Goals of the GVDB

Collect data about gun violence in the US to facilitate **public health research**
Draw sample from local newspapers and television stations that publish online
Use machine learning and crowdsourcing to **extract structured data from text**
Crowdsourcing and human computation are emerging fields that sit squarely at the intersection of economics and computer science. They examine how people can be used to solve complex tasks that are currently beyond the capabilities of artificial intelligence algorithms. Online marketplaces like Mechanical Turk and CrowdFlower provide an infrastructure that allows micropayments to be given to people in return for completing human intelligence tasks. This opens up previously unthinkable possibilities like people being used as function calls in software. We will investigate how crowdsourcing can be used for computer science applications like machine learning, next-generation interfaces, and data mining. Beyond these computer science aspects, we will also delve into topics like the sharing economy, prediction markets, how businesses can capitalize on collective intelligence, and the fundamental principles that underlie democracy and other group decision-making processes.

**Course number**
NETS 213 - students from all majors are welcome!

**Instructors**
Chris Callison-Burch and Ellie Pavlick

**Teaching Assistants**
Course Staff

**Discussion Forum**
Piazza

**Time and place**
Spring 2016, MWF 2-3PM, LRSM Auditorium

**Office Hours**
See calendar page

**Prerequisites**
CIS 120 or prior programming experience

**Course Readings**
Each lecture has an accompanying set of academic papers

**Grading**
This is a project-based course. Instead of exams, you will do a series of hands-on assignments and a final project.

- Weekly assignments (45%)
- Final project (45%)
- Peer grading (5%)
- Participation (5%)

http://crowdsourcing-class.org
Crowdsourcing and human computation are emerging fields that sit squarely at the intersection of economics and computer science. They examine how people can be used to solve complex tasks that are currently beyond the capabilities of artificial intelligence algorithms. Online markets for human intelligence, such as Amazon Mechanical Turk, allow micropayments to be given to people to perform tasks that were previously unthinkable possibilities like people being used to test computer science applications like crowdsourcing for computer science aspects, we will also delve into collective intelligence, and the impact of these computer processes.

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Chicago shooting victims

The map below shows where people were shot in Chicago, broken down by community area. The darker the shade of blue, the larger the number of victims. Read our special report on shootings. This data was last updated July 2.

1,043 shooting victims in 2013

VICTIMS BY MONTH • 2012 • 2013

How Many People Have Been Killed by Guns Since Newtown?

Slate partners with @GunDeaths for an interactive, crowdsourced tally of the toll firearms have taken since Dec. 14.

By Chris Kirk and Dan Katz

The answer to the simple question in that headline is surprisingly hard to come by. So Slate is collecting data for our crowdsourced interactive. This data is necessarily incomplete (click here to see why, and to learn more about @GunDeaths, the Twitter user who helped us create this interactive). But the more people who are paying attention, the better the data will be. You can help us draw a more complete picture of gun violence in America. If you know about a gun death in your community that isn’t represented here, please email a link to a news report to slatedata@gmail.com. And if you’d like to use this data yourself for your own projects, it’s open. You can download it here.

Update, Dec. 31, 2013: After a year of gun deaths, Slate is retiring this project. The count is being picked up by Michael Klein’s Gun Violence Archive project, launching soon. Thank you to all who volunteered to make the data as comprehensive and accurate as possible.
VITAL SIGNS: CAUSE AND EFFECT; Linking Guns and Gun Violence

By ERIC NAGOJREY  MAY 27, 2003

People with guns in their homes are almost twice as likely to be killed by guns as people who do not keep them at home, researchers reported yesterday in The Annals of Emergency Medicine.

And, the researchers found, people with guns are 16 times as likely to commit suicide using guns.

The explanation may lie in the unforgiving nature of firearms, said the author of the study, Dr. Douglas J. Wiebe, who conducted the research at the University of California at Los Angeles and is now at the University of Pennsylvania.

"People who are shot are substantially more likely to die than people injured with nongun weapons," Dr. Wiebe said.

The study was based on a review of the deaths of 1,720 homicide victims and 1,959 suicide victims and a sampling of American adults.

It found that most of the victims, over 56 percent, knew their assailants. A fifth of the homicides occurred during robberies, 6 percent during drug deals and about 15 percent during family arguments.

