



RUTGERS

UNIVERSITY | NEW BRUNSWICK



OFFICE OF THE VICE PROVOST FOR RESEARCH

OVPR Annual Report 2022–2023

#OVPRDreamTeam

<https://newbrunswick.rutgers.edu/>

A Message from the Office of the Vice Provost for Research

The Office of the Vice Provost for Research (OVPR) at Rutgers University–New Brunswick focuses on building interdisciplinary, inclusive intellectual communities. As an outgrowth of the Office of the Chancellor Academic Master Plan (AMP), the OVPR has numerous signature strategic initiatives that drive forward the university’s research enterprise (see Figure 1). Our mission is to serve as a strategic partner at Rutgers–New Brunswick, fostering, interdisciplinary collaborations, advocating for resources, supporting its cross-campus and Chancellor-led units’ research infrastructure development, providing advice, and planning for university-wide research initiatives and priorities (including its centers and institutes), and fostering communication to promote a culture of faculty, student, and staff research that is innovative and inclusive.

Meet the Leadership and Research Development Team



Denise Hien, PhD, ABPP
Vice Provost for Research



Jean Baum, PhD
Vice Provost for Life Sciences
Research & Partnership



Sheila Borges Rajguru, PhD
Director, Research
Development & Strategy



Melissa Schmidt, MS / MI
Program Development
Specialist



Christopher Rios-
Sueverkruebbe, PhD
Senior Program Coordinator



Andrea Hetling, PhD
Provost Leadership Research
Fellow



Harini Sampath, PhD
Provost Leadership Research
Fellow



Valerie Tutwiler, PhD
Provost Leadership Research
Fellow



Aastha Gobind
Undergraduate SoE Student

Denise Hien, PhD, ABPP
Vice Provost for Research
NB Office of the Chancellor

Jean Baum, PhD
Vice Provost for Life Sciences Research and
Partnerships
NB Office of the Chancellor

2022–2023 Achievements

FY 23 saw several OVPR achievements that contributed to the successful accomplishment of its mission for the Rutgers–New Brunswick campus community. The ongoing implementation of three Provost Strategic Taskforces—on Climate Change, Cyberinfrastructure and Data Science, and Publicly and Community-Engaged Scholarship—represents a yearslong effort by interdisciplinary stakeholders across the Rutgers system to enhance the research environment of the university; similarly, the development and planning of an inaugural Undergraduate Research Discovery Day embodies the active intellectual community building that drives the OVPR’s goals for student success. These achievements stand alongside the office’s formalization of policies to support the Chancellor-Reporting Centers and Institutes Guidelines, Best Practices for Hiring/Mentoring, a Cost Share Policy for campus units, Chancellor Challenge (previously called Chancellor-Provost Challenge), Chancellor Challenge Cluster Hire, and School-to-School joint appointments MOU. Looking ahead, the goals for FY 24 continue the OVPR’s development of the campus’s research community and infrastructure through several initiatives. These include implementing the Provost Strategic Task Forces on the Life Sciences Alliance and Behavioral Health and Health Equity, hosting Pilot Seed Funding research groups, organizing Research Dean Roundtables, leading the NIH Academy, and the launch of Chancellor-reporting institutes. These and the OVPR’s other programming will continue to raise Rutgers’s research footprint by highlighting the interdisciplinary, collaborative nature of our campus community’s research enterprise.

This report highlights the FY’23 achievements (Appendix A) and the goals for FY’24 (Appendix B).



Figure 1: OVPR Strategic Initiatives, Goals, and Outcomes

OVPR FY 23 Snapshots

As part of the Academic Master Plan (AMP), the OVPR launched strategic initiatives with the goal of fostering innovative, interdisciplinary research. As Figure 2 illustrates the impact for all the RU-NB schools by engaging in events, roundtables, research ideation forums, leadership and mentorship professional development for faculty and staff, reviewing and awarding pilot seed funding, leading the inaugural launch for the Chancellor Challenge and Chancellor Cluster Hire communications, review, selection, and projects development stages, student success, provost strategic task forces, and more.



Figure 2: OVPR FY 23 Snapshots (see Appendix C for category definitions)

Strategic Initiatives

As part of the Academic Master Plan (AMP), the OVPR launched the following strategic initiatives with the goal to of fostering innovative, interdisciplinary research (see Appendix A, Timeline):

The AMP serves as the roadmap for Rutgers–New Brunswick’s future, clarifying strategies to accomplish the university’s academic mission in its pursuit to be a national leader among institutions of higher education that exemplify excellence in inclusive research, pedagogy, and service toward the common good.

