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Kevin Feng Math + CS '23



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Alyssa Russell History PhD Student

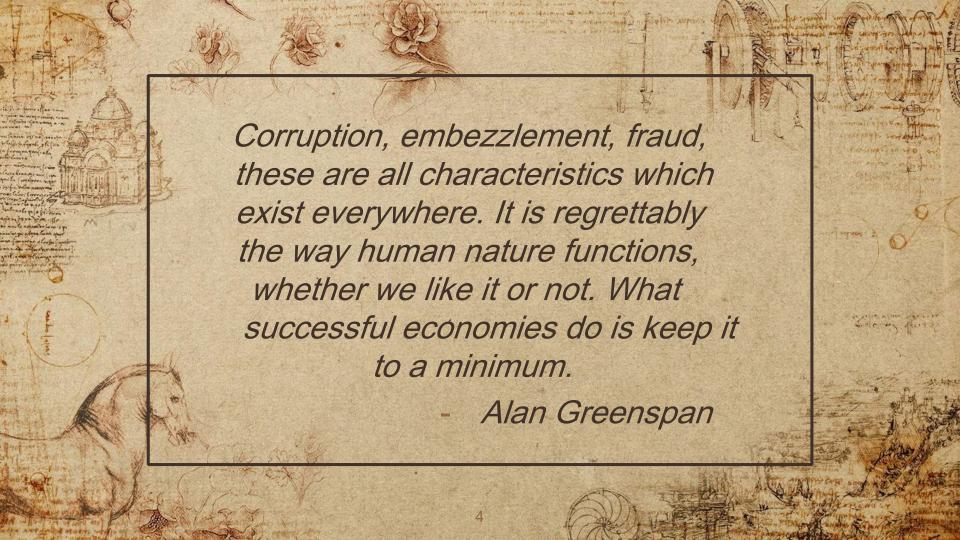
Hello!

We are Project Team 10



Ed Balleisen Professor of History





### Historical Background

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+ Fraud: Prevalent in 19th century US

- + The idea of investor protection
  - \* Financial press and literature
  - \* Third-party monitors
  - \* Government regulatory policy

### Our Purposes

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- Investigate evolving structure and content of financial advice to US investors
- Time period : early 20th century to the birth of the Internet

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### Initial Research Questions

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- What was the effect of the business cycle on the nature of financial advice?
  - How quickly were financial innovations integrated into financial advice?
- + How, if at all, did advice aimed at specific social groups based on race, gender, and class differ?



# Data Scraping methodology

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- Main Database: ProQuest Historical Newspapers
- Download PDFs from ProQuest
- Convert PDFs to texts via OCR (optical character recognition)

### **Data Scraping**

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### Types of Data Sources

Mainstream Newspapers/Mag s

Chicago Daily Tribune

Los Angeles Times

Washington Post

Wall Street Journal

**New York Times** 

Barron's

**Black Newspapers** 

The Baltimore
Afro - American

Philadelphia Tribune **Women Magazines** 

Good Housekeeping

Better Homes and

Gardens

"Chats with Women" in Los Angeles Times Individual Columnists

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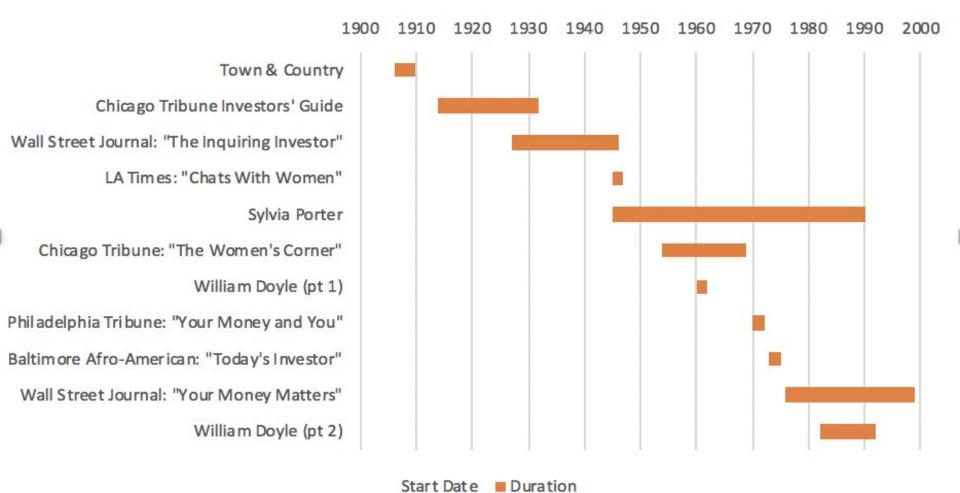
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#### **Timeline of Our Sources**



