

# Introducing the Upworthy Archive

COMM 4940  
Kennedy Hall 213



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[citizensandtech.org](http://citizensandtech.org)

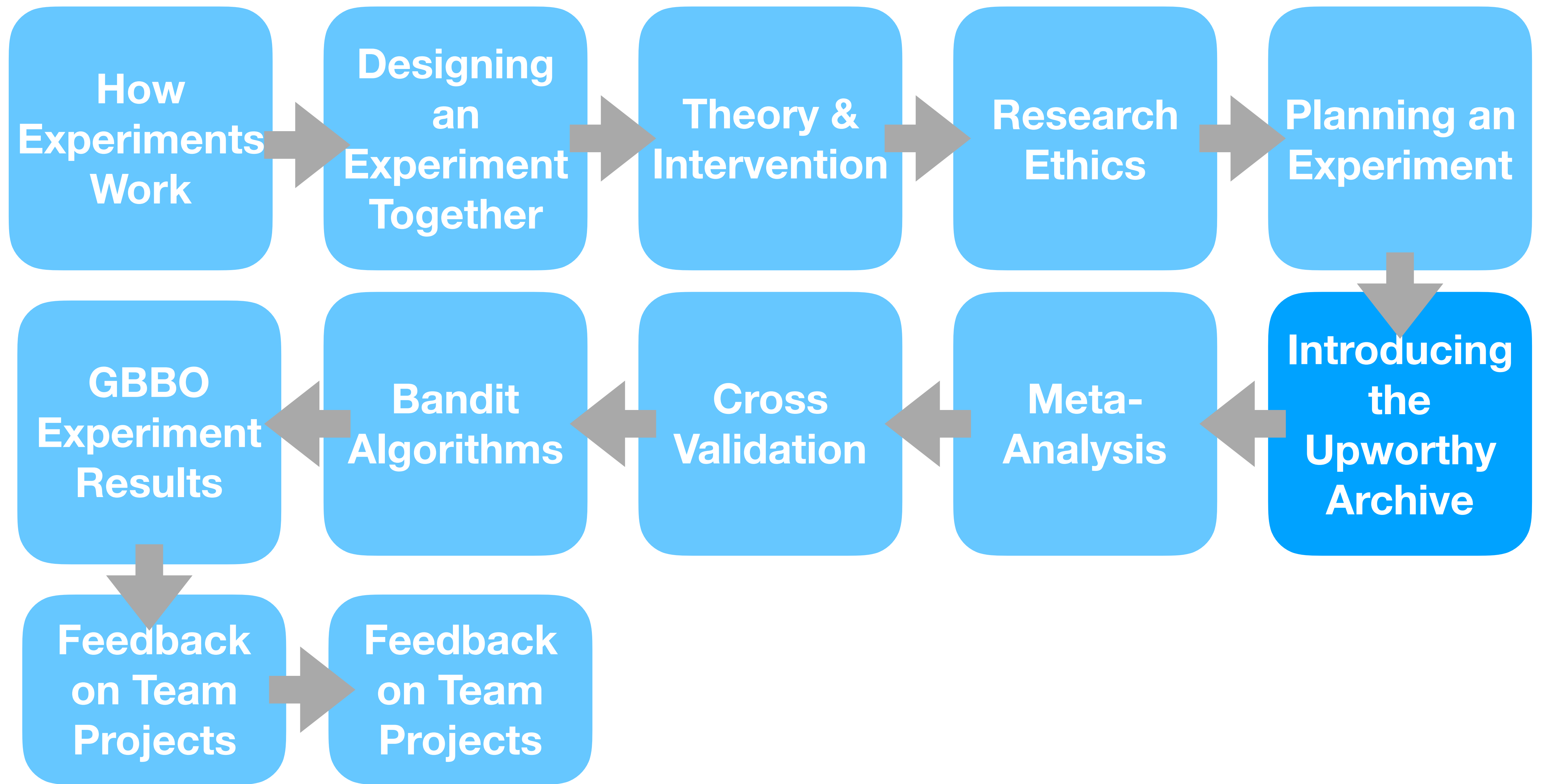
[natematias.com](http://natematias.com)



College of Agriculture  
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Communication



# How to ask questions with the archive

1. Identify a **question / theory to test**
2. Develop **a method to select relevant headlines** & experiments
3. **Meta-analyze** the results