The study also found that women were significantly more likely than men to be victims of gun homicides. "This likely reflects the singular danger faced by women in abusive relationships," Dr. Wiebe wrote.
Congressman Who Restricted Gun Violence Research Has Regrets

The politics of gun control were as divisive in the 1990s as they are today. Republicans had won big in the ‘94 elections by campaigning against President Bill Clinton’s gun control legislation. And in the spring of 1996, the National Rifle Association and its allies set their sights on the Centers for Disease Control and Prevention for funding increasingly assertive studies on firearms ownership and the effects on public health. The gun rights advocates claimed the research veered toward advocacy and covered such logical ground as to be effectively useless.

At first, the House tried to close down the CDC’s entire, $46 million National Center for Injury Prevention. When that failed, Dickey stepped in with an alternative: strip $2.6 million that the agency had spent on gun studies that year. The money would eventually be re-appropriated for studies unrelated to guns. But the far more damaging inclusion was language that stated, “None of the funds made available for injury prevention and control at the Centers for Disease Control and Prevention may be used to advocate or promote gun control.”

Dickey proclaimed victory — an end, he said at the time, to the CDC’s attempts “to raise emotional sympathy” around gun violence. But the agency spent the subsequent years petrified of doing any research on gun violence, making the costs of the amendment clear even to Dickey himself.
“Compared to five years ago, the funding picture for a few of us who have done this work for a long time is rosy,” Wintemute said. “Compared to what it requires, it is still bleak. We have lost 20 years of concentrated effort.”

Others have found the field fairly difficult to traverse. Dr. Douglas Wiebe, an associate professor of epidemiology at the Perelman School of Medicine at the University of Pennsylvania, worked on a 2009 study on the link between gun possession and gun assault that is believed to have sparked Congress’ interest in applying the Dickey amendment to the NIH. He called the restriction of funds “not fatal” to his field, “but very close to it.” Investigators, he explained, are being forced toward less-politically contentious studies, which makes it close to impossible to conduct sound epidemiological research.
The U.S. Centers for Disease Control and Prevention studies a variety of public health threats every year, from infectious diseases to automobile safety. But for 15 years, the CDC has avoided comprehensive research on one of the top causes of death in the U.S.: firearms.
Table 1  Major NIH research awards and cumulative morbidity for select conditions in the US, 1973–2002

<table>
<thead>
<tr>
<th>Condition</th>
<th>Total cases</th>
<th>NIH research awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cholera</td>
<td>373</td>
<td>101</td>
</tr>
<tr>
<td>Diphtheria</td>
<td>1337</td>
<td>54</td>
</tr>
<tr>
<td>Polio</td>
<td>266</td>
<td>106</td>
</tr>
<tr>
<td>Rabies</td>
<td>55</td>
<td>59</td>
</tr>
<tr>
<td><strong>Total of four diseases</strong></td>
<td><strong>2031</strong></td>
<td><strong>320</strong></td>
</tr>
<tr>
<td>Firearm injuries</td>
<td>&gt;3000000</td>
<td>3</td>
</tr>
</tbody>
</table>

Want to answer questions like:

How many deaths result from mass shootings compared to other gun crimes? How has this changed over time?

Too much emphasis on mass shootings has a cost

America’s gun control debate continues to revolve around the exact circumstances of the shooting that is currently on the news. Is a new gun law worth it, or not? That depends on whether it might have prevented this particular shooting. While this is an understandable, human response, it is a terrible way to go about saving lives.

The shock and horror that follows mass shootings has led to an obsessive focus on the dangers of military-style rifles - even though rifles of any kind were used in less than 3% of gun murders in 2014, according to FBI data.

A tunnel focus on mass shootings has also fueled the public
How strong is the effect of suicide contagion? Does it change with age, gender? Is it effected by the style of reporting?
Want to answer questions like:

Does the media portray African-Americans differently than Whites in reporting on gun violence?

Research shows the media disproportionately depict African-Americans as criminals, and whites as victims. Brooke speaks with Nazgol Ghandnoosh, research analyst at The Sentencing Project, about her study, "Race and Punishment: Racial Perceptions of Crime and Support for Punitive Policies," which details how media distortions feed our own implicit biases. (And you can take Harvard's Implicit Association Test yourself here.)
Want to answer questions like

Can we predict events that will become politically relevant touchstone events?