AMP Pillar 2, Priority 1

I. Established Provost Strategic Task Forces (PST) (Appendix D)

One strategic initiative of the OVPR is the creation of Provost Strategic Task Forces that develop guidance that promotes both the building of intellectual communities across Rutgers–New Brunswick and other Chancellor-led units and the university’s broader research enterprise. These task forces, established around themes initiated by the Office of the Chancellor, work to develop strategic recommendations for the Chancellor’s Office in the form of a formal report of their activities, which include meeting with task force members, major stakeholders, community and industry partners, and relevant university entities.

The outcomes include supporting cross-disciplinary, transformative research initiatives, developing new academic programs and interdisciplinary majors and building partnerships internally and externally. This academic year we have worked on four PSTs: Climate Change and Energy Sustainability; Cyberinfrastructure, Data Science, and Artificial Intelligence; Publicly/Community Engaged Scholarship; Life Sciences Alliance; and Behavioral Health and Health Equity. Each are in different stages from development to implementation, as Figure 3 indicates:

Provost Strategic Task Force Stages

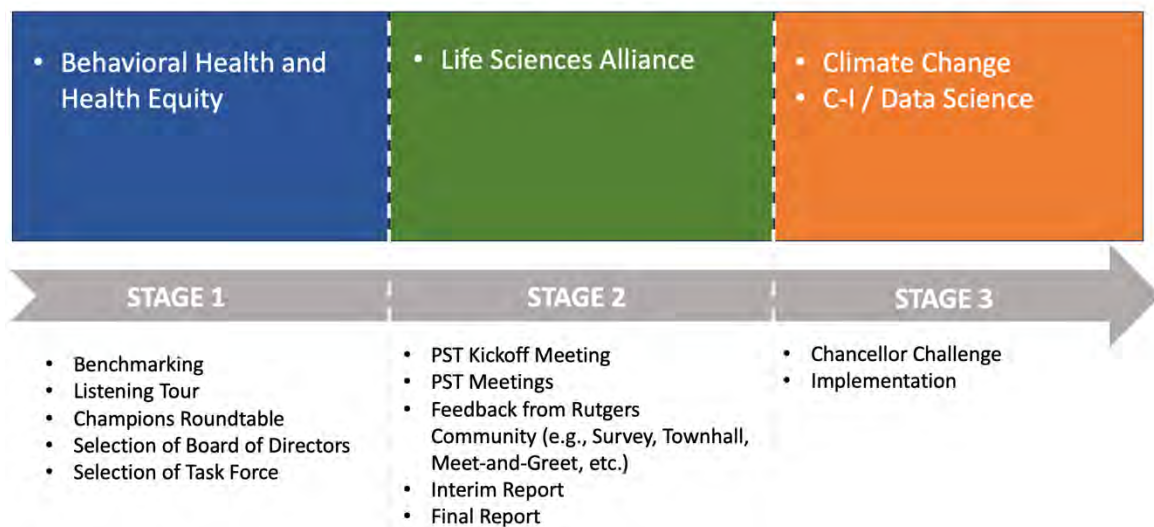


Figure 3: Provost Strategic Task Forces Stages (as of June 30, 2023)

