

Reaching Beyond Research

How a **Research Information Management System**
Can Empower your Analytics and Energize your Outreach



Agenda

- How We Use RIMS
- About Digital Science
- Ohio Innovation Exchange (OIEx) and Symplectic Elements
- About the Ohio Innovation Exchange
- Analytics, Outreach and Culture at OIEx
- Benefits of Symplectic Elements



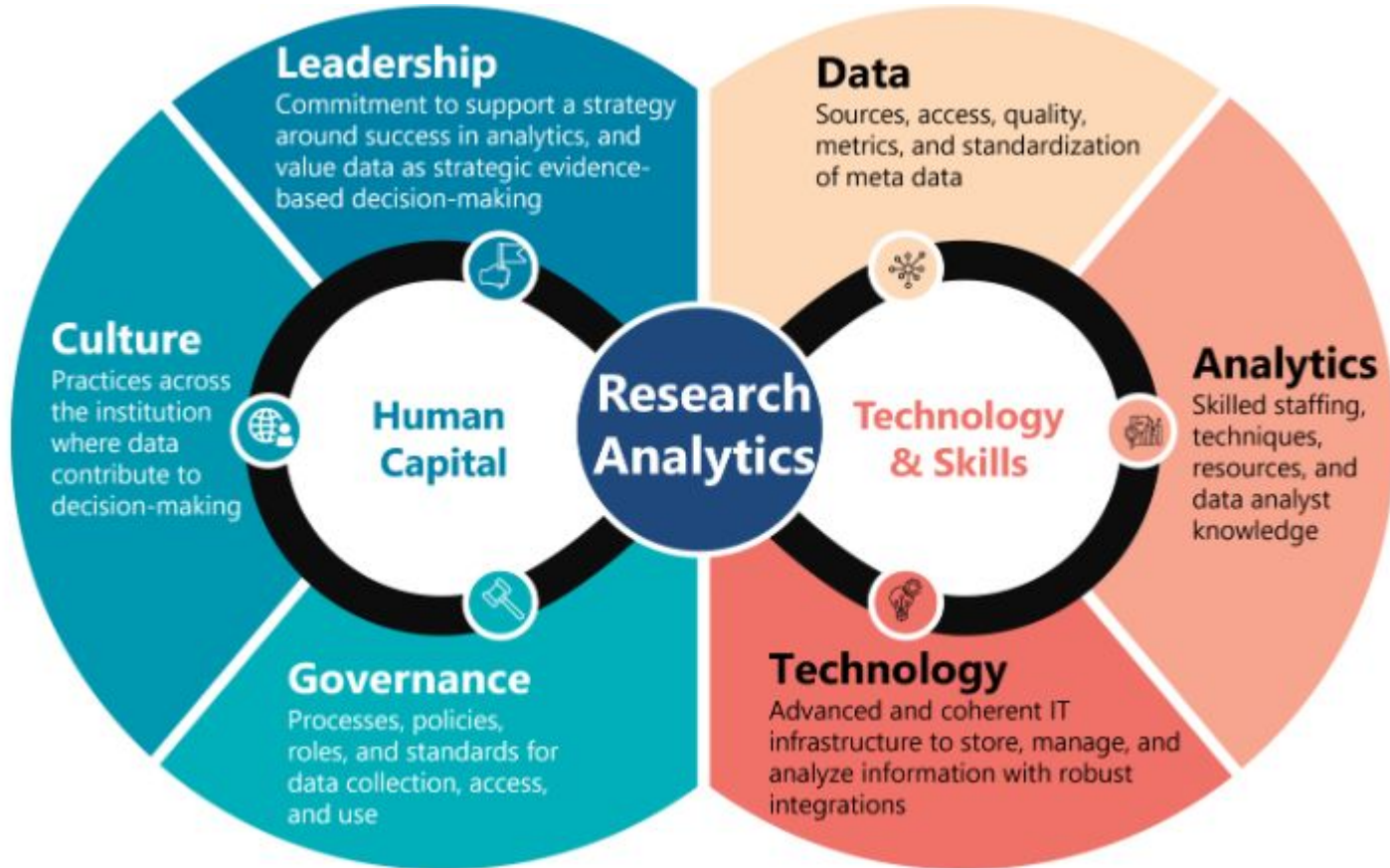
Jeff Agnoli

Senior Liaison for
Strategic Partnerships,
Office of Corporate
Partnerships, Ohio
Innovation Exchange



