Academic Analytics

Homewood Faculty Assembly

February 6th 2020

Timeline

Academic Analytics

1. Procured AA in 2011. Not used. Contract expired in 2012.
2. Procured “Admin Tool” from AA in June 2018.
3. Made available to Provost’s Office in spring 2019.
4. Presentations to Deans and access given in May 2019.
5. Deans’ Offices began evaluation/usage AY19/20.

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

Academic Analytics should complement institutional knowledge and local data

Academic Analytics is…

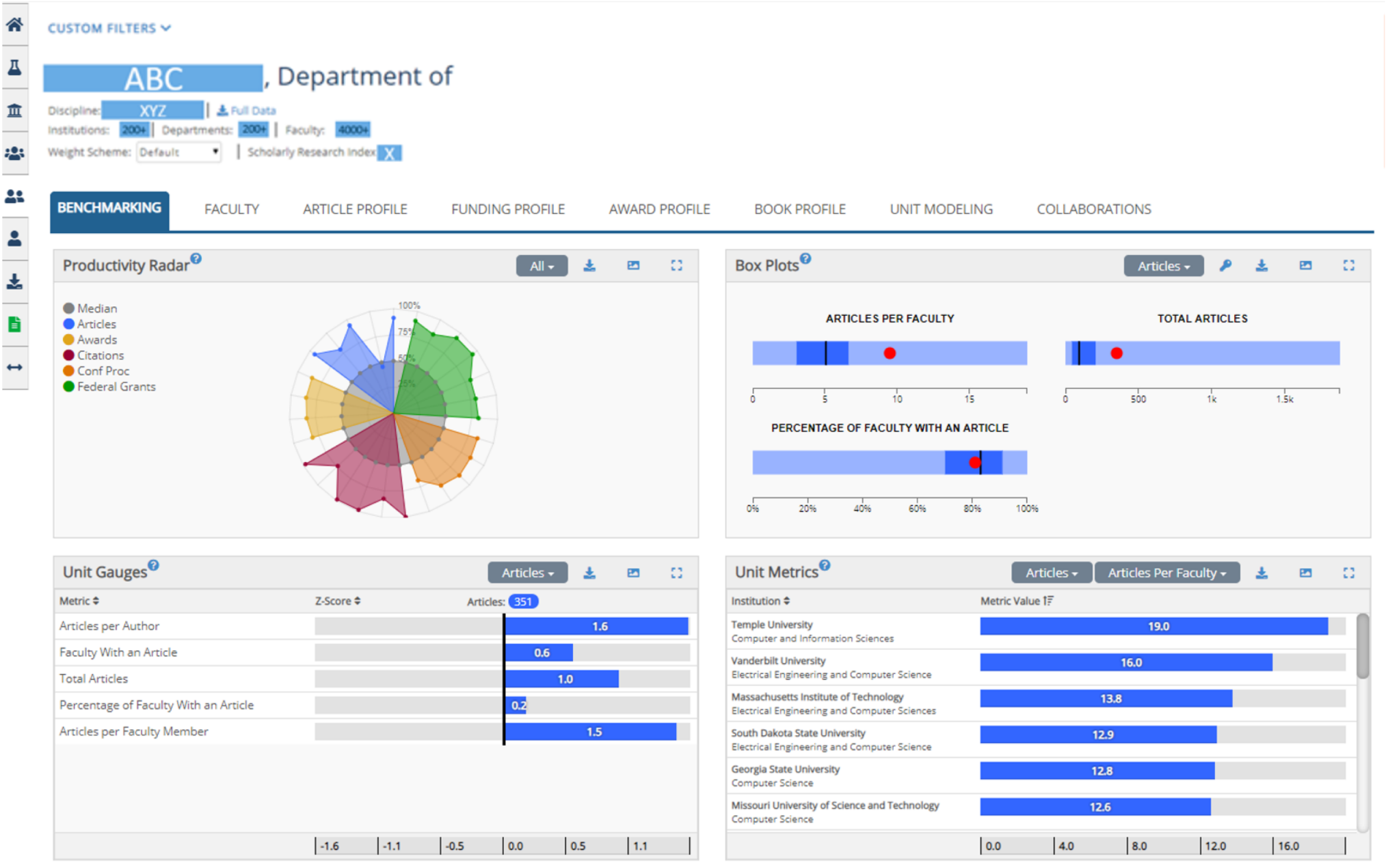
- …NOT a public ranking
- …NOT a "score" for individual faculty members
- …NOT a replacement for other types of knowledge
- …NOT a CV replication database