- a. Climate Change: Consisted of one co-chair and seven members. Now in Stage 3, Implementation.
 - b. Cyberinfrastructure & Data Science (CI-DS): Consisted of two co-chairs, nine members, and eight major stakeholders. Members had twenty-five scheduled meetings between October and June. The task force invited internal and external speakers, benchmarked the Rutgers landscape and other institutions, and worked collaboratively to write a final report submitted on June 15, 2023. Currently this task force is conducting a period of internal public comment (Fall 2023) to finish Stage 2. They have submitted proposals for the Chancellor Challenge, Presidential Diversity Cluster Hires, and Chancellor Cluster Hires toward completion of Stage 3.
 - c. Publicly/Community Engaged Scholarship (P/CES): Consisted of two co-chairs and fourteen members. Members met six times between January to June. A report with recommendations was completed on May 25, 2023, to include inclusive recommendations for tenure and promotion. The report will be shared with the OEVPAA.
 - d. Life Sciences Alliance (LSA): Life Sciences Alliance (LSA): This task force’s mission is to bridge Rutgers–NB’s existing strengths in Life Sciences and to promote growth in emerging areas with the goal of advancing discovery, innovation, partnerships, and interdisciplinary research and access to research at Rutgers and beyond. The LSA PST is structured to ensure inclusive input from RU-NB schools, Chancellor-reporting institutes, advisory groups, and a comprehensive faculty task force. In particular, there is an Executive Steering Committee (ESC) comprised of six faculty/institute directors (NB Chancellor reporting) that will lead the task force. A Research Deans Advisory Group was invited to advise the ESC and the Vice Provost for Life Sciences Research & Partnerships. Task force faculty include members from GSAPP, SEBS, RBS, SOE, SSW, Mason Gross, SAS, and Library. Partners from RBHS, industry, and federal relations will be invited. In addition, to ensure student success, meet-and-greets will be curated across RU-NB schools and a research ideation forum will take place focusing on graduate-student and postdoc research on the life sciences. During FY 23 LSA worked on Stage 1. It will enter Stage 2 in the Fall 2023 semester. See Appendix D for full details.
- II. Research Ideation Forums (Appendix E)**
- a. Machine Learning/Artificial Intelligence (ML/AI) took place on November 21, 2022. There were nine faculty teams, four minitalks, and Lewis-Burke Associates, LLC, presentations. Attendees were from across RU–NB, Office for Research, and other Chancellor-led units.
 - b. Future of Learning & Work took place on June 13, 2023. There were nine faculty teams, four minitalks, and Lewis-Burke Associates, LLC, presentations. Attendees represented RU–NB, other Chancellor-led units, Office for Research, and community members.
- III. Pilot Seed Funding (Appendix F)**
- a. Individuals who presented at the research ideation forums applied to receive seed funding for their projects. During FY 23 we led the reviews of seventeen pilot seed funding applications. We awarded four Gun Violence and five ML/AI projects. The total funding award amount was \$411,333 dispersed to projects across RU–NB schools (Bloustein, GSAPP, SAS, SCI, SEBS, SOE, SSW,) with MPIs, Co-PI/Co-Is across other Chancellor-led units (Newark, Camden, RBHS, RWJMS).
- IV. Speed Networking (Appendix G)**
- a. RU–NB/RBHS: Thirty-one attendees strategizing on tangible ways to partner/collaborate using software tools for interacting among leadership.
 - b. Fair & Responsible Data Science: Fifty attendees from ten different NB schools/departments discussing ML/AI, ethics, challenges, and solutions.
- V. Research Deans Roundtables (Appendix H)**
- VI. Center and Institutes Reviews:** Continuing to refine the center review process. Schools sent their centers’ self-study, budget, and leadership reviews.

AMP, Pillar 2, Priority 2

VII. Leadership Development

- a. Research Deans Retreat: Research Deans were invited to spend the day working on leadership development. All Schools were represented. Topics included:

- Research Enterprise—Create Case Studies
- Responsibility Center Management (RCM) Budget Model
- Higher Education Leadership Principles
- Research Integrity
- Interdisciplinary Research
- Research Leadership Challenge Activity

Invited speakers included senior leadership, faculty, and staff from the Office of the Chancellor, Office for Research, Center for Organizational Leadership, and the Office of the Vice Provost for Research.

- b. Research Development Retreat: Research Development Professionals, nominated by the Rutgers–New Brunswick research deans, spent the day working on leadership development. Topics included:

- Self-Care Practices and Strategies
- Communication Fundamentals—Productive Conversations to Get Things Done
- NIH Data Management and Sharing Policy
- How to Organize an NIH Application
- How to Create a Successful Work Bio
- RCM Budget Model

- c. Mentorship of Provost Leadership Research Faculty Fellows (**Appendix I**): Three fellows joined the OVPR. They worked on the following strategic initiatives:

- Andrea Hetling, PhD, Professor, Bloustein School of Planning and Public Policy, participated on the Publicly/Community-Engaged Scholarship Task Force as a member and contributed to the creation of the report.
- Harini Sampath, PhD, Associate Professor, Department of Nutritional Sciences and New Jersey Institute for Food, Nutrition, and Health (IFNH), participated in the Undergraduate Research Discovery Day to expand access and inclusivity to undergraduate research at Rutgers.
- Valerie Tutwiler, PhD, Assistant Professor, School of Engineering, participated in leading the SOE-Speed Networking event and in the Life Sciences Alliance Provost Strategic Task Force. This is the second year of her appointment within the OVPR.

