

2024 Annual Conference

Leading International Education at a Crossroads Curating Data to Inform Strategic Global Engagement: *Overcoming Challenges, Leveraging Opportunities*

Tim Barnes

Executive Director of International Partnerships & Research, University of Kentucky

Megan Bennett-Spears

Associate Director of International Partnerships, University of Rochester

Mitchell Snider, PhD

Data and International Agreements Manager, University of Kentucky



international student recruitment

education abroad enrollment/demographics

international research collaborations

international student enrollment

international alumni

international licensing/technology transfer

international faculty/staff visiting scholars faculty/staff

international co-authorships

global healthcare/clinical activities

global investment portfolio

international online education

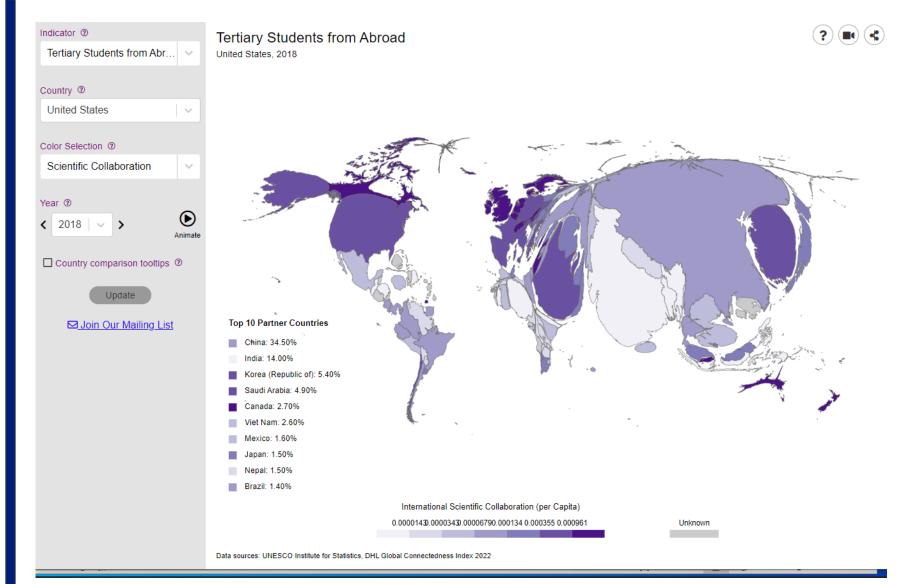
AWASH IN A SEA) DATA

... but how to use it?



Increasingly sophisticated tools can curate and visualize vast amounts of data in ways that lead to new insights, and inform new strategies

#AIEA2024



https://globalization.stern.nyu.edu/maps?country=USA&indicator=stu&year=2018&color=choropleth&colorby=dcol

AFEA

Incidental Campus Internationalization



Intentional Campus Internationalization

You can't plan your route unless you know where you are now, and where you want to end up.

#AIEA2024

Access to good, timely, well-organized and presented data is critical to this institutional self-awareness

