Purpose

(a) Provide a quarterly update to campus leadership on research & innovation activity and successes, and a closer look at sponsored program activity.
(b) Consider needs and opportunities to enhance and expand UNCW research activities.

Agenda

1. Team Updates – Research & Innovation Services Team (RIST)
2. Research & Sponsored Programs Update
3. Research Development
4. Centers & Institutes – Catalyzing Research
   -- I3S (Ricanek)
Office of Research & Innovation
Research & Innovation Service Team

Update

Administrative Departments
SPARC  RIO  OIC

Centers, Programs, Institutes
CIE  MARBIONC  I3S
Office of Research & Innovation
Research & Innovation Service Team

Personnel

Proposed: 09/15/2020

Administrative Departments

Sponsored Programs and Research Compliance (SPARC)
- Kati Chipps, Director
  - Dana Bell, Preaward Coordinator
  - Nathan Jones, Proposal Development Specialist
  - Kristi Dorsey, Proposal Development Specialist
  - Vacant, Proposal Development Specialist (time limited)

Research Development
- Proposed
  - Research Development Specialist

Resarch Integrity Office (RIO)
- Lee Prete, Director
  - Michael Carr, Assistant Director for Agreements
  - John Finn, Financial Compliance Officer
  - Ashley Adams, Grant Specialist

Office of Innovation and Commercialization (OIC)
- Vacant, Director
  - Amy Evans, Research Compliance Specialist
  - Terri Hollowell, Research Compliance Specialist
  - Dixie Airey, Research Compliance Specialist (temporary)
  - Proposed
  - Research Compliance Specialist (HIPPA)

award Management
- Vacant, Administrative Assistant
  - Debra Wilkie, Data Specialist (temporary)

Proposal Development
- Dana Bell, Preaward Coordinator

Research Integrity Office (RIO)
- Lee Prete, Director
  - Michael Carr, Assistant Director for Agreements
  - John Finn, Financial Compliance Officer

Resarch Integrity Office (RIO)
- Lee Prete, Director
  - Michael Carr, Assistant Director for Agreements
  - John Finn, Financial Compliance Officer

Office of Innovation and Commercialization (OIC)
- Vacant, Director
  - Amy Evans, Research Compliance Specialist
  - Terri Hollowell, Research Compliance Specialist
  - Dixie Airey, Research Compliance Specialist (temporary)

Institutes, Centers, and Programs

Center for Innovation and Entrepreneurship (CIE)
- Diane Durance, Director
  - Laura Brogdon, University Program Associate
  - Gabrielle Plumez, Administrative Assistant (time limited)

MARBIONC
- Vacant, Director (0 FTE)
  - Laura Brogdon, University Program Associate
  - Gabriele Plumez, Administrative Assistant (time limited)

Institute for Interdisciplinary Identity Sciences (I3S)
- Karl Ricanek, Director

Critical Partners for Operations
- Paula Cameron, Executive Assistant (AA)
- Karen Barnhill, Business Officer (AARM)
- Megan Gorham, Director, Corporate and Foundation Giving (Advancement)
- Richard Huse (CHHS)

Proposed: 09/15/2020

Searches Finalizing, Offers to be made (thanks to search committees)

Posting Soon!
Website Updates | Check them out!

http://uncw.edu/research/

http://uncw.edu/sparc/

Sponsored Programs & Research Compliance

Welcome to the Office of Sponsored Programs and Research Compliance (SPARC). The office supports research through submission, negotiation, and administration of externally sponsored programs and ensures compliance with institutional and sponsor regulations. We offer services to assist faculty in all stages of grant development, from concept to award.

Researchers and research administrators will find resources in SPARC to support and promote their work—from finding funding, submitting proposals, managing grants and contracts, to regulatory compliance information, patenting, licensing and starting new companies. SPARC staff are committed to helping you every step of the way.

Are you a NEW PI to research? Are you a FUNDED RESEARCHER? REGISTER HERE to receive the latest information critical to funded UNCW awards.