VIII. NIH Academy (**Appendix J**)

- a. Founded and led by the Director for Research Development & Strategy, the NIH Academy has completed three stages during FY 23.
- b. **Stage 1:** Submit proposal and syllabus to Chancellor Francine Conway. Once approved, ask for faculty and research development nominations from RU–NB research deans.
- c. **Stage 2:** Build a community among the faculty members and research development professionals (RDPs).
- i. Selected Inaugural faculty members
 - ii. Selected inaugural research development professionals
 - iii. Hosted NIH Meet-and-Greet
 - iv. Launched Research Development Professionals Retreat (see above section VII.b)
- d. **Stage 3:** Work with RU–NB RDP staff during July and August 2023 to finalize educational materials, create survey questions, and finalize the syllabus and Canvas materials.

AMP Pillar 2, Priority 3

IX. Undergraduate Research Discovery Day

- a. In collaboration with the Vice Provost for Undergraduate Education and the Aresty Research Center Director, the OVPR actively worked with members of the Undergraduate Research Council to plan the inaugural Rutgers “Undergraduate Research Discovery Day” (URDD). The kickoff launch is slated for September 15, 2023, with follow-up events planned throughout the “Fall 2023 Success Week.” These will include faculty-panel sessions and a resource fair for students. The following week (September 18–22), “Research Discovery Sessions” that expose students to research in its many forms across multiple disciplines will be held at different campus locations.

Other Intersecting Strategic Initiatives

- X. **Chancellor Challenge:** The Chancellor Challenge invited members of Rutgers–New Brunswick’s rich and diverse scholarly community to propose transformational, campus-wide initiatives that help fulfill the goals of the Academic Master Plan and foster innovative research that benefits the public good. Through a competitive review process that evaluated twenty-five entries, four proposals were identified as being best positioned to catalyze exploration, collaboration, concept-testing, and risk-taking; to represent the efforts of cross-disciplinary teams from multiple Rutgers–New Brunswick units; and to focus the power of our research on grand challenges of science and society. We worked with project leads to further develop their projects, timelines, budget, and other support as needed. These were done in phases from April to June 2023. Awards were made on July 1, 2023 (Appendix K).

2023–2024 Goals

The Office of the Vice Provost for Research (OVPR) has three main goals that focus on the following strategic initiatives in FY 24 (see Appendix B). The goals align with the Chancellor’s Academic Master Plan’s (AMP) Pillars.

Goal 1: Support and increase impacts of innovative inclusive research by fostering interdisciplinary and cross campus collaboration.

AMP Pillar II, Priority 1: Increase impact of all Rutgers’s research, including interdisciplinary research and community-engaged research.

Strategic Initiatives: In Fall 2023/Spring 2024, we will continue our efforts to enhance an interdisciplinary research ecosystem through launching:

- I. **Provost Strategic Task Force on the Life Sciences Alliance**
- II. **Provost Strategic Task Force on Behavioral Health and Health Equity**
- III. **Research Ideation Forum Alumni Event**
 - a. In Spring 2024, we will organize an event where faculty alumni participants and pilot seed funding awardees will share updates.
- IV. **Pilot Seed Funding**
 - a. Future of Learning & Work
 - b. Supplemental Awards for previous pilot seed funding awardees.
- V. **Speed Networking**
 - a. RU–NB/RBHS

- VI. **Research Deans Roundtables:** Monthly meetings with the research deans will focus on driving forward the RU–NB research enterprise. They will focus on the Life Sciences Alliance Provost Strategic Task Force as the Research Deans Advisory Committee.
- VII. **OVPR Newsletter**

Goal 2: Increase diversity in research faculty and staff to reflect our community, the State, and students; provide research professional advancement programming; and build capacity for publicly engaged research.

AMP Pillar II, Priority 2: Increase equitable representation of all communities in the research process, including diversity of faculty and access to infrastructure and resources.

Strategic Initiatives:

- I. **Leadership Development**
 - a. Mentorship of Provost Leadership Research Faculty Fellows
- II. **Center Director Conference**
- III. **NIH Academy**
 - a. **Stage 4:** Launch in Fall 2023, when faculty members will meet in person on Fridays to work on their NIH R01 applications.

Goal 3: Center research opportunities for students at all levels of training from undergrad to graduate and postdoctoral.

AMP Pillar II, Priority 3: Tightening the connection between research and education by strengthening the opportunities for student research at all levels.

The OVPR will showcase undergraduate and graduate student research opportunities on the Rutgers–New Brunswick website along with leading research trainings for students and postdocs.