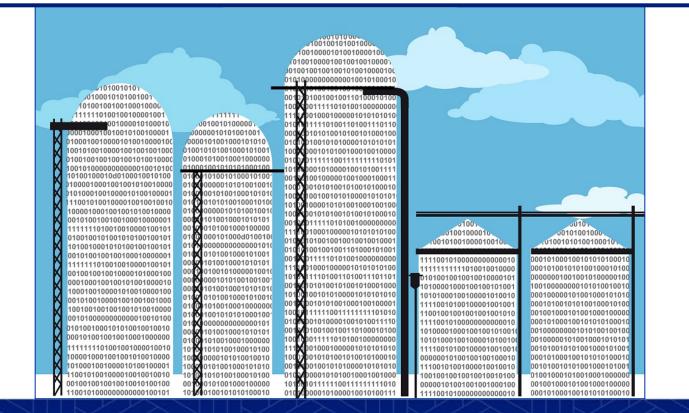
AFEA

Data Silos

#AIEA2024



Data Integration





Third-Party Solutions



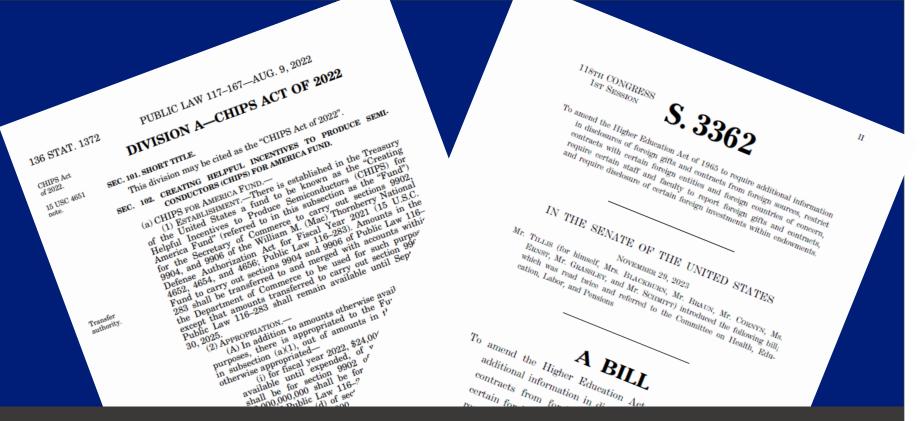
In-House Development

- Plug-and-play
 Well-designed user experience/interface
- ✓ Well-designed dashboards/visualizations
- ✓ API integration
- X Initial and annual costs
- **X** Customization costs/limits
- X Interoperability issues with other campus data systems



- ✓ Fully customizable and expandable
- Develops in-house technical and data expertise
- Integrates with overall campus data management
- ✓ Full control of data, design, etc.
- X Steep learning curve
- X Probably more FTEs





CHIPS and Science Act 2022 | DETERRENT Act (pending, 2024)



#AIEA2024

Leading International Education at a Crossroads

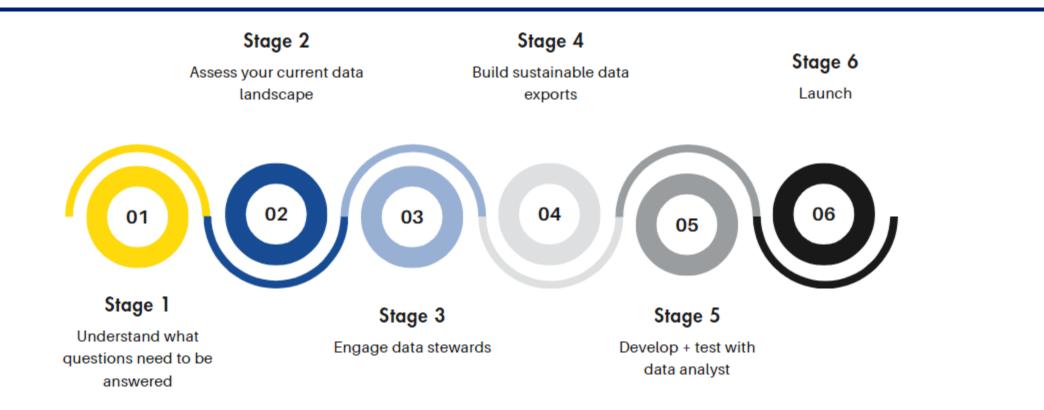
Increasingly, having access to good data is no longer a luxury, but a mandate for reporting and compliance

Building a road map for datadriven decision making at the **University of Rochester**