Alexandra Winzeler

Business Development
Manager
Digital Science

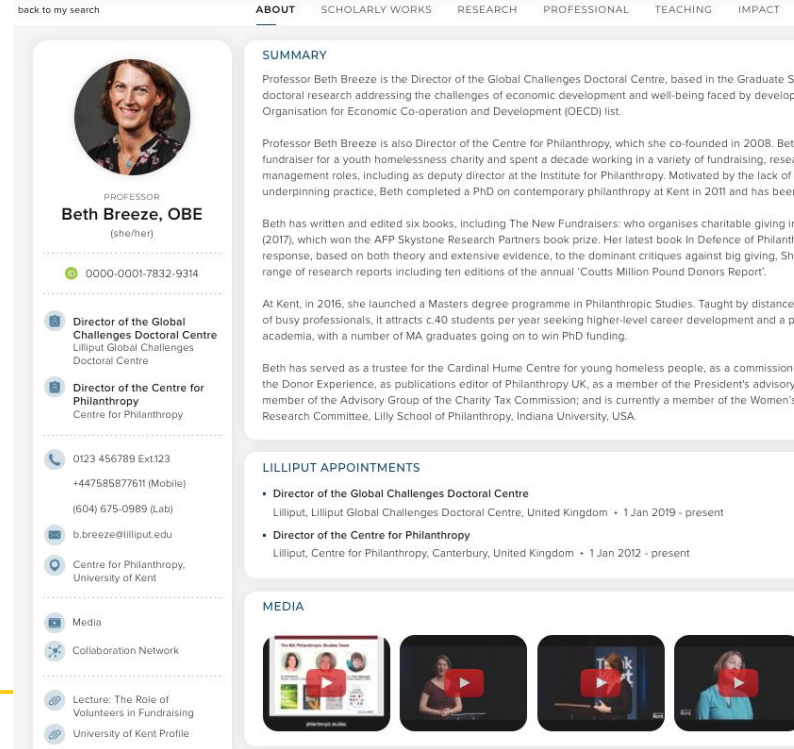


How We Use RIMS

Research Information Management System

RIMS facilitates your ability to:

- Collect & curate research outputs on profiles
- Highlight achievements from your researchers
- Showcase equipment and services
- Report on trends and metrics
- Support wider strategies for Open Access, faculty reviews, academic repositories, and funding workflows



The screenshot shows a researcher profile for Professor Beth Breeze, OBE. The profile includes a navigation menu with tabs for ABOUT, SCHOLARLY WORKS, RESEARCH, PROFESSIONAL, TEACHING, and IMPACT. The main content area is divided into several sections:

- ABOUT:** A circular profile picture of Professor Breeze, followed by her name and title, and a contact number (0000-0001-7832-9314).
- SUMMARY:** A paragraph describing her role as Director of the Global Challenges Doctoral Centre and her research interests in economic development and well-being.
- RESEARCH:** A list of her research roles, including Director of the Global Challenges Doctoral Centre and Director of the Centre for Philanthropy.
- TEACHING:** Contact information including a phone number (0123 456789 Ext.123) and an email address (b.breeze@lilliput.edu).
- IMPACT:** A list of her appointments, including Director of the Global Challenges Doctoral Centre and Director of the Centre for Philanthropy.
- MEDIA:** A row of four video thumbnails, each with a red play button icon.

About Digital Science

- Pioneering technology company advancing the research ecosystem
- Solutions that support strategy, collaboration, funding, workflows, integrity
- Symplectic Elements is one solution from Digital Science used by:
 - 120+ research organizations
 - 50+ grant-making organizations
 - 15 countries
 - 350,000 researchers

[Learn more about Digital Science](#)

 Dimensions

 Symplectic


 Overleaf

 Altmetric

 Figshare


 Writefull

 Metaphacts

 Readcube

 Scismic

 IFI Claims

 Consultancy

 Ontochem

Ohio Innovation Exchange (OIEx) & Symplectic Elements



- Showcases a network of universities research experts
- Facilitates collaboration between academia, industry partners, peers, and students
- Generates Elements profiles with research outputs (publications, grants, media)
- Curates public search solution for research equipment/services, centers, patents, etc.