Proposal Development

The Proposal Development team works with you to prepare highly competitive proposals for external funding and ensure compliance with university, state and federal regulations. Please contact proposals@uncw.edu as soon as you know the funding opportunity and deadline.

Award Management

The Award Management team helps you manage your funding in accordance with the terms & conditions of the award. We are your knowledge base for regulations that govern sponsored programs. When you receive your award letter, please forward it to award@uncw.edu.

Research Integrity

The mission of Research Integrity staff is to help create a culture of ethics and compliance for UNCW’s research initiatives. For more information, please visit our webpage or email us at info@uncw.edu.
Research Progress Update

FY21 First Quarter

UNCW Scholarship, Research & Innovation

Sponsored Programs

Not all Research is funded

Not all Sponsored Programs are Research
### UNCW Sponsored Programs

#### Award vs. Expenditures

<table>
<thead>
<tr>
<th></th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21-Q1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Awards</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Awarded</td>
<td>$11,414,279</td>
<td>$9,328,856</td>
<td>$12,024,748</td>
<td>$8,754,664</td>
<td>$3,993,691</td>
</tr>
<tr>
<td>Number</td>
<td>161</td>
<td>219</td>
<td>184</td>
<td>190</td>
<td>49</td>
</tr>
<tr>
<td><strong>Proposals</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Requested</td>
<td>$57,344,087</td>
<td>$39,853,612</td>
<td>$65,691,177</td>
<td>$62,686,133</td>
<td>$12,770,720</td>
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<tr>
<td>Number</td>
<td>282</td>
<td>250</td>
<td>292</td>
<td>292</td>
<td>69</td>
</tr>
<tr>
<td>Research Expenditures</td>
<td>$16.02M</td>
<td>$16.83M</td>
<td>$17.5M</td>
<td>#N/A</td>
<td>#N/A</td>
</tr>
</tbody>
</table>

- FY21 Awards—starting VERY strong
- Change in success, or dynamic catchup from FY20 Q3 and Q4?
- Proposals pace is a bit under last year (4 x 69 = 276, pandemic?)
Recall: Only PI Home Dept organization is credited with this report

CMS, CE, SA are not homes for tenure-track faculty, so the programs shown here are by other staff and programs
<table>
<thead>
<tr>
<th>Department</th>
<th>Proposals</th>
<th>Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>$</td>
<td>%</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-----------</td>
<td>--------</td>
</tr>
<tr>
<td>CAS Biology and Marine Biology Admin Grant</td>
<td>14</td>
<td>$2,681,659</td>
</tr>
<tr>
<td>CSB Small Business Technology Development Ctr</td>
<td>2</td>
<td>$436,114</td>
</tr>
<tr>
<td>CAS Physics and Physical Oceanography</td>
<td>7</td>
<td>$2,101,593</td>
</tr>
<tr>
<td>CAS Computer Science</td>
<td>7</td>
<td>$2,593,884</td>
</tr>
<tr>
<td>CMS Administration Main</td>
<td>3</td>
<td>$68,688</td>
</tr>
<tr>
<td>CAS Mathematics and Statistics</td>
<td>1</td>
<td>$90,775</td>
</tr>
<tr>
<td>WCE Watson College of Education</td>
<td>1</td>
<td>$14,999</td>
</tr>
<tr>
<td>CAS Environmental Sciences</td>
<td>3</td>
<td>$789,522</td>
</tr>
<tr>
<td>CAS Earth and Ocean Sciences</td>
<td>3</td>
<td>$314,795</td>
</tr>
<tr>
<td>CAS Psychology</td>
<td>1</td>
<td>$30,527</td>
</tr>
<tr>
<td>CHHS College of Health and Human Services</td>
<td>2</td>
<td>$331,454</td>
</tr>
<tr>
<td>CAS Chemistry and Biochemistry Admin</td>
<td>10</td>
<td>$1,909,333</td>
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<tr>
<td>International Programs Admin</td>
<td>3</td>
<td>$477,756</td>
</tr>
<tr>
<td>WCE Secondary Ed</td>
<td>2</td>
<td>$64,848</td>
</tr>
<tr>
<td>Associate VC for Community Engagement</td>
<td>6</td>
<td>$13,872</td>
</tr>
<tr>
<td>CAS Sociology and Criminology</td>
<td>1</td>
<td>$48,556</td>
</tr>
<tr>
<td>CSB BAISSC</td>
<td>1</td>
<td>$996,865</td>
</tr>
<tr>
<td>CSB Department of Marketing</td>
<td>1</td>
<td>$61,594</td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
<td>$179,998</td>
</tr>
</tbody>
</table>