#AIEA2024

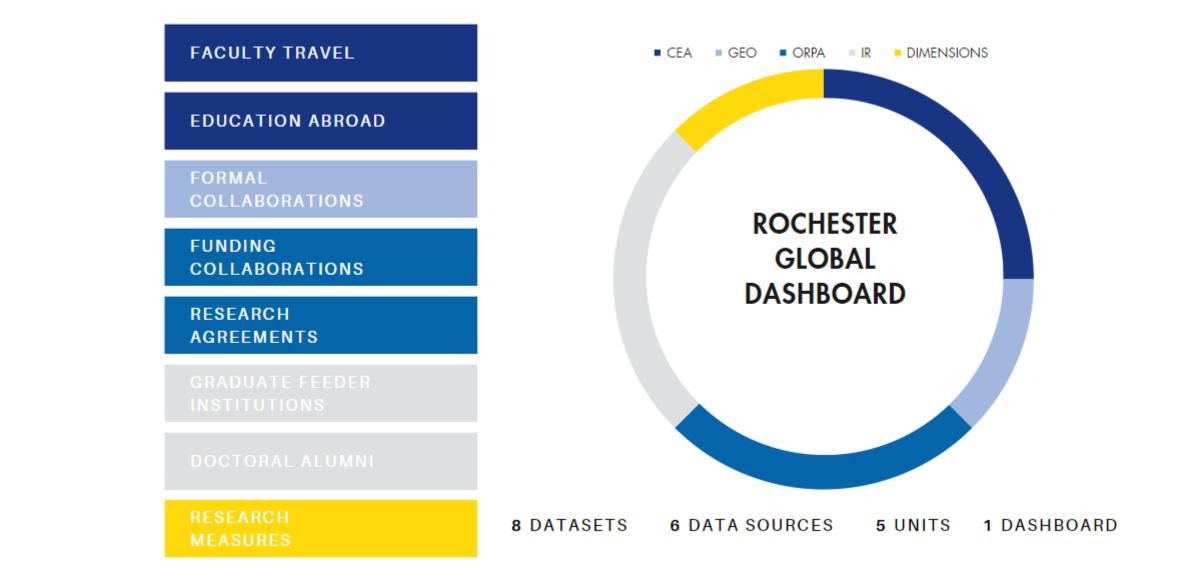
AFEA

Data Collection and Dashboard Planning





#AIEA2024





#AIEA2024

Terminology and Governance



Applications by Funnel Status

		Enrolled	Admit	Accept	Applica	Total
	2013	@ Save	22	81	40	383
	2014	230	21	99	91	441
	2015	253	31	108	88	480
	2016	259	29	112	81	481
	2017	265	44	106	90	505
5	2018	271	24	115	107	517
	2019	231	49	109	94	483
	2020	170	26	265	115	576
	2021	560	87	374	122	1,143
	2022	626	37	322	132	1,117
	2023	672	20	360	86	1,138
	Total	3,777	390	2,051	1,046	7,264

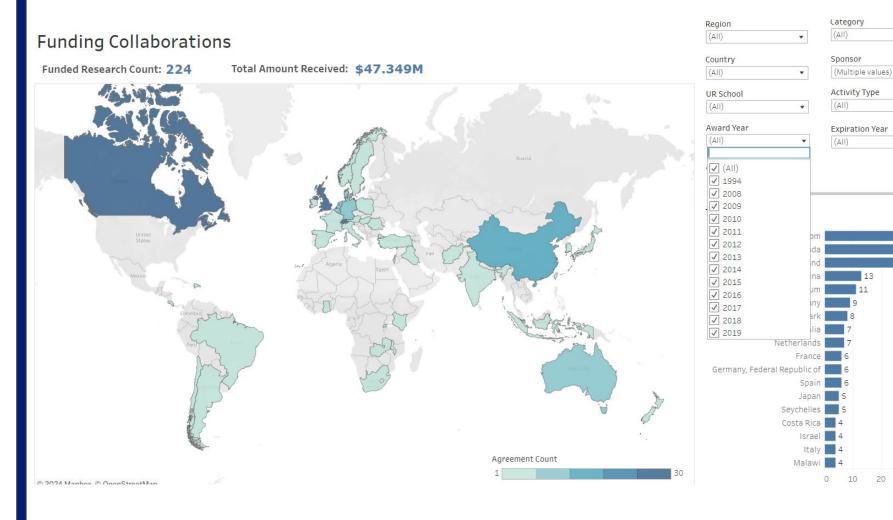
The data in this dashboard is sourced from the graduate application management system, SLATE. The data displays admissions information and should <u>not</u> be used for enrollment reporting. Enrolled applicants in this dashboard accepted an offer of admission but *may or may not have* enrolled in a course. This data should be used when referencing admissions information and trend analysis only.

To view enrollment reporting, please view the International Enrollment at Census Dashboard provided by Institutional Research, that data is sourced from UR Student and has accurate enrollment reporting for students enrolled in courses.



Data Limitations

- Expectations vs. reality
- Limitations vs. opportunities



•

.

.