The New York Times

Freddie Gray Case Ends With No Convictions of Any Police Officers
## Require detailed, local data

### Time and Place
- **City**
- **State**
- **Other details (home, school, etc.)**
- **Date**
- **Clock Time**
- **Time of day**

### Alleged Shooter(s)
- **Name**
- **Gender**
- **Age**
- **Race**

### Victim(s)
- **Name**
- **Gender**
- **Age**
- **Race**
- **Was the victim injured?**
- **Was the victim hospitalized?**
- **Was the victim killed?**

### Circumstances of shooting
- **Type of gun**
- **Number of shots fired**
- **Answer Yes/No/Not able to determine**
- **The shooter and the victim knew each other.**
- **The incident was a case of domestic violence.**
- **The firearm was used during another crime.**
- **The firearm was used in self defense.**
- **Alcohol was involved.**
- **Drugs (other than alcohol) were involved.**
- **The shooting was self-directed.**
- **The shooting was a suicide or suicide attempt.**
- **The shooting was unintentional.**
- **The shooting was by a police officer.**
- **The shooting was directed at a police officer.**
- **The firearm was stolen.**
- **The firearm was owned by the victim/victim’s family**
Recent shootings involving children have rocked two American cities. Michael Day, 13, died after being caught in the crossfire between two groups in the Edison Neighborhood of Kalamazoo, Mich., on Memorial Day. This wasn’t even the first time Day had been a victim of gun violence: On April 6, he was shot in the back while leaving a party. He told police he was walking when he heard a gunshot and realized he had been hit.

Victor Manuel Garay, 15, has been accused of firing the shot that killed Day. Police had been called earlier in the day to break up the large brawl, but as soon as they left, the fighting continued. If charged as an adult, Garay could face life in prison without the possibility of parole.
Jennifer Mascia described how she wrote the Gun Report in an NPR interview.

JENNIFER MASCIA: Well, I would google “shooting,” “man shot,” “woman shot,” “child shot,” “teen shot” and “accidentally shot”. You know, this was all day one coverage of shootings, so a lot of times the details aren't flushed out. If there was no name and scant details, I had to skip over those. So each day, there'd be about 35 to 40 shootings that I would present.
<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Url</th>
<th>Source</th>
<th>Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Man Shot Near Pierce Park in Coral Gables: Police</td>
<td>A man is in the hospital recovering after police say he was shot multiple times near a park in Coral Gables. The incident happened just before 3 a.m. Thursday outside Pierce Park, located at 101 Oak Avenue. Coral Gables police say the victim, a man in his ...</td>
<td><a href="http://www.nbciami.com/news/local/Man-Shot-Near-Pierce-Park-in-Coral-Gables-Police-360424171.html">http://www.nbciami.com/news/local/Man-Shot-Near-Pierce-Park-in-Coral-Gables-Police-360424171.html</a></td>
<td>NBC Universal Media</td>
<td>man shot</td>
</tr>
<tr>
<td>I’m Voting for Hillary Clinton Because She’s a Woman</td>
<td>&quot;New drinking game: take a shot every time Hillary says 'as a woman' or 'as the first woman president,&quot; quips a straight white male on Facebook. This comment was part of a larger thread of young male Democrats discussing why Bernie Sanders is a better ...</td>
<td><a href="http://www.huffingtonpost.com/jillian-gutowitz/im-voting-for-hillary-clinton-because-shes-a-woman_b_8684910.html">http://www.huffingtonpost.com/jillian-gutowitz/im-voting-for-hillary-clinton-because-shes-a-woman_b_8684910.html</a></td>
<td>The Huffington Post</td>
<td>woman</td>
</tr>
<tr>
<td>Child attends school despite allegedly being stabbed by guardian - FOX10 News</td>
<td>... police said a 12-year-old child ran away from home after originally saying the child had been abandoned. A suspect was killed by officers after police said he shot at them while trying escape authorities in downtown Atlanta. A suspect was killed by ...</td>
<td><a href="http://www.fox10tv.com/story/30649388/child-attends-school-despite-allegedly-being-stabbed-by-guardian-mother">http://www.fox10tv.com/story/30649388/child-attends-school-despite-allegedly-being-stabbed-by-guardian-mother</a></td>
<td>WALA-FOX10</td>
<td>child</td>
</tr>
<tr>
<td>Palestinian who attacked soldier shot dead</td>
<td>The organisation has not claimed responsibility for killing the Henkis, who were shot in front of their young children as they drove on a West Bank road between the northern colonies of Itamar and Elon Moreh. The October 1 shooting was followed two days ...</td>
<td><a href="http://gulfnews.com/news/mena/palestine/palestinian-who-attacked-soldier-shot-dead-1.1631076">http://gulfnews.com/news/mena/palestine/palestinian-who-attacked-soldier-shot-dead-1.1631076</a></td>
<td>Gulf News</td>
<td>child</td>
</tr>
<tr>
<td>12-year-old child abandoned at Atlanta police station</td>
<td>A 6-year-old child is hospitalized after allegedly being stabbed in the face by his mother Wednesday morning. A suspect was killed by officers after police said he shot at them while trying escape authorities in downtown Atlanta.More &gt;&gt; A suspect was ...</td>
<td><a href="http://www.walb.com/story/30654553/12-year-old-child-abandoned-at-atlanta-police-station">http://www.walb.com/story/30654553/12-year-old-child-abandoned-at-atlanta-police-station</a></td>
<td>WALB 10 News</td>
<td>child</td>
</tr>
</tbody>
</table>
The Gun Report: Training data