**Grand Total**

<table>
<thead>
<tr>
<th>#</th>
<th>$</th>
<th>%</th>
<th>#</th>
<th>$</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>$12,770,720</td>
<td></td>
<td>49</td>
<td>$3,993,691</td>
<td></td>
</tr>
</tbody>
</table>

Note Proposal Effort
## UNCW FY21-Q1 Proposals and Awards by Center & Institute (Award Department)

UNCW has 4 UNC System Recognized Centers and Institutes:

<table>
<thead>
<tr>
<th>Center Name</th>
<th>Proposals</th>
<th>% of total $</th>
<th>Awards</th>
<th>% of total $</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Center for Marine Science (CMS)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMS Administration Main</td>
<td>7</td>
<td>1,562,514</td>
<td>7</td>
<td>368,260</td>
</tr>
<tr>
<td>CMS Grants (Non NURC/NCDENR)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMS NCDENR Grants</td>
<td>2</td>
<td>258,139</td>
<td>9</td>
<td>626,399</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7</td>
<td>1,562,514</td>
<td>9</td>
<td>626,399</td>
</tr>
<tr>
<td><strong>Institute for Interdisciplinary Identity Sciences (I3S)</strong></td>
<td>1</td>
<td>46,935</td>
<td>2</td>
<td>162,500</td>
</tr>
<tr>
<td>I3S - Institute for Interdisciplinary Identity Sciences</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1</td>
<td>46,935</td>
<td>2</td>
<td>162,500</td>
</tr>
<tr>
<td><strong>Center for Innovation and Entrepreneurship (CIE)</strong></td>
<td>1</td>
<td>45,000</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Center for Innovation and Entrepreneurship</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1</td>
<td>45,000</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td><strong>Swain Center for Executive Education &amp; Economic Development</strong></td>
<td>0</td>
<td>-</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Swain Center</td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>0</td>
<td>-</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Center &amp; Institute Administration Total</strong></td>
<td>9</td>
<td>1,654,449</td>
<td>12</td>
<td>788,899</td>
</tr>
<tr>
<td><strong>FY21 Sponsored Programs Q1 Grand Total</strong></td>
<td>69</td>
<td>$12,770,720</td>
<td>49</td>
<td>$3,993,691</td>
</tr>
</tbody>
</table>

This does not reflect the full amount of research supported or encouraged by the centers and institutes.
37 Different Sponsors

- DOC National Oceanic and Atmospheric Administration (NOAA)
- National Science Foundation (NSF)
- US Small Business Administration (SBA)
- US Department of the Interior (DOI)
- Florida Department of Environmental Protection
- National Park Service (NPS)
- NOAA National Marine Fisheries Service (NMFS)
- DOD Defense Intelligence Agency
- National Institutes of Health (NIH)
- New Hanover County Schools
- Department of Health and Human Services (DHHS)
- North Carolina Department of Natural and Cultural Resources (NCDCR)
- Bill and Melinda Gates Foundation
- National Aeronautics and Space Administration (NASA)
Elementary School Cyber Defense & AI Education through Interactive Games
Ebrahimi, E. Moody, A., Barreto, D., Ricanek, K., Mittal, S., Pence, T. $1.5 M, NSF

