

Annual Big Data Science Symposium (Oct 2): project strong academic influences at national and international levels.

Annual Big Data Hackathon for San Diego (Oct 3, 4, and 10): examine important civic issues with actionable results in San Diego: **Water Drought/Conservation, Disaster Response/Assistance, and Crime Monitor/Prevention.**

Build a collaborative community for the future development of the **Open Government and Open Data Initiative** in San Diego (City of San Diego, County of San Diego, SANDAG, SanGIS).



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IN THE MOBILE AGE

SDSU Hackathon Event in Fall 2015: “Big Data For San Diego” (October 3, 4, 2015 (Saturday -start) and Oct 10 (presentation date + awards)).

<http://bigdataforsandiego.challengepost.com/> (website)

<http://bigdataforsandiego.github.io/> (code repository)

The screenshot shows the ChallengePost website for the "BIG DATA HACKATHON \ SAN DIEGO" event. The header includes the ChallengePost logo, navigation links for "Explore projects" and "Find a hackathon", and a user profile for "Ming-Hsiang's Portfolio". The main title "BIG DATA HACKATHON \ SAN DIEGO" is prominently displayed, with the dates "OCT. 3, 4, 10" to its right. Below the title is a red navigation bar with links for "Home", "Participants", "Rules", "Submissions", "Updates", "Discussions", and "Manage". The main content area features a section titled "Hacking Big Data and Open Data in San Diego for Tackling the Challenges in Water Conservation, Disaster Response, and Crime Monitoring!". This section includes a description of the hackathon's goals, the location at San Diego State University, the dates (Week 1: Oct. 3 and 4, 2015; Week 2: Oct. 10, 2015), the themes (Water Drought and Conservation, Crime Analysis and Wildfire Alerts and Responses), and a note that anyone is welcome to participate. On the right side, there is a sidebar with a registration status "You're registered for this hackathon." and an "Unregister" link. Below this, it says "Opening soon" with a "view all dates" link, the location "San Diego State University", and an "Invite others to compete" section with social media icons for Twitter, Facebook, and Reddit. At the bottom right, a yellow box highlights "\$2,500 in prizes" and a "★ Best Proposals: Most Innovative Idea".

ChallengePost Explore projects Find a hackathon Ming-Hsiang's Portfolio

BIG DATA HACKATHON \ SAN DIEGO

OCT. 3, 4, 10

Home Participants Rules Submissions Updates Discussions Manage

Hacking Big Data and Open Data in San Diego for Tackling the Challenges in Water Conservation, Disaster Response, and Crime Monitoring!

The Big Data Hackathon for San Diego aims to promote the development of data science and information technology solutions for San Diego on important civic issues related to *water drought and conservation, disaster response, and crime monitoring*.

Where: San Diego State University Campus, Peterson Gym Room 153

Dates:

- *Week 1:* Oct. 3 (9am - 5pm), Oct. 4 (9am - 4pm), 2015 (First Round awards)
- *Week 2:* Oct. 10 (10am - 2pm), 2015 (Second Round awards)

Themes: The Hackathon will focus on three themes: Water Drought and Conservation, Crime Analysis and Wildfire Alerts and Responses. See the [submission guidelines](#) for more details.

Who should participate? Anyone is welcome to participate! Students, engineers, developers, programmers, journalists, scientists, public officials, and community members are just a few people who may find this Big Data event of interest.

You're registered for this hackathon.
[Unregister](#)

Opening soon
[view all dates](#)

San Diego State University

Invite others to compete

[Twitter](#) [Facebook](#) [Reddit](#)

\$2,500 in prizes

★ Best Proposals: Most Innovative Idea

Challenging Questions

Key Themes: **water conservation, disaster response, and crime monitoring.**

Water Conservation and Drought:

- How can Californians know about their water intake and how to conserve during the drought?
- Which day (weekday or weekend) or which areas (zipcode or street block) are the highest water usage?
- What are the reasons that people do not follow the mandatory water use restrictions in San Diego <http://www.sandiego.gov/water/conservation/drought/prohibitions.shtml>
- Where are the citations of water use violation in San Diego? <http://www.sandiego.gov/water/conservation/drought/enforcement.shtml>

Disaster Response and Assistance

- In what ways can Californians be informed and be able to mobilize when the next disaster happens?
- How can we provide and share useful information for our local community during and after the disaster events (wildfires, floods, and earthquakes)? (like Craigslist services?)
- Where are the available shelters or local assistance center (LAC) for my family during disaster events? How long will it take for my family to move to the nearby shelters during the disaster?

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Domain-specific Data Sources Available for Hackathon

Water Drought/Conservation,

- Equinox Center <http://www.equinoxcenter.org/>
- <http://droughtmonitor.unl.edu/MapsAndData/GISData.aspx>
- USGS Water resources: <http://water.usgs.gov/maps.html>
- California drought, visualized with open data <https://github.com/USGS-CIDA/CIDA-Viz>

Disaster Response/Assistance

- Open FEMA Data Feeds: <https://www.fema.gov/data-feeds>
- NOAA National Weather Services CAP (Common Alerting Protocol): <http://alerts.weather.gov/cap/wwaatmget.php?x=CAC073&y=1>
- San Diego County Emergency Map: <http://sdcountyemergency.com/maps/>
- San Diego County Emergency Data Feed (??? Demo link?)
http://services1.arcgis.com/1vlhDJwtG5eNmiqX/ArcGIS/rest/services/public_features/FeatureServer
- USGS Data Service: <http://viewer.nationalmap.gov/example/services/serviceList.html>
- Live Feeds (including Earthquake or wildfire) hosted by ArcGIS:
<http://tmservices1.esri.com/arcgis/rest/services/LiveFeeds>

Crime Monitor/Prevention (San Diego Regional Data Library):

- San Diego Region Crime Incidents 2007 – 2013
http://data.sandiegodata.org/dataset/clarinova_com-crime-incidents-casnd-7ba4-extract
- SANDAG: Download the most recent 180 days of San Diego regional crime data