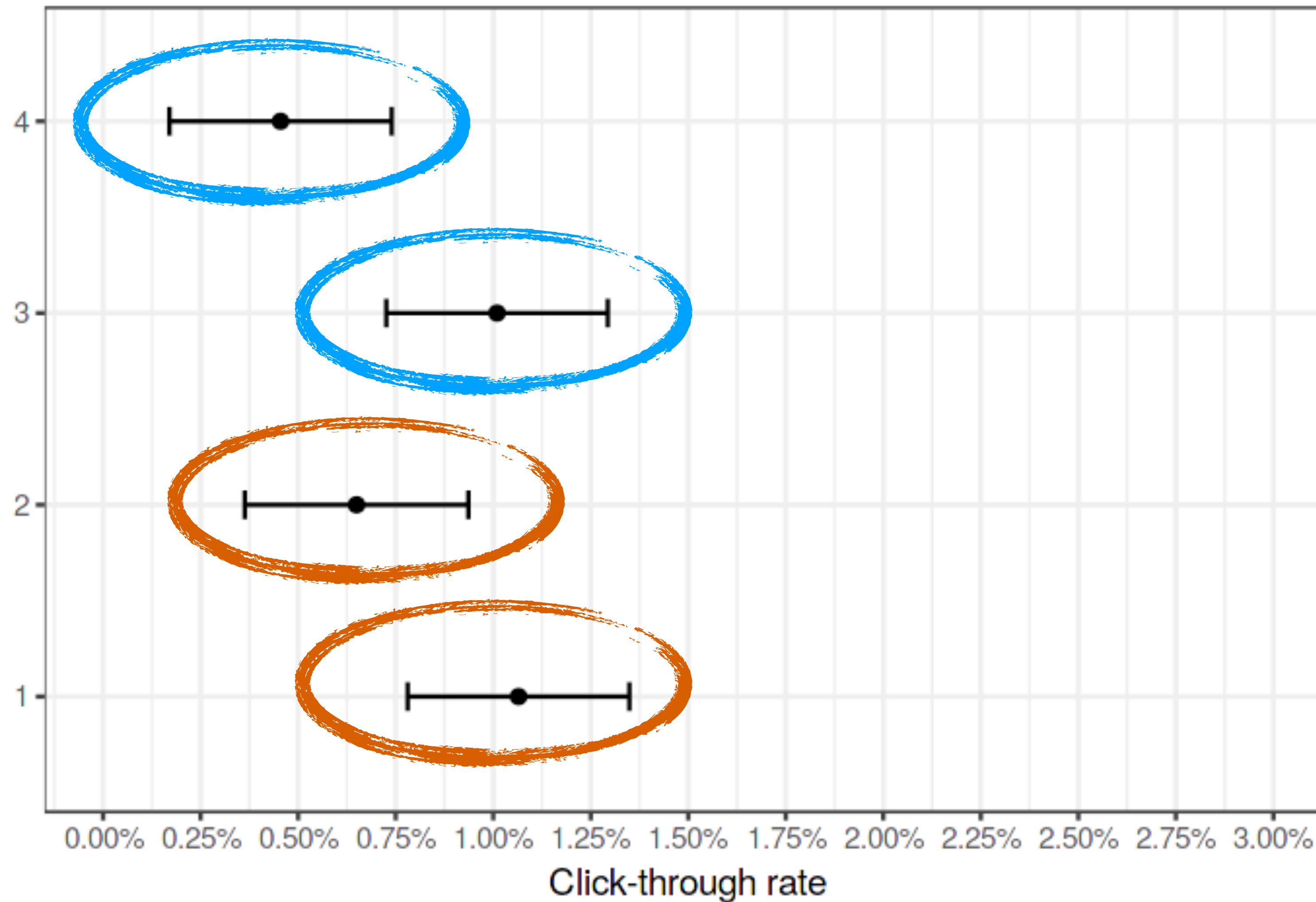
# What is a good question?

1. It contributes to an important **practical** or **scientific** conversation (or both)
2. The archive includes data that can answer the question
3. By the end of the semester, your team will have the skills to ask the question

# Hypothesis example: celebrities

Does **including a famous person's name** in a headline **increase the number of clicks** it receives?

# Create a way to detect headlines



**Headlines without  
Celebrity Names**

**Headlines with  
celebrity names**

# Hypothesis extension: gender

Does **including a male name** in a headline **have a larger effect** than **including a female name**?

# Checking if your question is askable

1. Can you detect headlines **in a way that makes sense**? (example: gender is more complicated)
2. Are there **cases in the data**?
3. Do those cases **appear in the same tests**?



# Extension: celebrity popularity

To ask this question, a team would need:

1. Rankings of celebrities (websites) (top 100 lists are not comprehensive)
2. Timing - celebrities are different at different times
3. Is there a match between certain issues and celebrities?

Problems

- what about people who are not celebrities?
- Finding a time-specific dataset of celebrities

# Example: Algorithms

Could Upworthy have gotten more  
clicks by using bandit algorithms?

# Example: Predicting Future Results

Can a machine-learning model  
predict **future test performance**?

# Example: Do Organizations Learn?

Did Upworthy get better **get better**  
**at writing headlines** because they  
did A/B testing?

# Cross-Validating Confirmatory Studies

**Apply & Receive  
Exploratory Data**  
(agree to follow the  
process & share your  
code at the end)

**Submit  
Registered  
Report**  
we are recruiting  
journals now

**Receive  
Confirmatory  
Data**  
(upon peer review)

**Publish!**  
(and share  
code)

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