[Learn more about OIEx and Elements](#)

About the OIEx

- 10+ Universities
- 10K+ Researcher Profiles
- 2,000+ Equipment & 740+ Research Services
- 31K+ Patents over the last 10 years, etc.
- Industry Liaisons from partner universities
- Trade associations, industry partners, and economic developers

[Learn more about the Ohio Innovation Exchange](#)

About the OIEx - Leadership Team

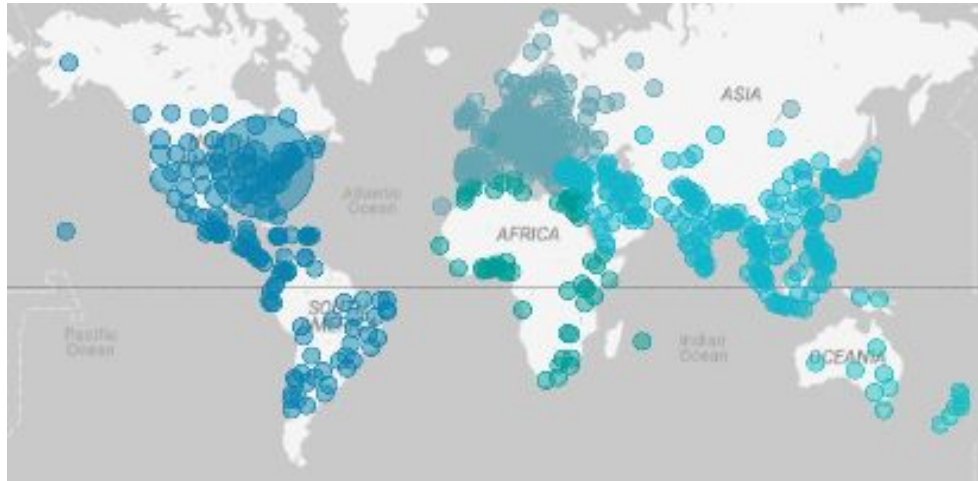
- **Charles See**, Deputy Chief of Staff, Vice Chancellor for Strategic Partnerships and Education Technology, Ohio Department of Higher Education
- **Tim Cain**, Executive in Residence, Associate Professor, Ohio University
- **Jeff Smith**, Director of the Shared Infrastructure, OH-TECH (Ohio Technology Consortium)
- **Jeff Agnoli**, Senior Liaison, Strategic Partnerships, The Ohio State University

About the OIEx - Governance



- Leadership Team charts the primary direction of the OIEx; funding comes from multiple sources including Ohio's Third Frontier Research Incentive grant program
- Collaborate with industry liaisons from partner universities
- Regular updates/metrics shared with Research Officers' Council (ROC)
 - Typically the Vice President for Research or their designee(s)
 - Includes public & private universities engaged in research

- Google Analytics tracks total pageviews, up to 20K+/month, countries/states/cities, 36K+ users, top profile, equipment, and patent pages
- Up to 20K page views each month from across the globe



Outreach and Engagement

- Through LinkedIn, we promote research, innovation and discovery to a 2,000+ audience
 - Contact Us email manages requests from faculty, industry, startups, etc.
 - Example Industry Engagement Outcomes
 - Sponsorship for fellowship; seeking subcontractors/proposal collaborators
 - Talent and workforce development
 - Recognition for clinical research faculty
 - Industry Equipment lease agreement
 - Business plan reviews for start-ups
-

Analytics Reports | The Ohio State University



Sources: Ohio State Office of Academic Affairs & Graduate School;
Benson Lindsey, Office of Technology and Digital Innovation and Jay Johnson,
Office Institutional Research and Planning

Interactive Industry Engagement

Corporate Partner Summary | Corporate Partner Detail | Rank View | Aliases List | Data Source Info

Corporate Activity Overview

Selected Partner

★ = Top Activity Category

\$0

Research Expenditures

FY18-FY22

Source: Workday

\$0

Clinical Trial Expenditures

FY18-FY22

Source: Workday

\$3,936,892

Recent Giving

FY18-FY22

Source: Advancement

\$0

Licensing Revenue

FY18-FY22

Source: InnovateIP

254★

Intern/Co-Op Hires

FY17-FY21

Source: College Offices

288★

Full Time Hires

FY18-FY22

Source: Grad Survey

4,042★

Alumni Employees

FY18-FY22

Source: Advancement

0 sqft

Leased Space

FY18-FY22

Source: PARE

\$0

Purchasing Spend

FY22

Source: Workday

0

Master Agreement(s)