http://fox6now.com/2014/05/29/fund-created-for-sierra-guyton-victim-of-
```python
import os
import sys
import string
import random
import operator
from sklearn.tree import export_graphviz
from sklearn.tree import DecisionTreeClassifier
from sklearn.naive_bayes import MultinomialNB
from sklearn.linear_model import LogisticRegression
from sklearn.preprocessing import LabelEncoder
from sklearn.feature_extraction import DictVectorizer
from sklearn.cross_validation import train_test_split
from sklearn.externals.six import StringIO

# read in raw data from file and return a list of strings


def get_data(filename):
    data = [line.strip().split('	') for line in
    random.shuffle(data)
    return data

# this function builds the feature matrix for the tree

def get_dt_tree_features(X):
    features = []
    feature_list = []
    wordCounts = {}

    for x in X:
        f = {}
        for w in [word.strip(string.punctuation)
        if not w in wordCounts:
            wordCounts[w] = 0
        wordCounts[w] += 1
        for w in wordCounts:
            if wordCounts[w] > 5000:
```
Current status of GVDB crawler

- Crawled pages: 307044
- Pages with extracted text: 128350
- Pages without extracted text: 178694
- Pages with parsed error: 0
- News sites to be indexed: 2762

http://newspapermap.com
Work on tasks

Read more about our tasks and select how you want to contribute.

**Extract information**

We want data that is easy for researchers to search and study. We need your help reading articles about gun violence and extracting key pieces of information (such as the location of the shooting or the name and age of the victim).

Total submitted tasks: 15526
Total available tasks: 5341

**Scan the Headlines**

Read headlines and tell us which ones describe incidents of gun violence.

Total submitted tasks: 5408
Total available tasks: 802

**Combine records**

We want to have as complete a database as possible. When there are multiple reports of the same incident, we want to combine the information from all the articles so nothing is left out. You can help by comparing two records and deciding which information is best to keep in the database.

Total submitted tasks: 297
Total available tasks: 7

---

**Identify articles**
**Compare Articles**
**Identify People**
Humans manually verify the predictions of the classifier.
Wrangler News - Online Edition - Home

http://www.wranglernews.com/053108.htm

If your kids are enrolled in the Hoops Star camp this summer at Kiwanis Park, you can expect they'll be learning basketball fundamentals and shooting skills from a pair of coaches who really know the game, namely the two Sam Duanas, senior and junior. Calendar | Classifieds | Contact Us | Home | Make a Payment | Media Kit | Online Advertising | Online Map | Online Pages | Previous Issues | Submit Your Ad Copyright ? 2008 Wrangler News
Police: Officer shoots, wounds shoplifting suspect outside Conroe Wal-Mart - Houston Chronicle

Conroe police say an officer shot and wounded a suspected shoplifter in the parking lot of a Wal-Mart store Monday - the second officer-related shooting of someone suspected of taking merchandise from a city Wal-Mart store in less than three years. According to investigators, Fillmore was observed concealing several items of merchandise and then leaving the store when a Wal-Mart employee attempted to stop him. A Conroe police officer who responded to the incident feared for the safety of the Wal-Mart employee and other citizens in the busy parking lot and fired one shot, wounding the suspect in his left shoulder. Fillmore has convictions dating to 1977 for various offenses including home burglaries, thefts and illegal drug possession, public records show.