\$4.242M

30

20



Gathering, generating, aligning, and curating data at the University of Kentucky

#AIEA2024











Education Abroad Enrollment



International Alumni



International Faculty, Staff & Visiting Scholars



Visiting Fulbright Awardees



Global Resources



Globally-Focused Majors, Minors, Certificates & Programs



International Student Enrollment



International Travel



Active Partnerships



UK Core Global Dynamics Courses



International Coauthorship Bibliometrics



UK Faculty & Staff Research & Expertise



National & Global Rankings

Global Engagemen

Other Scholarships



UKY Fulbright Awardees



International Center **Global Footprint**

pact of

cteria in

https://international.uky.edu/global-footprint



#AIEA2024

GLOBAL ENGAGEMENT REPORT

Global Footprint

STANLEY AND KAREN PIGMAN COLLEGE OF ENGINEERING FALL, 2022

This report summarizes metrics that illustrate the global engagement profile of the Stanley and Karen Pigman College of Engineering and includes data on international student enrollment, education abroad participation, international travel, and international partnerships. The College of Engineering enrolled 3,518 students in Fall of the 2022-2023 academic year, or approximately 10.8% of total enrollment at the University of Kentucky.

PREPARED BY

UNIVERSITY OF KENTUCKY INTERNATIONAL CENTER OFFICE OF INTERNATIONAL PARTNERSHIPS AND RESEARCH MARCH 2023

 Internation 	nal Student Enrollment						
1.1	International Student Enrollment University-Wide 2016-2022						
1.2	International Student Enrollment ENGINEERING 2016-2022						
	International Student Enrollment by UK College Enrollment Fall 2022						
	Top Colleges by % International Enrollment Fall 2022						
	Countries of Origin International Students ENGINEERING 2016-2022						
	Top Countries of Origin International Students ENGINEERING 2016-2022						
	International Undergraduate Student Enrollment ENGINEERING Fall 2022						
	International Graduate Enrollment ENGINEERING Fall 2022 International Post-Doctoral Enrollment ENGINEERING Fall 2022						
	Abroad Participation						
	EA Participation University-Wide and ENGINEERING 2018-2022						
	EA Participation by College AY 2021-2022						
	EA Participation Totals by Major/Program ENGINEERING AY 2021-2022						
	EA Participation Rates by Major/Program ENGINEERING AY 2021-2022 EA Destinations ENGINEERING AY 2021-2022						
	EA Destinations ENGINEERING AY 2021-2022 EA Participant Demographics ENGINEERING AY 2021-2022						
	taff, and Student International Mobility						
	Faculty, Staff, and Student International Mobility Travel Destinations ENGINEERING CY 2022						
	Faculty, Staff, and Student International Mobility Travel Purpose ENGINEERING CY 2022						
	onal Faculty, Staff, and Visiting Scholars						
	H-1B and Visiting Scholars by College AY 2021-2022						
4.2	H-1B and Visiting Scholars ENGINEERING CY 2018-2023						
	onal Partnerships						
	International Partnership Agreements by College						
	International Partnership Agreements by Region and Type ENGINEERING						
	Undergraduate Transfer Agreements ENGINEERING						
	Graduate Pathway Agreements ENGINEERING						
	Visiting Student Agreements ENGINEERING Other International Agreements ENGINEERING						
	y and Staff Global Engagement & Expertise Survey Results						
	Research Expertise ENGINEERING.						
	Faculty and Staff Respondents to Survey ENGINEERING						
	Research Areas ENGINEERING Faculty Survey Response Rate						
0.4							
7.1-1-1-1-1							
	nal Awards and Scholarships						
7.1	nal Awards and Scholarships Fulbright Awardees by College 2018-2022						
7.1 7.2	nal Awards and Scholarships Fulbright Awardees by College 2018-2022 Fulbright Awardee Destinations ENGINEERING 2012-2022						
7.1 7.2 7.3	nal Awards and Scholarships Fulbright Awardees by College 2018-2022 Fulbright Awardee Destinations ENGINEERING 2012-2022 Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022						