### Column selection Criteria

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+ Represent different demographics

+ Consistently published

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+ Meet our rubric for relevance

## Data cleaning

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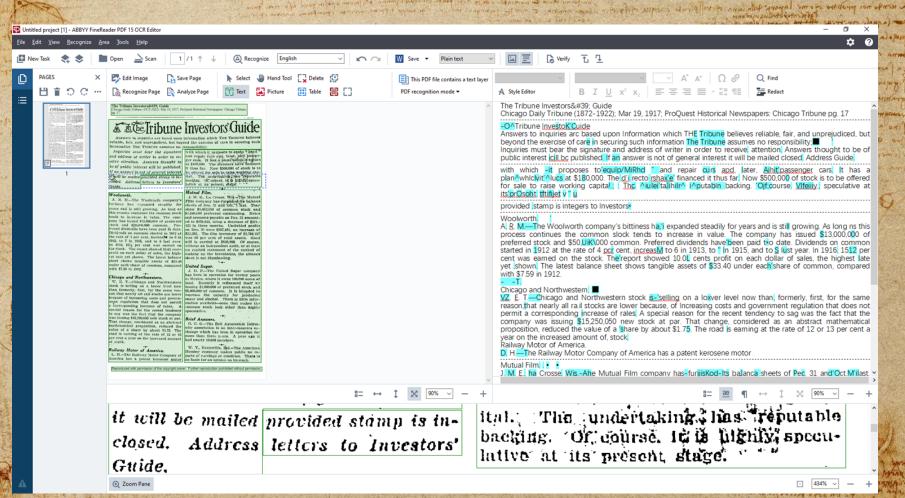
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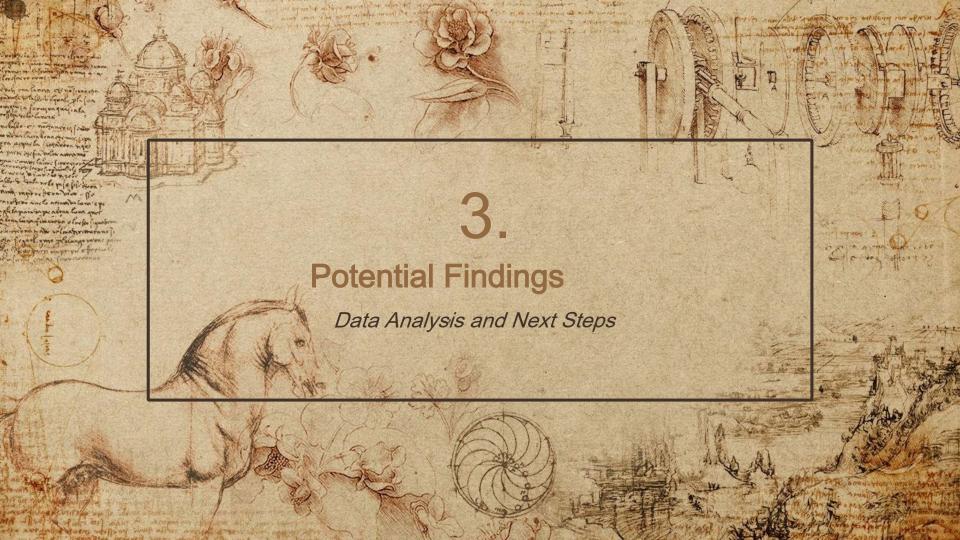
+ Abbyy FineReader and OCR

+ Potential complications

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### Google Ngram visualizations