Strategic Initiatives:

- I. **Undergraduate Student Research Discovery Day**
- II. **Graduate Student and Postdoctoral Research Ideation Forum on Life Sciences**

Other Major Intersecting Strategic Initiatives

- I. **Digital Badges:** OVPR will work on an application for the following faculty and staff digital badges.
 - a. Provost Leadership Research Faculty Fellows
 - b. Research Development Professionals, NIH R01 Academy

Outcomes

- I. **School-to-School and School-to-Center/Institute Joint Hires MOU**
- II. **Finalize RU–NB/RBHS Joint Hires MOU**
- III. **Chancellor-Reporting Center/Institute Guidelines**
- IV. **Begin Implementation of New Institute Model**
- V. **Coordinate equitable infrastructure and core facilities development**

Website, Social Media, & University Service

- I. Website & LinkedIn Profile
- II. University Service Table

Leadership

1. Chancellor Cabinet Members
2. President’s Administrative Council Members
3. EVPAA/SVPR Research Strategy Roundtable Advisory Board
4. Climate Action Task Force Co-Chair for New Brunswick
5. RWJ executive advisory board for REACH project (Denise Rodgers, Anna Branch, Henry Turner)
6. Association of Public and Land-Grant Universities (APLU), Innovation and Economic (IEP) Committee
7. Waksman Institute of Microbiology, New Brunswick representative
8. Leadership Advisory Panel, Executive Committee for Brain Health Institute, RBHS, New Brunswick representative

Research Integrity

9. Misconduct issues, New Brunswick representative
10. Big 10 Academic Alliance Research: Peer Group for the Responsible Conduct of Research (RCR) Integrity Subgroup, New Brunswick representative
11. Office for Research, Responsible and Ethical Conduct of Research (RECR) Task Force, New Brunswick representative

Research Administration/Development

12. Office for Research, indirect rates waivers applications, New Brunswick representative
13. Office for Research, eIRB+ Steering Committee (SC) & Implementation Team (IT), New Brunswick representative
14. Office for Research, Research Development Professional, Advisory Board

Student Success

15. School of Social Work—Latina/o/x Initiatives for Service, Training, and Assessment (LISTA) Certificate Advisory Board
16. Rutgers Career Exploration and Success, Rutgers Summer Service Internship (RSSI) Program, Selection Committee Member
17. Rutgers Center for Organizational Leadership, Pre-Doctoral Leadership Development Academy, Panel, New Brunswick representative

Business Development

18. Combined OIT/Office for Research Budget Advisory Group
19. Office for Research Budget Advisory Group

Environment & Health

20. Newark–New Brunswick Environmental Advisory Board
21. SEBS NJ Institute for Food, Nutrition, and Health Executive Advisory Board

Appendix A: FY 23 Strategic Initiatives Timeline

	AMP Priority 1* Activities	AMP Priority 2* Activities	AMP Priority 3* Activities
Summer 2022 July–August	<ul style="list-style-type: none"> • NEW CI-DS PST Listening Tour • Convened CI-DS PST Champions meeting • Selected of CI-DS co-chairs • Selected of CI-DS PST members • Administered Center/Institute reviews • Followed-up and met with faculty members to facilitate Gun Violence research teams—based on the Research Ideation Forum on Gun Violence post-event survey • Launched the Gun Violence Seed Funding RFP • Brainstormed topics and curated a list of presenters for the Research Deans Leadership Retreat 	<ul style="list-style-type: none"> • Submitted NIH R01 Academy proposal to the Chancellor Challenge 	
Fall 2022 September–December	<ul style="list-style-type: none"> • Hired NEW Program Development Specialist • Convened CI-DS PST meetings (11) • Convened CI DS Co-chair meetings (5) • Convened Research Deans roundtables (11 meetings) • Released the Chancellor Challenge call • Launched the Research Deans Leadership Retreat • Reviewed Gun Violence Pilot Seed Funding proposals • Selected Gun Violence Pilot Seed Funding awardees • Launched 2nd Research Ideation Forum on ML/AI • Created ML/AI Pilot Seed Funding RFP • Administered Center/Institute reviews • Organized Speed Networking between RU–NB and RBHS • Hired NEW Program Development Specialist • NEW Vice Provost for Life Sciences Research & Partnerships (VPLSRP) joined leadership • VPLSRP initiated Stage 1 of LSA PST: Listening Tour 	<ul style="list-style-type: none"> • Sent out the call for the Provost Research Leadership Fellows nominations • Completed final selections for the Provost Leadership Research Fellows • Mentored Provost Leadership Research Faculty Fellows (7 meetings) • Reviewed NIH R01 Academy Faculty and Research Development Professionals nominations • Selected inaugural NIH R01 Academy participants 	<ul style="list-style-type: none"> • Brainstormed regarding the Undergraduate Research Strategic Initiative
Spring 2024 January	<ul style="list-style-type: none"> • Convened CI-DS PST meetings (11) • Convened CI DS Co-chair meetings (5) 	<ul style="list-style-type: none"> • Hosted NIH Academy Meet-and-Greet 	<ul style="list-style-type: none"> • Prepared for Undergraduate Research