SBIR: Production of anti-viral, anti-bacterial and related novel biotherapeutic compounds of plant origin via fermentation of engineered microalgae
Williamson, R., Bassett, W. $90,425, Purissima/NIH

Focused CoPe: Breaking Barriers: Engaging a Community Approach for Barrier Island Science and Education in a Changing Climate.
Mieras, R., Long, J. $993,999, NCSU/NSF

Focus CoPe: Understanding multiscale impacts of hazard adaptation decision-making on the resilience of coastal communities to climate change
Eulie, D. $419,399, ECU/NSF

CAREER: Augmenting Documentation of Community and Historical Sites with 3D Reconstructions
Morago, B. $474,670, NSF

1 of 2 NSF CAREER proposals
 Development of Advanced Solutions for Triage and Visualization of Large Volumes of Image and Videos
Ricanek, K
$115,000, DOE Oak Ridge Nat. Lab.
1-yr supplement amt to continuing contract

Demography and Recruitment Dynamics of Atlantic Sturgeon Populations in North Carolina Coastal Rivers
Scharf, F.
$588,293, NC WRC

SBA 2020-2021 funds to complete cooperative agreement in southeast regional center
McWhorter, H.
$394,342, NC SBTDC

Spatial and Acoustic Ecology of Marine Megafauna
Pabst, A., McLellan, W.
$273,320, US Dept. of Interior

Gag grouper *Mycteroperca microlepis*: new candidate high-value marine finfish for intensive aquaculture in the US: establishing hatchery technology and evaluating growth of wild-caught juveniles on formulated diets
Watanabe, W., Alam, Md., Carrol, P.
$197,611, Atlantic States Marine Fisheries Commission
FY21 F&A Recovered

First 2 months underperformed compared to 5 yr Avg – Impact of COVID-19

FY21 Projected F&A Recovery = $1.3 M

Tied to R&D awards and then expenditures
## Research Integrity Office: Key Performance Metrics

<table>
<thead>
<tr>
<th>RIO PROGRAM</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21-Q1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional Review Board (IRB) Submissions</td>
<td>444</td>
<td>431</td>
<td>354</td>
<td>370</td>
<td>479</td>
<td>105</td>
</tr>
<tr>
<td>Institutional Animal Care and Use Committee (IACUC) Submissions</td>
<td>71</td>
<td>74</td>
<td>87</td>
<td>83</td>
<td>71</td>
<td>18</td>
</tr>
<tr>
<td>Responsible Conduct of Research (# Trained)</td>
<td>20</td>
<td>28</td>
<td>38</td>
<td>21</td>
<td>21</td>
<td>0*</td>
</tr>
<tr>
<td>Annual Conflict of Interest Disclosures (# Submitted and % Compliance)</td>
<td>931</td>
<td>1177</td>
<td>1369</td>
<td>1429</td>
<td>95%</td>
<td>1487</td>
</tr>
<tr>
<td>Export Control (# International Travelers Contacted)</td>
<td>not tracked</td>
<td>326</td>
<td>265</td>
<td>365</td>
<td>111</td>
<td>0**</td>
</tr>
<tr>
<td># Proposals Reviewed for Compliance Issues</td>
<td>not tracked</td>
<td>87</td>
<td>105</td>
<td>126</td>
<td>289</td>
<td>70</td>
</tr>
</tbody>
</table>

* Programs begin in October
** On hold due to COVID-19

**IRB – Several challenging protocols (blood draw, minor parental waiver, GDPR)**

Volume remains similar, research and protocols are growing more complex

**COI – As research grows there are more COIs that need management plans**
Innovation, Commercialization, Entrepreneurship; FY21Q1

Disclosures
- 0 Licenses
- 1 Income License

Start-ups
- 0 Patents Filed | Issued
- 0

MARBIONC
- Lessees: 7
- MDG, LLC Sales: $43,000

CIE
- Mentees: 144

Minority Enterprise Development Week
- 300+ Registrants!