First answer a series of binary questions about the circumstances of the shooting....
Man shot in North Baltimore and checks himself into hospital

A 32-year-old man was shot in North Baltimore and checked himself into a hospital Wednesday evening, police said. Detectives determined the man was shot on the 4800 block of Midwood Ave. in the Winston-Govans neighborhood, police said. Officers had been called to the block but did not release the man’s condition. Anyone with information is asked to call 396-2221.

…then extract structured information from text to populate the database.
"Richard Wayne Van Heyningen, a 47-year-old white man, was shot and killed Tuesday, March 31 near Hardwick Street and Fanwood Avenue in Lakewood, according to the Los Angeles County coroner’s office. The victim was riding his bicycle on Hardwick Street when a pickup truck driven by his brother came up behind him and ran into his bicycle, causing him to fall into the street, according to a news release from the Los Angeles County Sheriff’s Department."

Read the article

Number of victims: 1

VICTIM #1
NAME: Richard Wayne Van Heyningen
AGE: 47
RACE: white
GENDER: Male
VICTIM WAS: killed
Three seconds. On a dashcam video clock, that's the amount of time between the moment when two officers have their guns drawn and the point when Laquan McDonald falls to the ground. The video, released to the public for the first time late Tuesday, is a key piece of evidence in a case that's sparked protests in Chicago and has landed an officer behind bars. The 17-year-old McDonald was shot 16 times on that day the video shows in October 2014. Chicago police Officer Jason Van Dyke was charged Tuesday with first-degree murder....
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Automating The Pipeline

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- Joint event extraction via structured prediction. Li et al (2013).
Automating The Pipeline

Semantic Role Labeling

Chicago Police release Laquan McDonald shooting video | National News

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- Joint event extraction via structured prediction with global features. Li et al (2013).
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Chicago Police release Laquan McDonald shooting video | National News

Three seconds. On a dashcam video clock, that's the amount of time between the moment two officers draw their guns... and the instant Officer Jason Van Dyke fired his weapon.

Police release video of officer shooting teen | Oklahoma City

Protesters took to the streets of Chicago late Tuesday after police released a video showing an officer shooting 17-year-old Laquan McDonald... McDonald was a black teenager. The officer who shot him, Jason Van Dyke, is white. He was charged Tuesday with first-degree murder in McDonald's death...

Automating The Pipeline

Chicago Police release Laquan McDonald shooting video | National News

Three seconds. On a dashcam video clock, that's the amount of time between the moment when two officers in a police car arrived at a Chicago slaughterhouse to investigate a report of a man with a gun and the moment the video shows 17-year-old Laquan McDonald being gunned down.

Police release video of officer shooting teen | Oklahoma City

Protesters took to the streets of Chicago late Tuesday after police released a video showing an officer shooting 17-year-old Laquan McDonald. McDonald was a black teenager. The officer who shot him, Jason Van Dyke, is white. He was charged Tuesday with first-degree murder in McDonald's death...


- Person #1014
  - Name: Laquan McDonald
  - Gender: 
  - Age: 
  - Race: 
  - Incident #1053
    - City: 
    - Date: 
    - Shooter: 
    - Victim: Person #1014
    - Victim Killed: 

Automating The Pipeline

Chicago Police release Laquan McDonald shooting video | National News

Three seconds. On a dashcam video clock, that's the amount of time between the moment two officers drew their guns and the moment 17-year-old Laquan McDonald was struck in the chest.