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

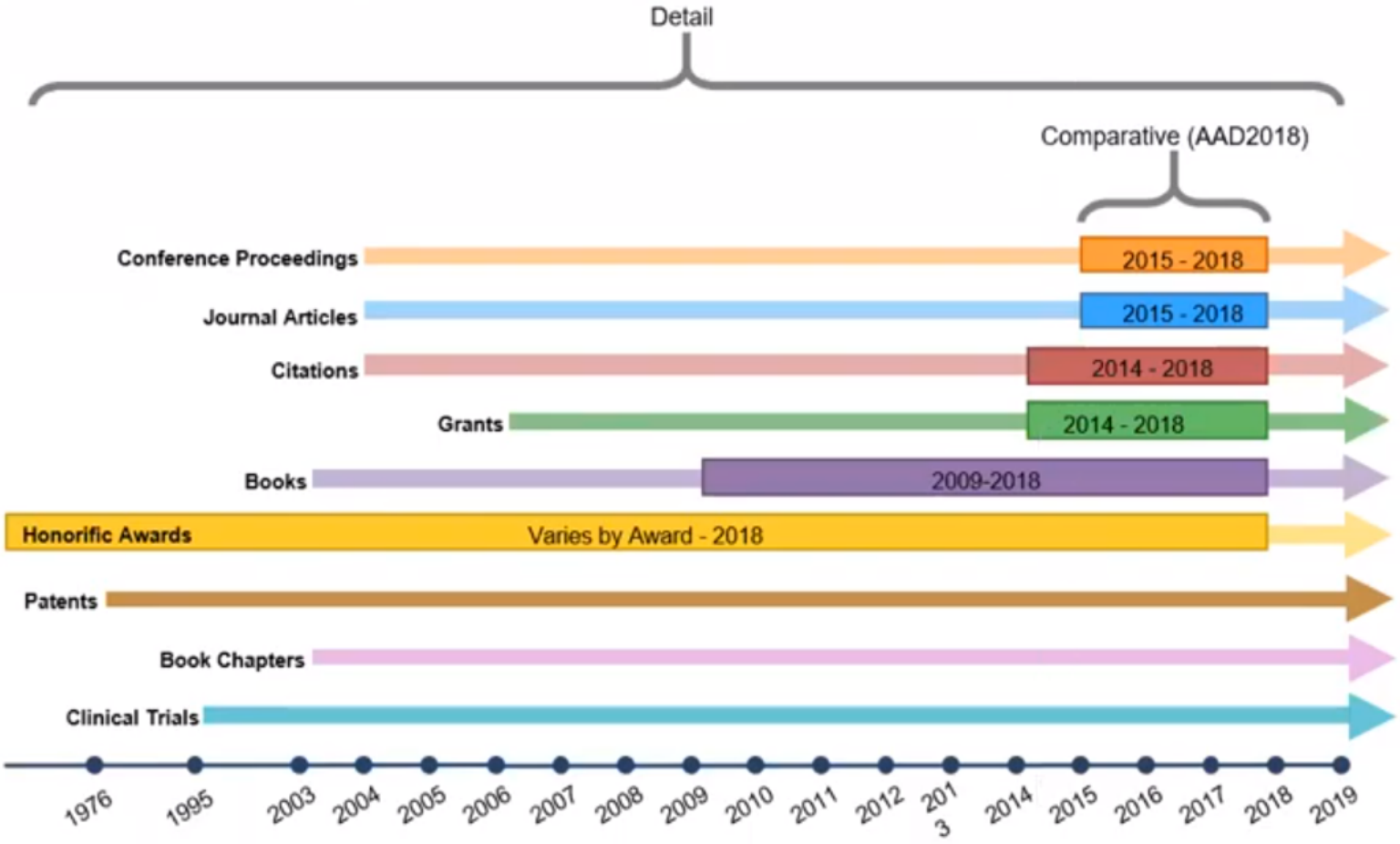
1. Deans (BSPH, KSAS and WSE) have access.
2. Department chairs/heads can get access once deans offices have finished calibration.
3. For the Homewood Schools, faculty members who wish to see their own AA profile may ask their Dean's Office for a PDF of the AA data.

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.
   e. Conference Proceedings – modest, field dependent (no ArXiv).
   f. Grants – misses subcontracts (can be 10x off).
2. Objectivity
   a. Data scraped from public sources.

Data Overview

Comparative and Detail Data 2019 Coverage



Academic Analytics' Subscribers

American Psychological Association
Auburn University
Baylor University
Boston University
Brown University
Case Western Reserve University
Clemson University
Cornell University
Duke University
East Carolina University
Emory University
Florida International University
Florida State University
Georgia Institute of Technology (Georgia Tech)
Georgia State University
Indiana University Bloomington
Indiana University - Purdue University Indianapolis
Institute of International Education
Iowa State University
Johns Hopkins University
Massachusetts Institute of Technology (M.I.T.)
Michigan State University
Mississippi State University
Missouri University of Science & Technology
Montana University System
Montana State University
North Carolina State University
Northeastern University
Northern Arizona University
Oak Ridge National Laboratory
The Ohio State University
Ohio University
Oregon State University
Princeton University
Purdue University
Rice University
Rochester Institute of Technology
Rutgers University - New Brunswick
Stony Brook University - The State University of New York
Syracuse University
Texas A&M University
Texas Tech University
Tufts University
Tulane University
The University of Alabama
The University of Arizona
University of Arkansas - Fayetteville
University at Buffalo - The State University of New York
University of California - Irvine
University of California - San Diego
University of California - Santa Cruz
University of Central Florida
The University of Chicago
University of Colorado Boulder
University of Connecticut
University of Delaware
University of Florida
University of Georgia
University of Hawaii - Manoa
The University of Illinois at Chicago
University of Illinois - Urbana-Champaign
The University of Kansas
University of Kentucky
University of Maryland - College Park
University of Massachusetts - Amherst
University of Memphis
University of Miami
University of Minnesota
University of Mississippi
University of Missouri - Columbia
University of Missouri - Kansas City
University of Missouri - St. Louis
University of Missouri - System
University of Nebraska - Lincoln
University of New Hampshire
University of North Carolina - Charlotte
University of North Carolina - Greensboro
University of Pennsylvania
University of Pittsburgh
University of Rochester
University of South Carolina
University of South Florida
The University of Tennessee - Knoxville
The University of Texas at Arlington
The University of Texas at Austin
The University of Texas at Dallas
The University of Texas at El Paso
The University of Texas Rio Grande Valley
The University of Texas at San Antonio
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

ACADEMIC ANALYTICS

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?