Active as of 6/14/2023

Source: OSP

5

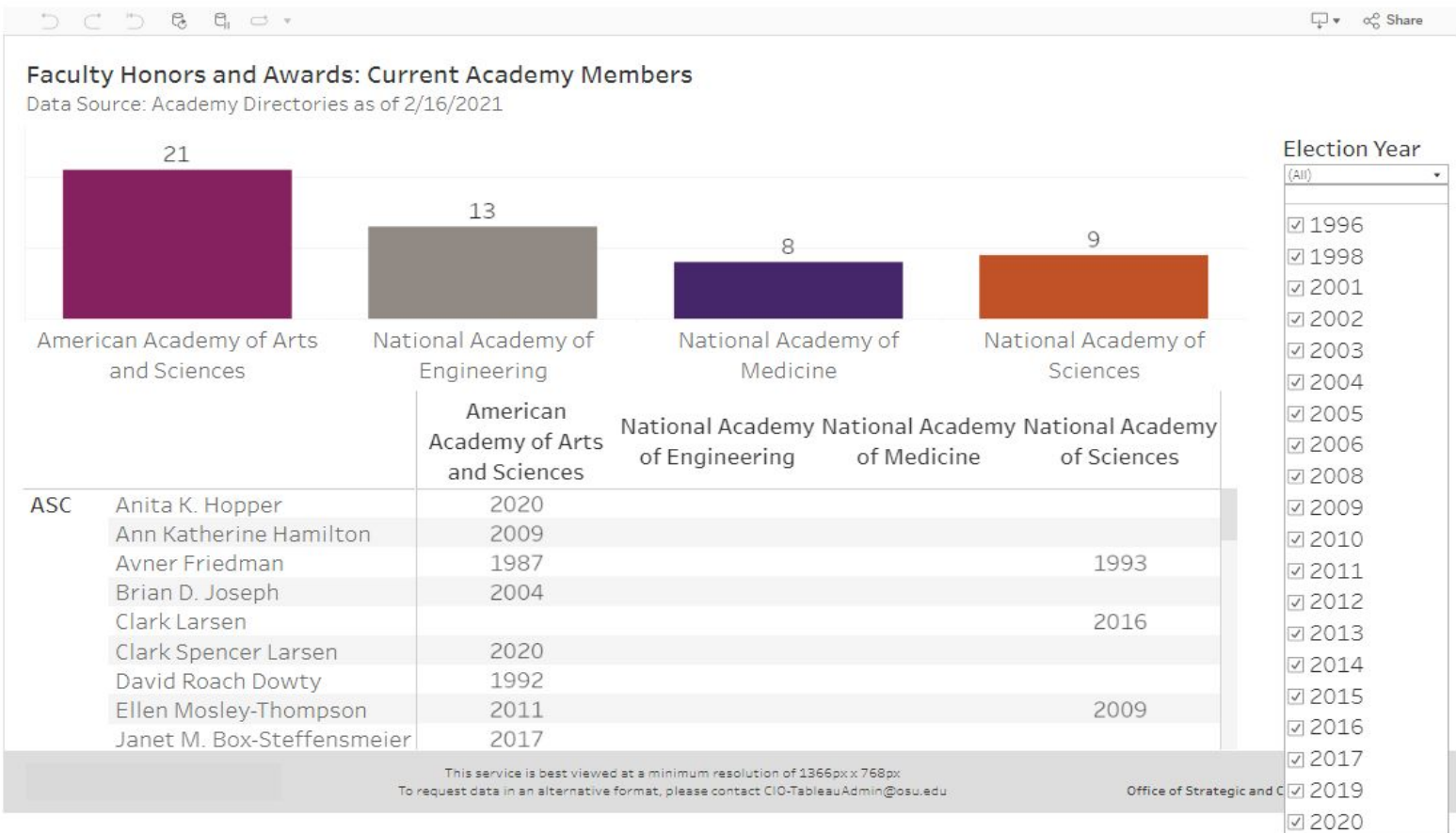
Salesforce Opportunities

FY22

Source: Salesforce

Honorific Awards

Faculty Awards | Office of Academic Affairs, The Ohio State University



Student Engagement

- Ohio State and the Coalition for Next Generation Life Sciences
 - Understand performance of graduate programs
 - Improves academic and nonacademic career growth; assists with proposal development, e.g., research output
 - Research Analytics Dashboards/Reports:
 - Student and Program
 - PhD and Master's Alumni Outcomes
 - Post-Doc Alumni Outcomes
 - [OSU Data and Assessment](#)
 - [NGLS Coalition](#)