7.1 7.2 7.3 7.4	nal Awards and Scholarships Fulbright Awardees by College 2018-2022. Fulbright Awardee Destinations ENGINEERING 2012-2022. Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022. Fulbright Awardees ENGINEERING 2018 - Present						
7.1 7.2 7.3 7.4 7.5	nal Awards and Scholarships Fulbright Awardees by College 2018-2022 Fulbright Awardee Destinations ENGINEERING 2012-2022 Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022 Fulbright Awardees ENGINEERING 2018 - Present Other International Student Awards ENGINEERING 2018 - Present						
7.1 7.2 7.3 7.4 7.5 8. Global En	nal Awards and Scholarships Fulbright Awardee by College 2018-2022. Fulbright Awardee Destinations ENGINEERING 2012-2022. Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022. Fulbright Awardees ENGINEERING 2018 - Present. Other International Student Awards ENGINEERING 2018 - Present. gagement Academy Participation ENGINEERING.						
7.1 7.2 7.3 7.4 7.5 8. Global En 9. Global Dy	nal Awards and Scholarships Fulbright Awardee by College 2018-2022 Fulbright Awardee Destinations ENGINEERING 2012-2022 Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022 Fulbright Awardees ENGINEERING 2018 - Present Other International Student Awards ENGINEERING 2018 - Present gagement Academy Participation ENGINEERING namics Courses						
7.1 7.2 7.3 7.4 7.5 8. Global En 9. Global Dy 9.1	Avards and Scholarships Fulbright Awardees by College 2018-2022 Fulbright Awardee Destinations ENGINEERING 2012-2022 Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022 Fulbright Awardees ENGINEERING 2018 - Present Other International Student Awards ENGINEERING 2018 - Present gagement Academy Participation ENGINEERING namics Courses Enrollment in Global Dynamics Courses Offered by Indicated College AY 2021-2022						
7.1 7.2 7.3 7.4 7.5 8. Global En 9. Global Dy 9.1 9.2	Avards and Scholarships Fulbright Awardees by College 2018-2022. Fulbright Awardee Destinations ENGINEERING 2012-2022. Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022. Fulbright Awardees ENGINEERING 2018 - Present						
7.1 7.2 7.3 7.4 7.5 8. Global En 9. Global Dy 9.1 9.2 9.3	Avards and Scholarships Fulbright Awardee by College 2018-2022. Fulbright Awardee Destinations ENGINEERING 2012-2022. Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022. Fulbright Awardees ENGINEERING 2018 - Present. Other International Student Awards ENGINEERING 2018 - Present. gagement Academy Participation ENGINEERING. namics Courses Enrollment in Global Dynamics Courses Offered by Indicated College AY 2021-2022. Global Dynamics Course Enrollment ENGINEERING AY 2021-2022. Courses that Satisfy the Global Dynamics Requirement ENGINEERING.						
7.1 7.2 7.3 7.4 7.5 8. Global En 9. Global Dy 9.1 9.2 9.3 10. Global Ir	Avards and Scholarships Fulbright Awardees by College 2018-2022 Fulbright Awardee Destinations ENGINEERING 2012-2022 Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022 Fulbright Awardees ENGINEERING 2018 - Present Other International Student Awards ENGINEERING 2018 - Present gagement Academy Participation ENGINEERING namics Courses Enrollment in Global Dynamics Courses Offered by Indicated College AY 2021-2022 Global Dynamics Course Enrollment ENGINEERING AY 2021-2022 Courses that Satisfy the Global Dynamics Requirement ENGINEERING npact Awardees ENGINEERING AYS 2020-2022						
7.1 7.2 7.3 7.4 7.5 8. Global En 9. Global Dy 9.1 9.2 9.3 10. Global Ir Appendix A:	Avards and Scholarships Fulbright Awardee by College 2018-2022. Fulbright Awardee Destinations ENGINEERING 2012-2022. Fulbright Visiting Awardee Countries of Origin ENGINEERING 2012-2022. Fulbright Awardees ENGINEERING 2018 - Present. Other International Student Awards ENGINEERING 2018 - Present. gagement Academy Participation ENGINEERING. namics Courses Enrollment in Global Dynamics Courses Offered by Indicated College AY 2021-2022. Global Dynamics Course Enrollment ENGINEERING AY 2021-2022. Courses that Satisfy the Global Dynamics Requirement ENGINEERING.						

