The Administrative Data Research Facility
(or, data, data, everywhere – we need to stop and think)

Julia Lane
New York University
Key ideas

- The economy has changed substantially, necessitating new measures.
- There is enormous potential with new data.
- Statistical agencies have a new role.
- We need to build new demand-driven institutions, both local and federal.

We need to stop and think...
“If HP only knew what HP knows, we would be much more profitable”

(former CEO Lew Platt)
Our approach

Secure **computing & analytics** platform

Analytics **training** programs

**SAFE DATA STRATEGY**
- Safe People: approved, trained researchers
- Safe Settings: only access data in a secure environment
- Safe Projects: approved projects consistent with agency mission
- Safe Outputs: review to limit disclosure before data are released
- Result in Safe Data

**UPCOMING TRAINING PROGRAMS**

- **Spring 2018**
  - Kansas City, MO
  - Application Closed
- **Summer 2018**
  - Chicago, IL
  - Apply by May 18, 2018
- **Fall 2018**
  - Washington, D.C.
  - Apply by August 31, 2018
- **Winter 2019**
  - New York, NY
  - Apply by November 30, 2018
Specifics

Data on high needs populations

Data on housing and transportation

Data on earnings and employment

Joined Up Datasets

Trained Staff

New Products

New Networks
Networks: >90 govt agencies; >200 participants

Q4 - How has your participation in the program changed your work in the last year?

Are there skills that could be added to the course? If so, which skills?

Surprisingly (to me), it was the networking within the class that had the most impact. My organization is currently involved in a project with two other classmates (from two separate organizations), and getting to know them in the class environment was very helpful. We also hired a third classmate into our agency based upon her performance in class; she has had a noticeable impact on our project.

Understanding of techniques and programs that I previously had no visibility on.

It's something that I said before, but hearing the topics in the class taught by experts felt as though a veil was lifted.

I can speak more eloquently about data science, but haven't changed my day to day use of SPSS. I do hope in the next year I'll be able to merge some new data we just collected with other public datasets using the skills learned in this class.

I have been trying to shift my work from simple reporting to more complex analytics to provide better insights, propose solutions, and help improve organizational performance.
Table 1 summarizes the median time spent in different states for each cluster.

Table 1. Median Time Spent in Each State by Cluster

<table>
<thead>
<tr>
<th>Intermittent employment (n=1881)</th>
<th>At least one incident of recidivism</th>
<th>At least one technical violation</th>
<th>Technical violations as a percent of recidivism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full cohort</td>
<td>53%</td>
<td>31%</td>
<td>60%</td>
</tr>
<tr>
<td>Primarily incarcerated</td>
<td>41%</td>
<td>26%</td>
<td>65%</td>
</tr>
<tr>
<td>Intermittent employment</td>
<td>66%</td>
<td>39%</td>
<td>58%</td>
</tr>
<tr>
<td>Unemployed after initial incarceration</td>
<td>23%</td>
<td>14%</td>
<td>61%</td>
</tr>
<tr>
<td>Intermittent incarceration</td>
<td>99%</td>
<td>66%</td>
<td>67%</td>
</tr>
<tr>
<td>Working after incarceration</td>
<td>43%</td>
<td>21%</td>
<td>49%</td>
</tr>
</tbody>
</table>

Figure 2 Cluster Analysis: Five clusters were identified from the trajectories.
Tailored and Customizable Metrics

Fig. 2: Dashboard metrics (left) and industry subsets (right)
The dashboard can visualize different metrics (left) – including QWI metrics developed in the context of the Census LEHD program –, subsetting the data by different industries (right).
Comparing Employment Dynamics Across Borders

Fig. 3: Comparing total earnings with Illinois border counties

The dashboard can include border counties from the states that provide data to the ADRF.
Key ideas

- Economy has changed substantially => new measures necessary
- Enormous potential with new data
- Statistical agencies have new role
- We need to build new demand-driven institutions – local plus federal
- We need to stop and think
Comments welcome

- Julia Lane
- Julia.lane@nyu.edu