High Impact Practices



NSSE 2022 High-Impact Practices

About This Report

About Your High-Impact Practices Report

Due to their positive associations with student learning and retention, certain undergraduate opportunities are designated "high-impact." High-Impact Practices (HIPs) share several traits: They demand considerable time and effort, facilitate learning outside of the classroom, require meaningful interactions with faculty and students, encourage collaboration with diverse others, and provide frequent and substantive feedback. As a result, participation in these practices has the potential to be very influential and rewarding (Kilgo et al., 2015; Kuh, 2008). NSSE founding director George Kuh recommends that institutions should aspire for all students to participate in at least two HIPs over the course of their undergraduate experience—one during the first year and one in the context of their major (NSSE, 2007).

NSSE asks students about their participation in the six HIPs shown in the box at right. Unlike most questions on the NSSE survey, the HIP questions are not limited to the current school year. Thus, senior students' responses include participation from prior years.

High-Impact Practices in NSSE

Service-Learning

Courses that included a community-based project

Learning Community

Formal program where groups of students take two or more classes together

Research with Faculty

Work with a faculty member on a research project

Internship or Field Experience

Internship, co-op, field experience, student teaching, or clinical placement

Study Abroad

Culminating Senior Experience

Capstone course, senior project or thesis, portfolio, recital, comprehensive exam, etc.

Report Sections

Participation Comparisons (p. 3)

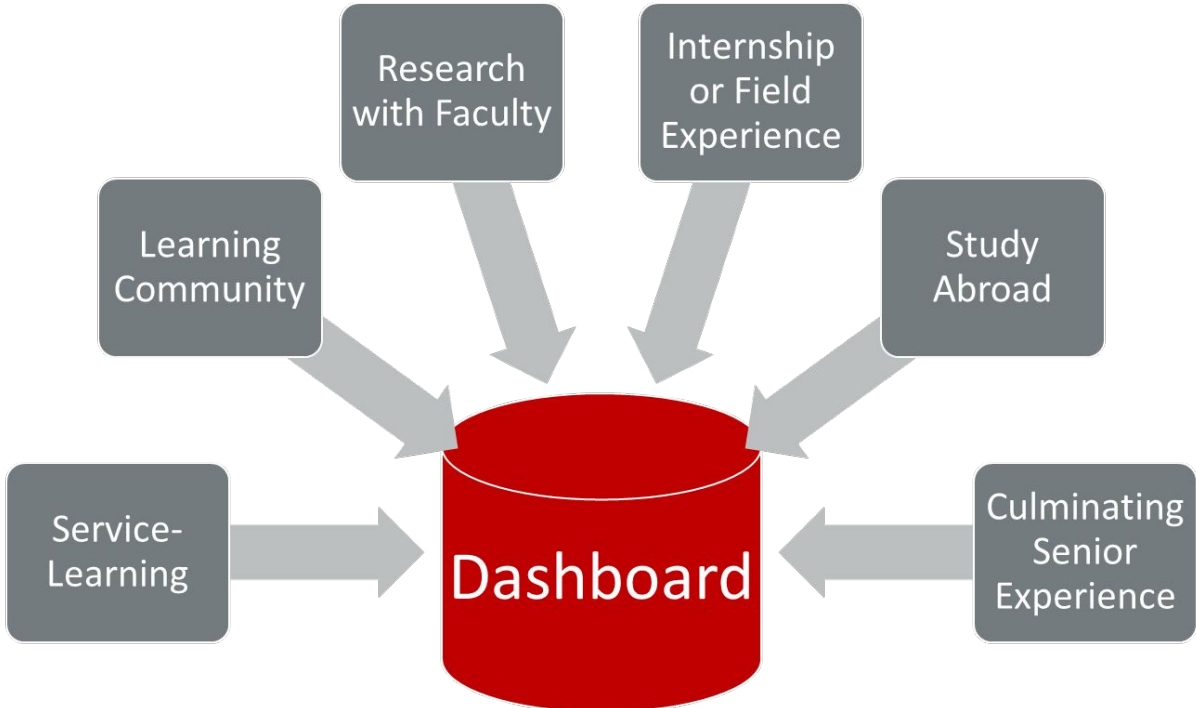
Displays HIP participation for your students compared with that of students at your comparison group institutions. Two views present insights into your students' HIP participation:

Overall HIP Participation

Displays the percentage of students who participated in one HIP and in two or more HIPs, relative to those at your comparison group institutions.

Statistical Comparisons

High Impact Practices



High Impact Practices - Cumulative Participation Breakdown

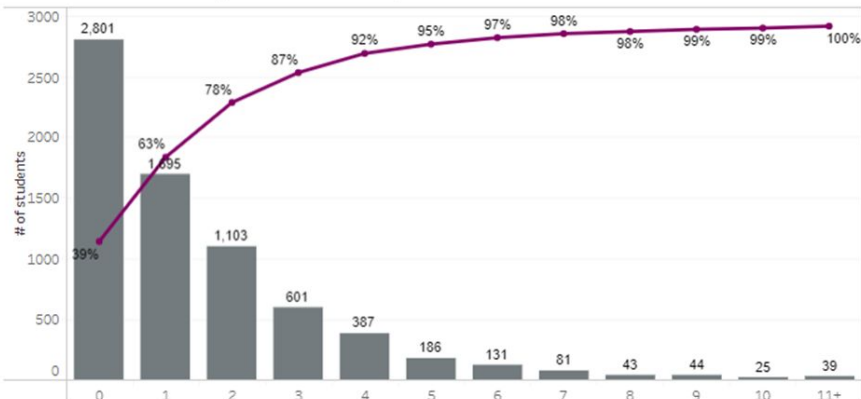
Cohort	Cohort Size	Year 1		Year 2		Year 3		Year 4	
		Participants (cumul.)	% of initial cohort	Participants (cumul.)	% of initial cohort	Participants (cumul.)	% of initial cohort	Participants (cumul.)	% of initial cohort
2017	7136	1,768	24.8%	3,665	51.4%	4,059	56.9%	4,335	60.7%
2018	7851	2,558	32.6%	4,266	54.3%	4,433	56.5%		
2019	7630	2,240	29.4%	3,675	48.2%				
2020	8602	2,193	25.5%						
Grand Total		8,759	28.1%	11,606	51.3%	8,492	56.7%	4,335	60.7%

Demographics: Race/Ethnicity by Sex

2017 Cohort as Seniors

		Cohort Size	# of participants	# of HIPs	Avg HIPs per Student	% Participation
American Indian/Native Alaskan	Female	3	2	5	1.67	66.7%
	Male	1	0	0	0.00	0.0%
Asian	Female	289	188	576	1.99	65.1%
	Male	281	133	366	1.30	47.3%
Black or African American	Female	217	133	401	1.85	61.3%
	Male	129	57	149	1.16	44.2%
Hispanic	Female	188	110	316	1.68	58.5%
	Male	154	66	178	1.16	42.9%
Native Hawaiian/Pac. Islander	Male	1	0	0	0.00	0.0%
Non-Resident Alien	Female	265	90	157	0.59	34.0%
	Male	323	48	108	0.33	14.9%
None Given/Race Unknown	Female	128	76	233	1.82	59.4%
	Male	167	75	198	1.19	44.9%
Two or More Races	Female	163	108	287	1.76	66.3%
	Male	116	55	142	1.22	47.4%
White	Female	2,422	1,491	4,200	1.73	61.6%
	Male	2,289	969	2,316	1.01	42.3%
Grand Total		7,136	3,601	9,632	1.35	50.5%

Distribution: HIPs per student - 2017 Cohort as Seniors



Cohort: 2017

Rank: Seniors

Demographic Level 1: Race/Ethnicity

Demographic Level 2: Sex

Select HIPs: (All)