Police release video of officer shooting teen | Oklahoma City

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<thead>
<tr>
<th>Person #1014</th>
</tr>
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<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Gender</td>
</tr>
<tr>
<td>Age</td>
</tr>
<tr>
<td>Race</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Incident #1053</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
</tr>
<tr>
<td>Date</td>
</tr>
<tr>
<td>Shooter</td>
</tr>
<tr>
<td>Victim</td>
</tr>
<tr>
<td>Victim Killed</td>
</tr>
</tbody>
</table>
Automating The Pipeline

Chicago Police release Laquan McDonald shooting video | National News

Three seconds. On a dashcam video clock, that's the amount of time between the moment officers lay their hands on him and the moment 17-year-old Laquan McDonald was shot. Chicago police released video of the shooting, a key piece of evidence in a case that's sparked protests in Chicago and has landed an officer behind bars. The video shows McDonald was shot 16 times on that day in October 2014. Chicago police Officer Jason Van Dyke was charged Tuesday with first-degree murder in McDonald's death.

Police release video of officer shooting teen | Oklahoma City

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Semantic Parsing

Person #1014

<table>
<thead>
<tr>
<th>Name</th>
<th>Laquan McDonald</th>
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<tbody>
<tr>
<td>Gender</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>17</td>
</tr>
<tr>
<td>Race</td>
<td>Black</td>
</tr>
<tr>
<td>Victim</td>
<td>Person #1014</td>
</tr>
<tr>
<td>Victim Killed</td>
<td>TRUE</td>
</tr>
</tbody>
</table>

Incident #1053

<table>
<thead>
<tr>
<th>City</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td></td>
</tr>
<tr>
<td>Shooter</td>
<td></td>
</tr>
<tr>
<td>Victim</td>
<td>Person #1014</td>
</tr>
<tr>
<td>Victim Killed</td>
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NLP Systems Require Training Data

• Most existing training datasets consist of factoid and pop-culture questions
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  - *What is the cover price of the X-Men comic book?* (Berant et al., 2013)
  - *How are Kim Kardashian and Kanye West related?* (Wijaya, et al., 2015)
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Man shot in North Baltimore and checks himself into hospital

A 32-year-old man was shot in North Baltimore and checked himself into a hospital Wednesday evening, police said. Detectives determined the man was shot on the 4800 block of Midwood Ave. in the Winston-Govans neighborhood, police said. Officers had been called to a report of a shooting and did not release the man's condition. Anyone with information is asked to call 410-396-2221.

First, try to figure out the date of the described event, and select it by clicking on the calendar icon. The publication date and the day of week mentioned in article are helpful in determining the date of the shooting. Next, click on parts of the text that correspond to the other information listed below, if that information is present in the article. When you highlight a passage of text in the article, you will get a dropdown menu that lets you select which question it answers.

Date

2016-07-20

State

MD - Maryland

City

Baltimore

Clock Time (1p.m., 2:37a.m.)
Memphis Officer Shot During Traffic Stop | National News - WCVB Home

CRAWLED DATE: 8/3/2015

Authorities say Officer Sean Bolton died after he was shot during a traffic stop in Memphis Saturday night. Authorities say Officer Sean Bolton died after he was shot during a traffic stop in Memphis Saturday night.

Police Identify Suspect In Memphis Officer's Killing

CRAWLED DATE: 8/3/2015

Police in Memphis identified a 29-year-old convicted bank robber as the man who allegedly killed a city cop during a traffic stop on Saturday. Police director Toney Armstrong on Sunday evening told reporters that officer Sean Bolton apparently interrupted a drug deal and that after "some type of physical altercation," Bolton was shot and killed by a passenger in the car. Armstrong said police were searching for 29-year-old Tremaine Wilbourn and had issued a warrant for his arrest. Wilbourn had been free on supervised release by the U.S. Western
Below you can see list of victims/shooter that we got from two different articles. Please match people from the first article with people from the second article.

Victim #1a
NAME: Sean Bolton
AGE: unknown
RACE: unknown
GENDER: Male
VICTIM WAS: killed

Victim #2a
NAME: Officer Sean Bolton
AGE: 33
RACE: unknown
GENDER: Male
VICTIM WAS: killed

…and entity coreference.
The Gun Violence Database

- Use crowdsourcing to collect detailed local data to support research about gun violence in the United States
- Collect data that can be used to train state-of-the-art NLP systems to automate the pipeline, enabling databases to be updated in real time
- Constantly growing with new data and richer annotation