Global Engagement Report | College of Engineering Fall 2022 | Page 14 of 32

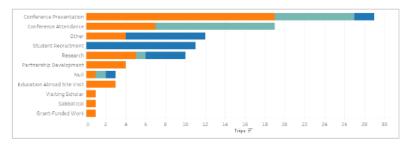
Faculty, Staff, and Student International Mobility⁶

3.

3.1 Faculty, Staff, and Student International Mobility | Travel Destinations | ENGINEERING | CY 2022



3.2 Faculty, Staff, and Student International Mobility | Travel Purpose | ENGINEERING | CY 2022



⁶ Data includes non-credit bearing travel for students (e.g., research, conference, service). It does not include travel through the Office of Education Abroad or Exchanges (see section 2).

GLOBAL ENGAGEMENT REPORT

STANLEY AND KAREN PIGMAN COLLEGE OF ENGINEERING FALL, 2022

This report summarizes metrics that illustrate the global engagement profile of the Stanley and Karen Pigman College of Engineering and includes data on international student enrollment, education abroad participation, international travel, and international partnerships. The College of Engineering enrolled 3,518 students in Fall of the 2022-2023 academic year, or approximately 10.8% of total enrollment at the University of Kentucky.

PREPARED BY

UNIVERSITY OF KENTUCKY INTERNATIONAL CENTER OFFICE OF INTERNATIONAL PARTNERSHIPS AND RESEARCH MARCH 2023

#AIEA2024

AFEA

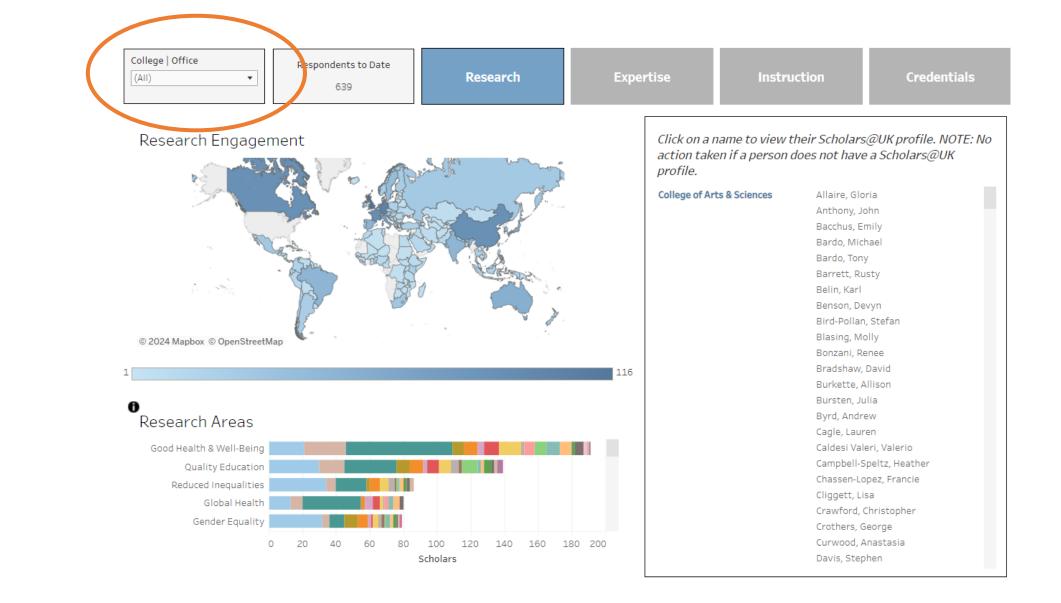
Leading International Education at a Crossroads