Will be filing for a provisional patent
Selected Recent Publications

Funding fuels knowledge discovery, reported in publications

How southeastern North Carolina is building more resilient food systems after COVID-19

Julia F. Waity
University of North Carolina Wilmington

Samantha Moser
University of South Carolina

Cara Stretch
Feast Down East
Catalyzing Research

1. Research Development
2. Strategic Research Investment
3. Research Centers and Institutes
4. Core Facilities
Digital Soundings: Expanding Digital Networks and Scholarship at UNCW

Kemille Moore (Art and Art History), Ashley Knox (Randall Library), Jennifer Lozano (English), and John Knox (Randall Library)

Next Event: “The Boundaries of Digital Humanities”
Dr. P. Fyfe (NCSU), Nov.

Interdisciplinary Research Seminar Series on Mindfulness

Jacquelin Lee (School of Social Work), Beverly McGuire (Department of Philosophy and Religion), Julian Keith (Department of Psychology), Kristen DeVall (Department of Sociology and Criminology), Anne Pemberton (Randall Library), Meen Lee (School of Nursing)

Next Event: “Recent Advances in Contemplative Neuroscience”
Dr. P. Foo (UNCA), Oct. 28, 5:30 pm

The IRSS program is designed to build **interdisciplinary capacity** in areas of **growing research strength** by (1) fostering communication and promoting collaborations among UNCW investigators and (2) connecting our local community with the national knowledge network and creating an intellectual community of peers. IRSS focuses on a theme, problem, or broad question where UNCW has existing research capacity and a clear opportunity to grow its research contributions and overall success.

https://uncw.edu/research/irss/irss_seminar_series.html
Cahill & Momentum Funds

Optional supplement ($500) to support research mentor
Awardee must submit a proposal in 12 mos.

Encouraging interdisciplinary collaborative projects.

Proposals Due Oct 16
UNC Research Opportunity Initiative

“to provide the needed boost to propel research in a priority area to national or international prominence.”

Priority Areas for Funding

• Advanced Manufacturing
• Marine and Coastal Science
• Defense, Military and Security
• Pharmacoengineering
• Energy
• Data Science

Pre-Proposals, Nov. 16

• 1 proposal selected from pre-proposals to develop a full proposal
• The selected team will be awarded $5,000 to support proposal development.

Max $1.25 M, 3 yrs

Final Proposals, March 1
Centers and Institutes
Centers & Institutes

• Centers & Institutes are a **key mechanism to support and catalyze research.**
  • University C&I can have many different purposes

• UNCW has four Institutional Centers & Institutes
  • Center for Marine Science
  • **Institute for Interdisciplinary Identity Studies (I3S)**
  • Center for Innovation and Entrepreneurship
  • Swain Center for Executive Education and Economic Development

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**I3S Update Presentation**
Director Ricanek
I3S Institute

Our mission
Grow research and innovation and commercialization across the university.

Plan of Action
• Mentor faculty
• Support faculty research deficits
• Build interdisciplinary research teams
• Find unique opportunities
• Encourage commercialization
Review of key points in the I3S timeline: A history of seminal events.

2003: NSA award, first intelligence community award at UNCW
2005: Development of world's first craniofacial morphological db
2006: CIA funding via Dyncorp/CSC
2007: CASIS, first ODNI S&T CAE
2009: IARPA, first UNC system school to be awarded IARPA grant
2010: First of series of FBI awards; develop 3 commercial applications. Developed the field of research in facial analytics.
2012: First of series of ORNL contracts; developed tools to for child pornography; deployed to law enforcement. Artemis Project.
2013: TIGR formed, funded by DIA contract via Booz Allen
2014: Patents (2) in facial analytics
FORSCOM CLP, DPD Army Contracting Command Proposal: $29MM
2015: First State Dept award for UNCW. Largest State Dept award across UNC System.
2017: Congressional funding request $10MM Rehabilatel
2019: AI+Health Seminar Series.
Congressional funding request $15MM AI+Human Performance
1

National Security Agency
USG primary authority for biometrics (2003)

**Challenge**

We were unknowns

The successful development of key research on the nature of human facial aging was the lynch pin for all future efforts with USG.
• FR systems had to handle matching faces with more than 1-Million enrolled
• Solution must be FR agonistic
• Solution must not increase search time
• Solution must not degrade performance of FR matcher
Developed ethno-gender modeling to solve complex issues around race and sex differences. Ethno-gender modeling is still used today.