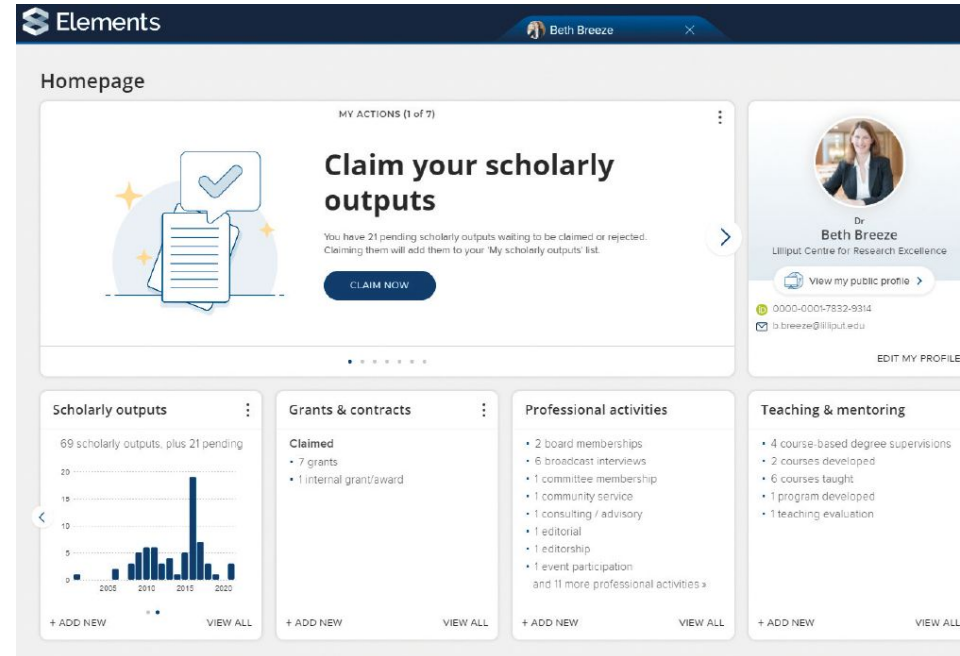
- Buck-I-Serv ✓
- Buckeye Leadership Fellows ✓
- Internship ✓
- Non-Profit Immersion Program ✓
- Scholars Program ✓
- Service Learning ✓
- STEP ✓
- Student Life LC ✓
- Study Abroad ✓
- Undergrad Research (credit) ✓
- Undergrad Research (paid) ✓

Benefits of Symplectic Elements

Continuous, Automated Capture of Research Outputs

- Populate researcher profiles before their first login
- Auto-claim research objects based on user identifiers
- Harvest publications and grants from external sources
- Import data from on-campus systems

[Learn more about Symplectic Elements](#)



The screenshot shows the 'Elements' dashboard for a user named Beth Breeze. The main section is titled 'Claim your scholarly outputs' and features a 'CLAIM NOW' button. Below this, there are four panels: 'Scholarly outputs' with a bar chart showing 69 outputs and 21 pending; 'Grants & contracts' with 7 claimed grants; 'Professional activities' with 11 activities; and 'Teaching & mentoring' with 6 activities. The user's profile information is visible on the right side.

Elements Beth Breeze

Homepage

MY ACTIONS (1 of 7)

Claim your scholarly outputs

You have 21 pending scholarly outputs waiting to be claimed or rejected. Claiming them will add them to your 'My scholarly outputs' list.

CLAIM NOW

Scholarly outputs

69 scholarly outputs, plus 21 pending

20
15
10
5
0

2005 2010 2015 2020

+ ADD NEW VIEW ALL

Grants & contracts

Claimed

- 7 grants
- 1 internal grant/award

+ ADD NEW VIEW ALL

Professional activities

- 2 board memberships
- 6 broadcast interviews
- 1 committee membership
- 1 community service
- 1 consulting / advisory
- 1 editorial
- 1 editorship
- 1 event participation and 11 more professional activities >

+ ADD NEW VIEW ALL

Teaching & mentoring

- 4 course-based degree supervisions
- 2 courses developed
- 6 courses taught
- 1 program developed
- 1 teaching evaluation