Global Footprint

Faculty and Staff Research and Expertise



AFEA



AFEA

Aligning new and emerging data to existing structures

Standards and authoritative sources

#AIEA2024

College of Agriculture, Food, and Environment

College of Agriculture, Food, & Environment

College of Agriculture, Food & Environment

Agriculture, Food and Environment, College of

CAFE

Martin Gatton College of Agriculture, Food and Environment

AFEA

Aligning new and emerging data to existing structures

Standards and authoritative sources

#AIEA2024

Consistency and effectiveness

College of Agriculture, Food, and Environment

College of Agriculture, Food, & Environment

College of Agriculture, Food & Environment

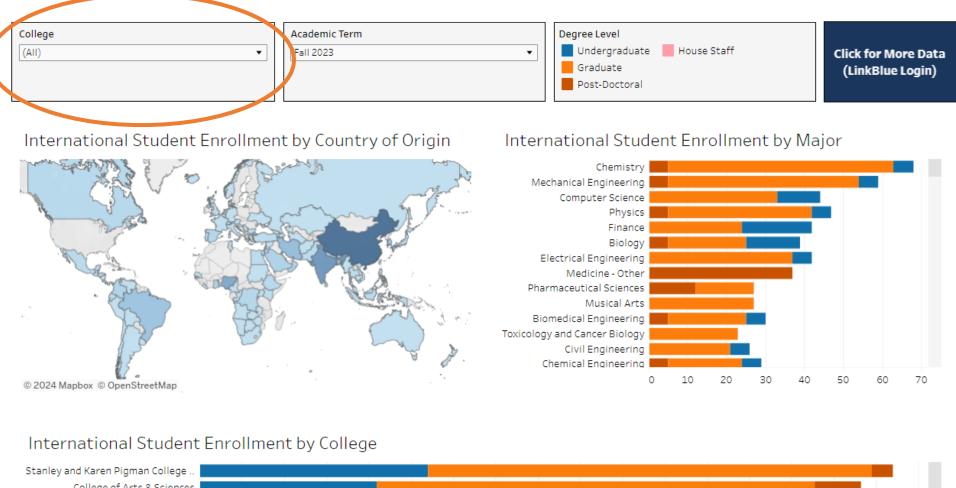
Agriculture, Food and Environment, College of

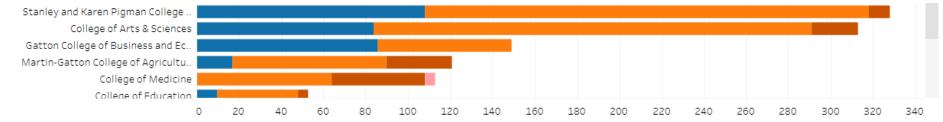
CAFE

Martin Gatton College of Agriculture, Food and Environment



International Student Enrollment





AFEA

Mountains of Data

Wide data Long data



llege	DEGREE_Q	Ethnicity	First Gener	Full Part Ti	Full/Part Ti	Gender	GENDER_C	GENDER_IP	GENDER_0	Is First Gen	Is Graduate	Is Grs Cohort	Is Nonresid	Is Undergra	Is Undergra
Agriculture,		Null	Ν	Full Time	Full Time	Female	Female	Female	Null	N	N	Null	Null	Y	Y
od and												N	Null	Y	Y
vironment		Black or	N	Full Time	Full Time	Male M	Male	Male	Null	N	Null	Y	N	Null	Null
		African									N	Null	N	Y	Y
		American										N	N	Y	Y
		Other	N		Λ		1:				70				_
				Ζ.	4 r	nII	lior	1 rc)WS	5 X	10	CO	lun	nn	S
		Unknown	N	Full Time	Full Time	Male	Male	Male	Null	N	N	Null	N	Y	Y
												N	N	Y	Y
		White or Caucasian	Y	Full Time	Full Time	Female	Null	Null	Null	Y	Y	N	γ	N	N
							Female	Female	Null	Y	Null	N	N	Null	Null
						Male Ma	Male	Male	Null	Y	Null	N	N	Null	Null
												Y	N	Null	Null
											N	Null	N	Y	γ
												N	N	Y	Y
				Part Time	Part Time	Female	Female	Female	Null	Y	N	Null	N	Υ	Y
						Male	Male	Male	Null	Y	N	Null	N	Y	Y
			N	Full Time	Full Time	Female	Female	Female	Null	N	Null	N	N	Null	Null
											N	Null	N	Y	Y
												N	N	Y	Y
						Male	Male	Male	Null	N	Null	N	N	Null	Null
												Y	N	Null	Null
											N	Null	N	Y	Y
												N	N	Y	Y
				Part Time	Part Time	Female	Female	Female	Null	N	N	Null	N	Y	Y
												N	N	Y	Y
						Male	Male	Male	Null	N	Null	N	N	Null	Null
											N	Null	N	Y	Y
												N	N	Υ	Y
	Bachelor's	Null	Y	Full Time	Full Time	Female	Female	Female	Null	Y	Null	Null	Null	Null	Null
	Degree											N	Null	Null	Null
												Y	Null	Null	Null
											N	Null	Null	Y	Y