Contribution
This effort established the I3S credibility within the USG. The products delivered were highlighted 2019 for its innovation and impact in the identity sciences space.
Credibility from early USG projects provided the opportunity to expand beyond technology; into the language, regional engagement, and culture (LREC).

UNCW developed workshops for high level USG and allies at the unclassified and classified level.

Topics:
- Balkans
- Chechnya
- Decolonization
- Egypt
- EU Security NATO
- Islamists
- North Caucasus
- EU Developed Crisis

Depts Engaged: Political Science, History, English, Foreign Languages.
Dr. Cara Cilano (ENG) participated in the TIGR LERC series. She wanted to find funding for her research interests with Pakistan.

This was the largest single award from the State Dept across the UNC System. Another first for I3S and UNCW.

PI Depts:
- English
- Psychology
- Political Science
- Computer Science
- Foreign Languages
- Education
- International Studies

This grant was responsible for three (3) new inductees into the James F. Merritt Million Dollar Club

U.S. State Dept
IIUI and UNCW: a Collaborative Model for Enhanced Teaching, Research, and Community Engagement

EXPANSION
US Universities
University of Florida, University of Houston, Clemson, Notre Dame, North Carolina A&T, Carnegie Mellon University, Fayetteville State University, UNC Chapel Hill, Winston-Salem State Univ, and North Carolina Central University

International Universities
Concordia University, International Islamic University of Islamabad, University of Education, Lahore, GITAM, IIT Delhi, Addis Abba University, Pontfical Catholic University of Chile, Southeastern University, etc.

UNCW Collaborators
CAS (9): Computer Science, History, Political & International Affairs, World Languages & Cultures, International Studies, Mathematics, Anthropology, English, Psychology
WCE (3): Masters of Instructional Technology, Education Leadership, IT Foundations & Secondary Education
CHHS (2): College, Exercise Science
CSB (1): Information Systems & Operations Management
OTHER (4): Office of International Programs, Center for Teaching Excellence, Office of Institutional Diversity and Inclusion, Undergraduate Studies
Sponsors

NSA, CIA, FBI, NIJ, ARL, IARPA, BIMA, ODNI, Army, ORNL, DIA, MIT Lincoln Labs
DynCorp, CSC, Unisys, Australian Defense Dept, National Media Exploitation Center
Booz Allen and Hamilton, DIA, State Dept, US AID
IMPACT

Proposals >$15MM: 2 ($29MM)
Request Congressional Funding: 2
Led F&A Generation: 2 years
Led License Income: 5 years
Patents Licensed: 2 fully licensed
AI+Health Seminar Series: 80+

Developing AI/ML Track
Developing Intelligent Sys Eng

Intellectual Property
- Licensed patents
- Successful spin out: Lapetus Solutions
- License Revenues: MORPH dataset

Students & Applied Learning
- Engaged students: 141
- Funded students: 114

Research Funding
- Total awards (UNCW): $5,475,766
- Total award amounts: $18,152,948

NOTE: Data from 2019
AY 20-21 Efforts

USAID Helix Program: Ceiling $60MM (J. Boersma)
I3S, Education, Applied Learning, Univ of Education, Lahore
FBI Academic Research
I3S, Computer Science, Oak Ridge National Labs
DoD STEM
NSF IUCRC AI+Fintech
DoEd STEM
DoEd CoE Veteran Student Success
I3S, Applied Learning, Student Health, UC/University Studies, Registrar, Financial Aid

CIA Labs
I3S, College Deans, UNC System

MAGIC (Council)

AI/ML Research Strategy

MORPH Dataset Enhancements
THANK YOU