**Data Hack/Challenge Kickoff Event**

**SDSS 2019**

**Schedule**

**Wednesday**

* 6:30 - 6:45 p.m.: Welcome, introductions, team assignments
* 6:45 - 7:00 p.m.: Introduction to the data sources and research questions
* 7:00 - 7:30 p.m.: Team data explorations and selection of research question
* 7:30 - 8:00 p.m.: Data sprint activity
* 8:00 - 8:30 p.m.: Free work time

**Friday**

* 1:30 - 3:05 p.m.: Presentations of findings

**Saturday**

* 1:00 - 2:35 p.m.: Presentations of findings

**Data**

* Eviction Labs
* Zillow
* Housing and Urban Development
  + Foreclosures
  + Point-In-Time (Homeless Count)
* American Community Survey

See the Data Dictionary for more information about the datasets.

**Prompts**

* Is there evidence for spatial relationships in housing insecurity in King County?
* What demographic variables from the ACS might be useful in predicting changes in housing security in King County?
* How have housing costs changed over time in King County?
* What do forecasts of the next 5 years suggest about housing insecurity and costs in King County?
* How does the homeless population in King County differ from rest of the United States? How does the homeless population vary across King County and through time?
* Can forecasts be used to identify significant areas of interest for public policy and funding programs?

**Background and Resources**

* Evictions: <https://evictions.study/index.html>
* One Night Count: <http://homelessinfo.org/resources-2/information-on-homelessness/>
* HUD Exchange: <https://www.hudexchange.info/programs/hdx/guides/pit-hic/#general-pit-guides-and-tools>

**Some R Help**

* Trigris: <http://rpubs.com/kitadasmalley/howToTrigris>
* Get ACS: <http://rpubs.com/kitadasmalley/getACSVars>

**Presentation Guidelines**

* Each group will give an 8 minute presentation with 2 minutes for questions.
* Groups should create a visual presentation for their project (slides, plots, etc).
* An introduction should be made to the group’s project, their chosen data, and the question they are trying to answer.
* Conclusions should be made to connect the project to the real world context and how the findings might help inform policy.
* Upon completing the hack, each group should send the final version to Kelly (mcconville@reed.edu) so that it can be hosted on a public git repo.

**Prizes and Awards**

All presenters will receive a small, local prize for participating in the data hack. Awards will also be given for the following categories:

* Best Data Viz
* Best Model/Analysis
* Best Presentation
* Best Teamwork

Awards will be given separately for the Friday session and the Saturday session.