Mountains of Data

Wide data Long data *Counting and institutional knowledge*





Education Abroad Enrollment



International Alumni



International Faculty, Staff & Visiting Scholars



Visiting Fulbright Awardees



Global Resources



Globally-Focused Majors, Minors, Certificates & Programs



International Student Enrollment



International Travel



Active Partnerships



UK Core Global Dynamics Courses



International Coauthorship Bibliometrics



UK Faculty & Staff Research & Expertise



National & Global Rankings

Global Engagemen

Other Scholarships



UKY Fulbright Awardees



International Center **Global Footprint**

pact of

cteria in

https://international.uky.edu/global-footprint



#AIEA2024

Data Ownership

Requests and miscommunication

#AIEA2024

- Scholars@UK
- The pandemic/virtual and in-person meetings

Management, best practices, and future data collaborations

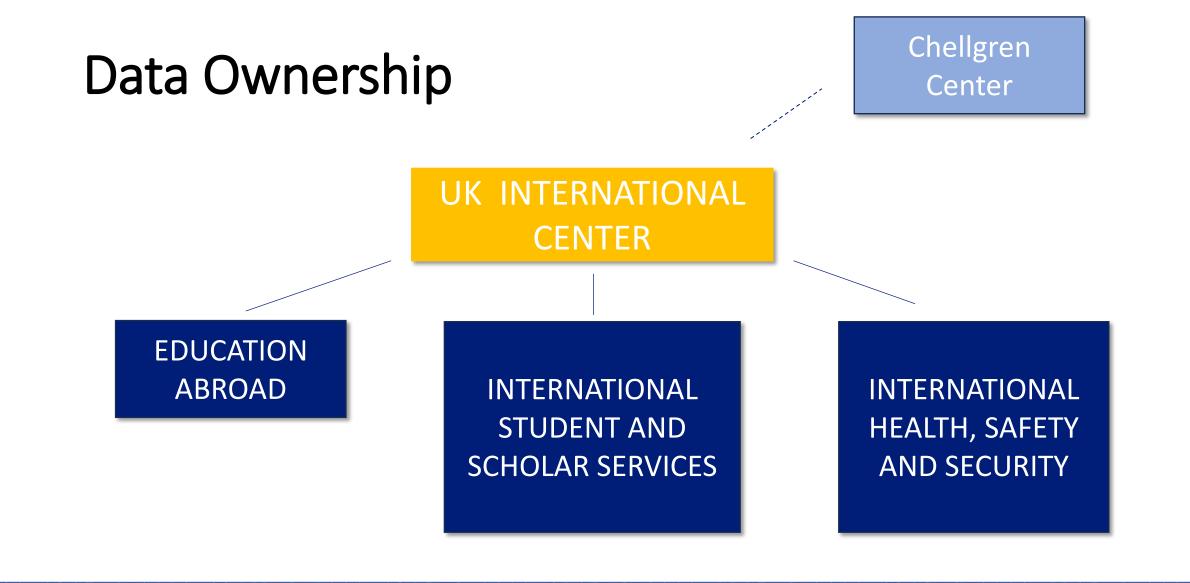


Data Ownership

#AIEA2024









#AIEA2024

Moving the Needle

#AIEA2024

Chellgren Center

Data stewardship, and demonstrating best practices.

INTERNATIONAL STUDENT AND SCHOLAR SERVICES

INTERNATIONAL HEALTH, SAFETY AND SECURITY



Outputs



Outcomes

- School/College-based reporting
- Clear data definitions
- Trend analysis across sectors
- Relationship development
- Operational, requested, and generated data sets

#AIEA2024

- Insight into overlooked opportunities
- Impact of data collection practices
- Global data "champions"
- Data alignment and appreciation
- Intentional campus internationalization

Where do we go from here?

- Where can your data take your institution? (planning, resource allocation, assessment)
- How will shifting regulatory frameworks/compliance shape your data collection/curation/visualization efforts?
- How might increased/enhanced global engagement data use influence rankings and reputation
- What are your biggest obstacles around global engagement data?