

DSC 96

Workshop in Data Science

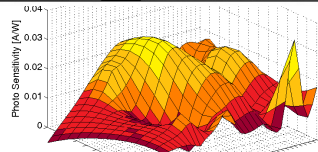
- Dr. Giorgio Quer
- **Contact:**
 - gquer@ucsd.edu
 - [@GiorgioQuer](https://twitter.com/GiorgioQuer)
- **Office:**
 - SDSC XXX, Mo 6.30-7.30pm
 - Today: write me an email before 6.30pm, meeting online
- **Data Science:**
 - capture
 - maintain
 - process
 - analyze
 - communicate



From WSN to health



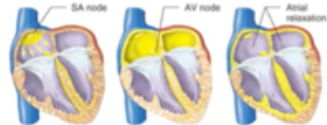
Wireless
Networks



Remote
Sensing

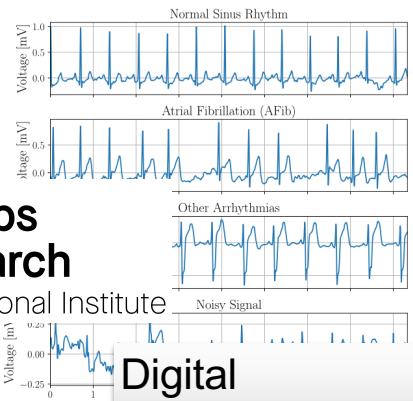


Wearable and
e-Health



Scripps
Research

Translational Institute



Digital
Medicine



[https://sites.google.com/ucsd.edu/
dsc96w2020/](https://sites.google.com/ucsd.edu/dsc96w2020/)

Announcements

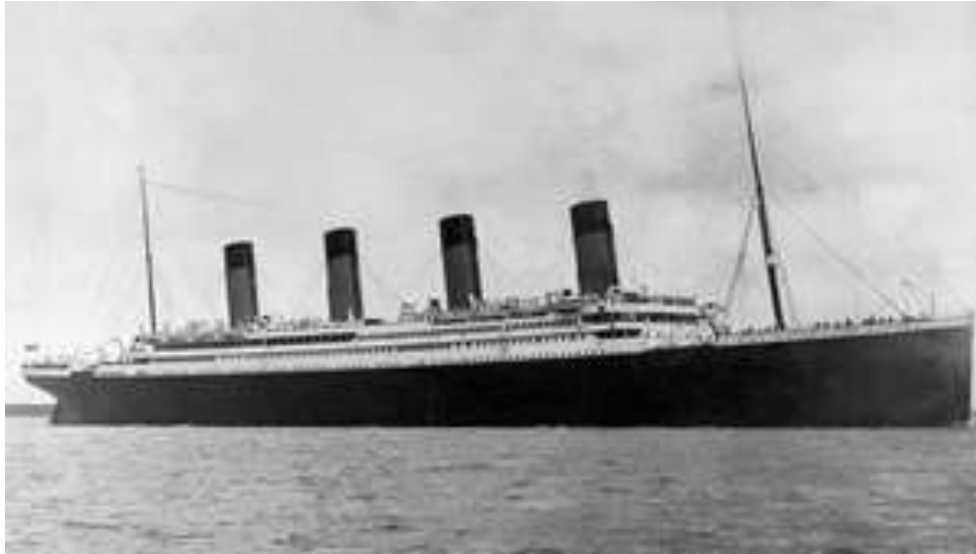
- Readings (Week 1 due Friday 1/10)
- Email: gquer@ucsd.edu
- Subject line:
 - [DSC96 W20]: Week 01, Sec A/B, YourFirstName YourLastName
- Email content:
 - Your comments/ questions/ observations on the proposed lectures

- **Tableau basics**

- Intro to interface
- Importing
- Dimensions and Measures
- Chart types
- Finding the story
- Practice on your own

Titanic Data

- How many people were on the ship?
- What was the total of all fares paid?



Tableau

- Open Tableau
 - Create Workbook
 - Import Data: get it from GitHub (link from website, find titanic.csv, click Alt + 'raw')
- Dimensions and Measures
- Chart Types
- Aggregations
- Filters
- Calculated Values

Titanic data

- Pclass:
 - It represent the class for each passenger (first, second, third)
 - 1,2,3
- Tableau
 - It guesses it is a number (like the amount paid): it is in **Measures**
 - It makes sense for Tableau to sum them up or to average them
 - What is the meaning of: average class is 1.85 ?
- Solution
 - Drag pclass it to **Dimensions** !
 - Change the data type to **string**
- What about age?
 - Age in bins (drag to Dimensions, Create, Bins)
 - Fix reasonable intervals (10 years?)

- Titanic dataset and cool things you can do with it: <https://www.kaggle.com/c/titanic>
- Tableau official training: <https://www.tableau.com/learn>
- Tableau examples with Titanic data: <https://public.tableau.com/search/all/titanic>

Titanic questions

- Can you attribute survival to a single primary trait?
- In other words, can you attempt to tease apart the confounding effects of pclass/age/sex, when assessing one?
- Can you explain why the distribution of fares by pclass seems off? why are some 3rd class tickets more expensive than first class?
- Does group size have an effect on survival rate?