Data and Society
Exam 1 Meeting

2/26/16
BREAK UNTIL 10:25

Announcements

• You made it through the first exam!
• Paper Assignment discussed today
• Office hours today: 1:30-2:30 (half hour later)
• Class next week (March 4) starts at 10:20
<table>
<thead>
<tr>
<th>Date</th>
<th>Section</th>
<th>Title</th>
<th>Roundtable / Students</th>
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<tr>
<td>January 29</td>
<td>Section 1</td>
<td>Class introduction; Digital data in the 21st Century (L1)</td>
<td>Data Roundtable / Fran</td>
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<td>February 5</td>
<td>Section 1</td>
<td>Data Stewardship and Preservation (L2)</td>
<td>L1 Data Roundtable / 5 students</td>
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<td>February 12</td>
<td>Section 1</td>
<td>Data-driven Science (L3)</td>
<td>L2 Data Roundtable / 5 students</td>
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<td>February 19</td>
<td>Section 1</td>
<td>Future infrastructure – Internet of Things (L4)</td>
<td>L3 Data Roundtable / 5 students</td>
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<td>February 26</td>
<td>Section 1</td>
<td>Section 1 Exam</td>
<td>L4 Data Roundtable / 5 students</td>
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<td>March 4</td>
<td>Section 2</td>
<td>Paper assignment description</td>
<td>Section 1 Data Roundtable / 5 students</td>
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<tr>
<td>March 11</td>
<td>Section 2</td>
<td>Data and Health: Phil Bourne guest lecture (L5)</td>
<td>Section 1+2 Data Roundtable / 5 students</td>
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<td>March 18</td>
<td>Section 2</td>
<td>Spring Break / no class</td>
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<tr>
<td>March 25</td>
<td>Section 2</td>
<td>Data and Entertainment (L6)</td>
<td>L5 Data Roundtable / 5 students</td>
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<td>April 1</td>
<td>Section 2</td>
<td>Big Data Applications (L7)</td>
<td>L6 Data Roundtable / 5 students</td>
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<td>April 8</td>
<td>Section 3</td>
<td>Data in the Global Landscape (L8)</td>
<td>L7 Data Roundtable / 5 students</td>
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<td>April 15</td>
<td>Section 3</td>
<td>Digital Rights (L9)</td>
<td>L8 Data Roundtable / 5 students</td>
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<td>April 22</td>
<td>Section 3</td>
<td>Bulent Yener Guest Lecture, Data Security (L10)</td>
<td>L9 Data Roundtable / 5 students</td>
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<td>April 29</td>
<td>Section 3</td>
<td>Digital Governance and Ethics (L11)</td>
<td>L10 Data Roundtable / 5 students</td>
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Section 2 Paper Assignment

- **Section 2 paper** (20 points):
  - **Undergrads**: 7 page research paper on an approved topic (does not include references)
  - **Grads**: 10 page research paper on an approved topic (does not include references)
  - **Paper due April 8, 8:45 a.m.**

- **1-page Outline due March 7, 12 noon**
Paper Structure

Specs

- Paper: 7 pages (undergrad) or 10 pages (grad), double-spaced, 12 pt font
- Final paper pdf due to bermaf@rpi.edu by 8:45 a.m. on April 8.
- Focus of paper should be an area of science or society that has been transformed by the availability of digital data

General outline:
- Description of the area and how data has transformed it
- Specifics on the kind of innovation in the application of data has made this possible
- Specifics on the kind of data infrastructure is needed to support this transformation
- Conclusion and thoughts about transformative potential of data in this area in the future

Paper should include adequate references and bibliography (not included in the page count).

- If you use material from a source, reference it in the bibliography.
- If you copy material from a source, put it in quotes and reference it in the bibliography.
One-page outline (pdf) due to bermaf@rpi.edu by March 7 before 12:00 noon

• Focus of paper should be an area of science or society that has been transformed by the availability of digital data

• Please provide a one-page description of your paper project including the items below. (This will not be graded; its purpose is to provide you with early feedback on your project).

  – Title/Topic of Paper: What are you planning to write about?
    • Examples from 2015: “Sports: The Data Revolution”, “The VA Data Backlog”, “Mobil Banking in Africa”

  – Outline of Paper:
    • Introduction: Major approach you plan to take, what aspect of the topic will you focus on?
    • Innovation: What areas of innovation will you highlight?
    • Infrastructure: What aspects of data infrastructure will you focus on?
    • Summary / Conclusion: What would you like the reader to take away from the paper
    • Bibliography: Initial references that are pertinent
Section 2 Paper Grading Metrics (20 points total)

**Content (10 points):**
- Does the paper content provide adequate depth and evidence to describe the transformation of an area by digital data?
- Are the references reasonable and adequate?

**Writing (10 points):**
- Is the paper well-organized, readable by non-specialists, and credible to specialists?
- Does the paper include specifics on both innovation and infrastructure?
- Is the writing articulate and compelling?
- Is the paper well-structured with the main points backed up by evidence?
Data Roundtable
Next two weeks (March 11): Data Roundtable


Next week (March 4): **Data Roundtable**


Today: L4 Roundtable February 26