+ ADD NEW VIEW ALL

Dr Beth Breeze
Liliput Centre for Research Excellence

View my public profile >

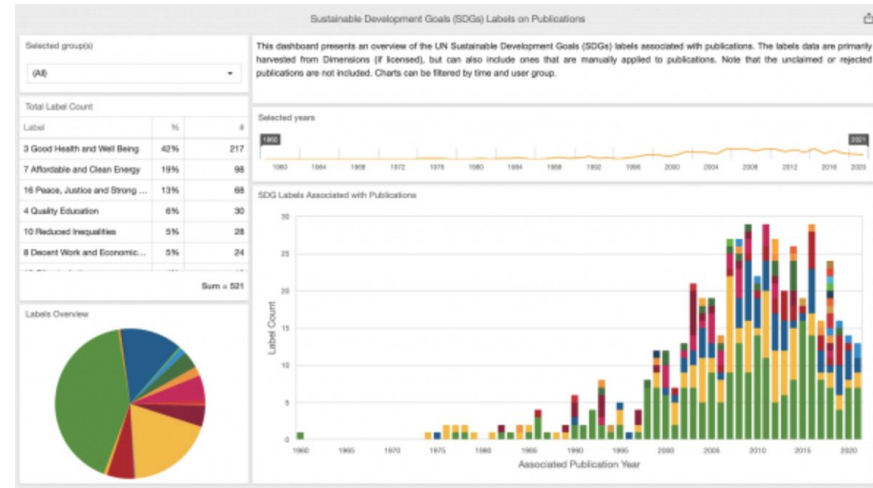
0000-0001-7832-9314
b.breeze@liliput.edu

EDIT MY PROFILE

Benefits of Symplectic Elements

Map Research Outputs to Strategic Goals

- Build and share custom reports, dashboards, visualizations
- Narrow by keywords, trends, subject areas, and initiatives
- Tracking progress on Sustainable Development Goals (SDGs)
- Track your organization's unique goals



[Learn more about SDGs in Elements](#)

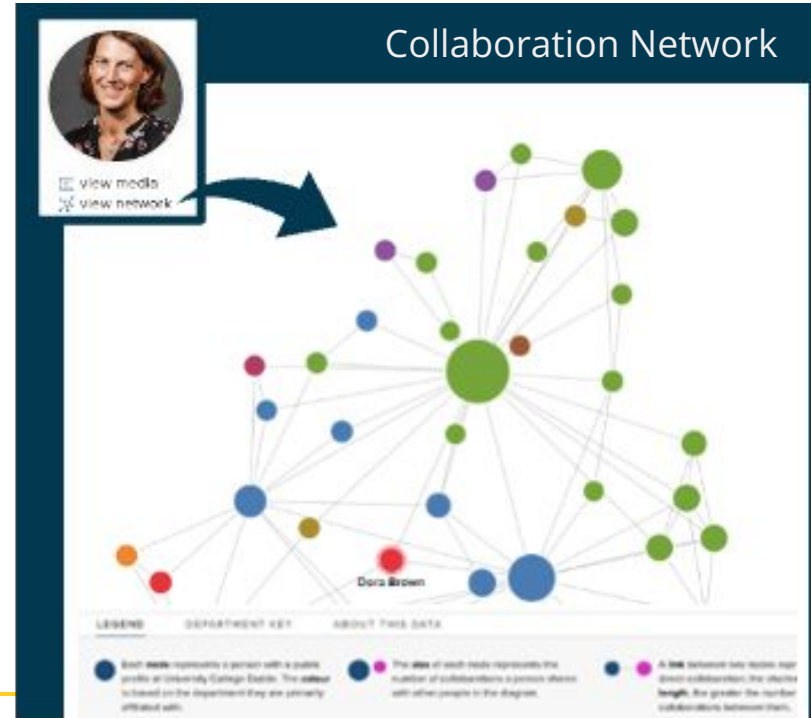
[Learn more about Elements Dashboards](#)

Benefits of Symplectic Elements

Elements Discovery for Public Profiles

- Professional, accessible display
- Search engine optimized
- Repository integrations
- Collaboration Network map
- Discover colleagues and peers
- Be discovered by project partners

[Learn more about Discovery profiles](#)



An aerial photograph of a winding asphalt road that curves through rolling green hills. The sun is low on the horizon, creating a warm, golden glow and long shadows across the landscape. The hills are covered in lush green grass, and the road is bordered by a simple fence. The overall scene is peaceful and scenic.

Lessons and Recommendations



THANK YOU

www.digital-science.com

www.ohioinnovationexchange.org

