Academic Analytics

Homewood Faculty Assembly

February 6\textsuperscript{th} 2020
Timeline

Academic Analytics


4. Presentations to Deans and access given in May 2019.

What is Academic Analytics?

1. AA has two products:
   a) “Admin Tools” to which JHU subscribes for BSPH, KSAS and WSE.
   b) “Faculty Insights” (A CV builder which was not purchased).

2. Database of information which is:
   a) Publically available.
   b) Independently verifiable, error quantifiable.
   c) Mechanically collected.
Academic Analytics

Key points

• ~440 PhD-granting institutions in U.S.

• ~380,000 faculty
  - Primarily tenure/tenure-track
  - Non-tenure-track faculty included at institution’s discretion

• Individual faculty serve as unit of record
  - Scholarship tied to individual, regardless of institutional affiliation

• Scholarship data from comprehensive, curated sources
  - Faculty roster is only information supplied by institutions

• Distinct portal views
  - Benchmarking: point-in time comparisons
  - Research Insight: real-time exploration and discovery

• Parameterized by time windows and specific areas of scholarship
  - Best used for formative purposes, not summative evaluation
Academic Analytics

Academic Analytics should complement institutional knowledge and local data

Academic Analytics is...
- NOT a public ranking
- NOT a “score” for individual faculty members
- NOT a replacement for other types of knowledge
- NOT a CV replication database
Process

How is AA Used in the Provost’s Office?

1. Forms one component of putting a department into context:
   a. For BSPH, KSAS and WSE; AA overview of the field and department, including comparisons with other similar departments, used along with internal and external reviews of the department.
   b. more refined than coarse measures like rankings

2. Not used to evaluate individual faculty members.
AA Peer Analysis Portal (Benchmarking Suite)
Process

Who uses AA currently?

1. Provost’s Office: for putting departments into context

2. Within the BSPH, KSAS and WSE;
   a) WSE: used by dean’s office, being evaluated by department chairs
   b) KSAS: deans office doing benchmarking/calibration.
   c) BSPH: deans office still evaluating.
Transparency

1. Deans (BSPH, KSAS and WSE) have access.

2. Department chairs/heads can get access once deans offices have finished calibration.

3. For the Homewood Schools, faculty members who wish to see their own AA profile may ask their Dean’s Office for a PDF of the AA data.
Accuracy and objectivity

1. Accuracy (for an individual faculty member).
   a. Articles – high degree of correlation.
   b. Awards – modest, depending on level.
   c. Books – ?
   d. Citations – reasonable correlation.
   f. Grants – misses subcontracts (can be 10x off).

2. Objectivity
   a. Data scraped from public sources.
Data Overview

Comparative and Detail Data 2019 Coverage

- Conference Proceedings: 2015 - 2018
- Journal Articles: 2015 - 2018
- Citations: 2014 - 2018
- Grants: 2014 - 2018
- Books: 2009-2018
- Honorific Awards: Varies by Award - 2018
- Patents
- Book Chapters
- Clinical Trials

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The University of Texas System
The University of Utah
The University of Vermont
University of Virginia
University of Wisconsin - Madison
University of Wyoming
Vanderbilt University
Virginia Polytechnic Institute and State University (Virginia Tech)
Washington University in St. Louis
Wayne State University
Next Steps

• JHU users will be required to sign “Usage Agreement” which will define for what purposes and how they may use Academic Analytics.

• Agreements to be administered by JHU Institutional Research (Provost’s Office).

• Will work with Deans offices and Homewood Academic Council to develop the usage agreement.
Questions?