for I promise you won't be disappointed. Available 24/7.

PICTURES 100% REAL

7072805793 No text messages. Serious calls only please.

Always willing,

Melissa Taylor

Post's age: 20

- Location: Los Angeles, Hollywood, LAX, Surrounding Areas
- Post ID: 19196241 losangeles

Other ads by this user:

SELECT dt.id, dt.uid, dt.url, dt.age, dt.phone, dt.city, dt.location, dt.created_at, dt.downloaded_at, dt.extracted_at, dt.title, dt.posting_text FROM posts dt LEFT OUTER JOIN phones p ON dt.uid=p.id WHERE ('city' = 'losangeles')AND ('age' = '20')AND ('id' = '71644') ORDER BY created_at desc, phone, city LIMIT 100 on 'trafficlisting'.
Each database entry

Brief description: "Las Vegas hot babe"
Contact phone
Age
Location
Time posted
Full description: "hi my name is Kailey. I stand 5'6", 120 lbs, my photos are 100% real..."
Photos if available
Does anyone know how to contact Holly that used to work at Serenity Massage in Great Falls on 24th St Dt and 11 Ave South. She was the sort of chubby blond without the English accent. She gave the best BJ and I wondered if she might be wanting to do a little freelancing now that her parlor has closed but have no idea how to contact her. Any body know?
Analysis support: TrafficBot

Step 1: all the obvious raw data, properly standardized

Step 2: immediate correlations among data

Step 3: trends

Step 4: social networks
Overall statistics, for each phone number:

- All ads, indexed by website
- Ages claimed for this number
- Locations given for this number
Personal profile

Activity Statistics of 7770676100
Total Backpage Posts: 67
Total MyRedbook Posts: 0
Ages reported on Backpage.com:
  • 21 (46)
  • 22 (21)

Locations reported by this account:

<table>
<thead>
<tr>
<th>Address</th>
<th>Freq</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inland Empire</td>
<td>8</td>
</tr>
<tr>
<td>Long Beach</td>
<td>3</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>16</td>
</tr>
<tr>
<td>Orange County</td>
<td>25</td>
</tr>
<tr>
<td>San Fernando Valley</td>
<td>10</td>
</tr>
<tr>
<td>San Gabriel Valley</td>
<td>5</td>
</tr>
</tbody>
</table>
Ads sorted by date
Monitoring movements of phone numbers

- Rural area codes in large urban areas
- Brief travel to large sports events
- Numbers that attach to pictures of obviously different people
- Numbers that ‘go dead’ together, esp when someone is arrested
More sophisticated analysis

Apply machine learning to identify correlations among features

- Characteristic spelling, language use
- Identifying marks in pics: tattoos, teddy bears
- Typical times of advertising and being available
- Shared behavior (travel, times, etc.) with others

Search for age-related cues

- Names of the decade (Tiffany, not Prudence)
- Use of media
- Language use
Avoid false positives: Use machine learning to identify negative features

Medical text

Political discussions (academic or political or social)
Primitive crawlers for 6 ES, 2 JB sites
ESs: collected 285K posts, 671K images, 157K phone numbers, 32K crosslinks, 247K candidate names
JBs: Collected 22K posts, 55 images
Basic CodeIgniter MVC visualizers (ES, JB)
SQL query-builder style visualizer (ES)
Online display and test use by law enforcement
Attended escort sting operation with FBI
Actively extending the system
Working with FBI to obtain a new two-year contract
Working with DNA Foundation to obtain a small contract for johndboard harvesting
Searching for intel-related applications of the same basic system
Working within a real-world context

- For this problem, the legal and social aspects are more important (and difficult) than the technical
- Still excellent technical challenges for general problem of data capture and correlational analysis
Thank you!

Thanks to Hao Wang, Congxing Cai, Junwen Chen, and Donald Metzler
Socio-Technical Interventions in Human Trafficking

Mark Latonero, PhD
Research Assistant Professor
Deputy Managing Director
Research Director

USC Annenberg Center on Communication Leadership & Policy
\[
\frac{d \delta}{dt} = - \frac{V_1}{L_1} \left[ \theta + \log \left( \frac{V_1}{V_V} \right) \right] - \gamma, \text{ where } \gamma = \alpha \left( \frac{K_i}{K_i} \right) + A \log \left( \frac{V_1}{V_V} \right) + B \theta
\]

\[\delta \sigma(t) = \delta \sigma(0)\]
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
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<tbody>
<tr>
<td>Sex worker</td>
<td>Trafficked person</td>
</tr>
<tr>
<td>Escort</td>
<td>Victim</td>
</tr>
<tr>
<td>Prostitute</td>
<td>Survivor</td>
</tr>
<tr>
<td>Client</td>
<td>Exploiter</td>
</tr>
<tr>
<td>John</td>
<td>Sex Offender</td>
</tr>
<tr>
<td>Solicitor</td>
<td>Child Rapist</td>
</tr>
</tbody>
</table>
“Technology is neither good nor bad; nor is it neutral.”
Melvin Kranzberg (1986)
Unintended Consequences
Unifying Approaches

Victim/Survivor Centered
Health Centered
Law Centered
Socio-Technical Centered
(Values in Design)
Thank You

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