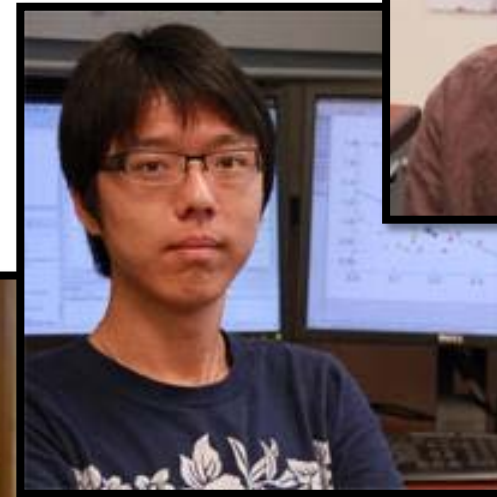


Significance at the Movies

CLARA BOOTHBY

Cross-evaluation of metrics to estimate the significance of creative works (2015)

- Max Wasserman
 - Ph.D. student, Amaral Lab @ Northwestern
 - Applied math and Statistical analysis of sports
- Xiao Han T. Zeng
 - Ph.D. Student, Amaral Lab @ Northwestern
 - Studies scientific publication and citation data and gender disparities in STEM
- Luis Amaral
 - Professor, Amaral Lab @Northwestern
 - Complex systems, Biology



Why I selected this paper

- Politics of Canonization
- Machine Learning



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- Politics of Canonization
- Machine Learning

However!

Why I selected this paper

- Politics of Canonization
- Machine Learning

However!

- Focus on mostly on their **premises**
- Criteria for significance

Significance!

- “Lasting importance of a creative work”
- Latent Quality



Significance!

- “Lasting importance of a creative work”
- Latent Quality
- Induction into the National Film Registry



LIBRARY OF
CONGRESS

Variables!



- Expert Reviews
- Amateur Reviews
- Automated Data

Variables!



- Expert Reviews
- Amateur Reviews
- Automated Data
- CITATION DATA!!

Methods

- Single Variable Analysis
- Multi-variable Analysis
 - Random-forest



To select features that could predict significance (i.e. inclusion in the NFR)

Example: Willy Wonka

June 27, 2014: Paper received

- Willy Wonka (1971) is not in the NFR
- BUT it has a high long-gap citation rate



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December ?, 2014: Willy Wonka
inducted into the NFR



The National Film Registry

- 700 films total; 25 new films each year; Films must be >10 years old to be eligible
- Public nominates films; Librarian of Congress and National Film Preservation Review Board make final selections
- 40 films were directed by women. No accessible data about racial demographics of the directors

Questions

- What new insights or information does this method provide to us that we could not have been learned otherwise?
- Considering what we know of the method, do you feel that this method truly measures significance? Why or why not?
- What responsibilities do scholars have when working on projects that intersect with another field?