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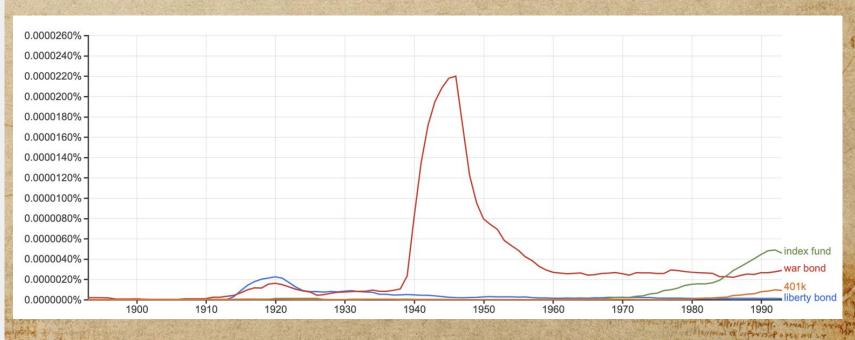
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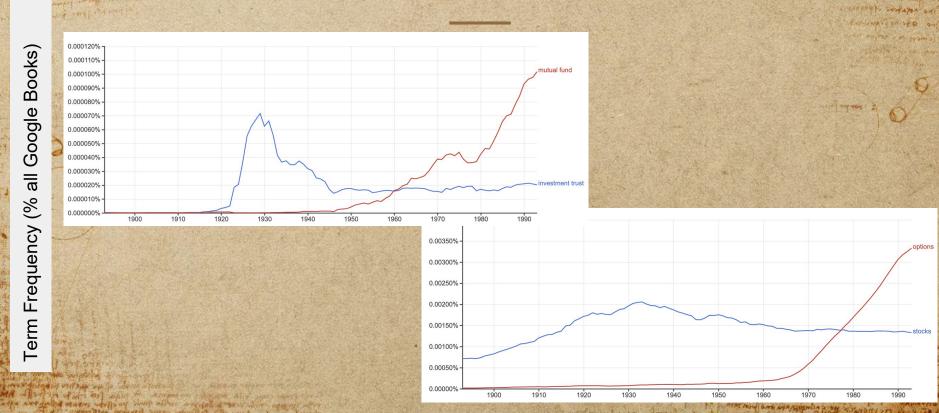
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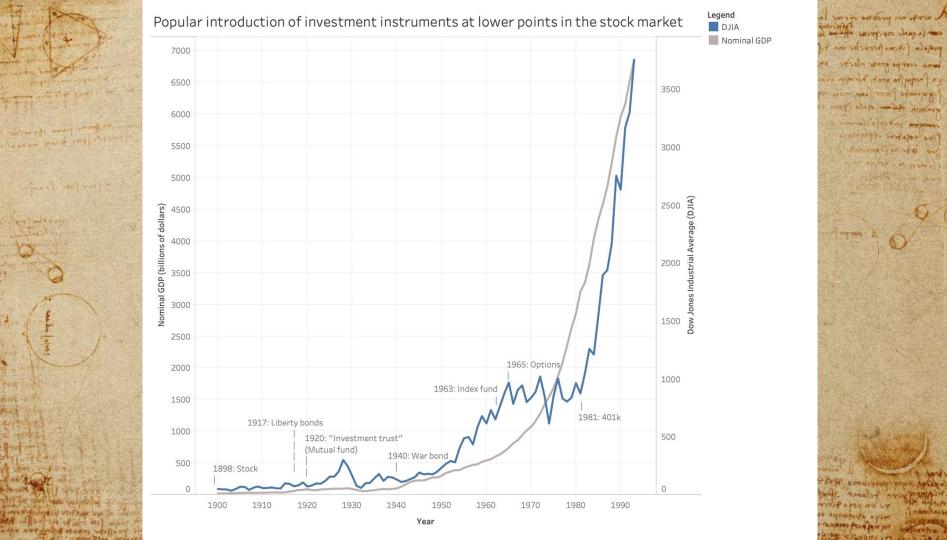


### Google Ngram visualizations

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## Hypotheses

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More conservative advice for black newspapers and women's columns

Investment innovations generate enthusiasm

Types of advice change with business cycle

### **Data Analysis Methods**

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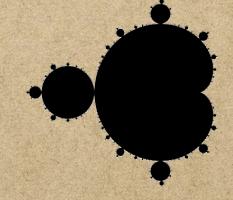
+ Topic Modeling

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- + Sentiment Analysis
- + Token Analysis



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Python textblob package for analysis

## Potential challenges

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+ OCR mistakes and document legibility

Prevalence of certain column entries to investment

Obtaining representative data for all time periods