	<ul style="list-style-type: none"> • Hosted Speed Networking: Fair and Responsible Data Science event • Reviewed Chancellor Challenge proposals • Selected Chancellor Challenge awardees • Selected Pilot Seed ML/AI Funding awardees • Worked with Chancellor Challenge awardees on Phase II of proposals and budgets • Convened Research Deans roundtables (11 meetings) • VPLSRP continued Stage 1 of LSA PST: Listening Tour • Convened LSA PST Champions meeting • Released the Research Ideation Forum on the Future of Learning & Work abstract call and selected participants • Mentored Program Development Specialist • Launched faculty cluster hires in Climate & Energy and ML/AI • Developed School-to-School Joint Hires • Developed Sponsored Programs Facilities and Administrative Costs Policy w/OfR 	<ul style="list-style-type: none"> • Hosted Research Development Professionals retreat • Selected Provost Leadership Research Fellows and convened mentorship meetings (7) 	<p>Discovery Day with the Vice Provost of Undergraduate Education and team</p>
<p>Summer 2023 June</p>	<ul style="list-style-type: none"> • Launched 3rd Research Ideation Forum on the Future of Learning & Work • Created Future of Learning & Work Pilot Seed Funding RFP • Finalized Chancellor Challenge Awards Budgets and Proposals (previously called Chancellor Challenge) • LSA PST Selected Executive Steering Committee • LSA PST met with Executive Steering Committee • Created New Chancellor Reporting Institute Model 		<ul style="list-style-type: none"> • Prepared for Undergraduate Research Discovery Day with the Vice Provost of Undergraduate Education and Team

Appendix B: FY 24 Strategic Initiatives Timeline

	AMP Priority 1* Activities	AMP Priority 2* Activities	AMP Priority 3* Activities
Summer 2023 July–August	<ul style="list-style-type: none"> • LSA PST Preparation (15 meetings) • Finalize Chancellor Challenge proposals and budgets with teams • Complete Chancellor Reporting Institute Model • Hire NEW Senior Program Coordinator 	<ul style="list-style-type: none"> • Convene NIH Academy working sessions with Research Development Professionals (4 sessions) • Finalize report from Publicly/Community Engaged Scholarship with Provost & Executive Vice Chancellor for Academic Affairs 	<ul style="list-style-type: none"> • Undergraduate Research Discovery Day Preparation with the Vice Provost of Undergraduate Education and team (5 meetings)
Fall 2023 September–December	<ul style="list-style-type: none"> • Send out the call for Provost Research Leadership Fellows nominations • Host LSA PST Kickoff • Host LSA PST Townhall • Convene LSA PST meetings (12); interim report due • Host PST Thank-You Celebration • Convene Research Deans roundtables (11 meetings) • Update Chancellor Challenge website w/ launch of teams (RCEI, CASS, Notice Nature) • Continue PST Behavioral Health and Health Equity Stage 1 • Initiated Pilot Seed Funding review for the Future of Learning & Work • Center/Institute reviews • Speed Networking: RBHS/RU-NB • LSA Symposium preparations 	<ul style="list-style-type: none"> • Convene NIH R01 Academy (15 Sessions) • Mentor Provost Leadership Research Faculty Fellows 	<ul style="list-style-type: none"> • Host Undergraduate Research Discovery Day • Graduate Student/Postdoc Research Ideation Forum Preparation
Spring 2024 January–May	<ul style="list-style-type: none"> • Convene Research Deans roundtables (11 meetings) • PST Behavioral Health and Health Equity Stage 1, continues • Host Center/Institute Director conference • Launch LSA Symposium • Convene LSA PST Meetings (14) • Complete and submit LSA PST Final Report • Host Research Ideation Forum alumni event • Advertise call for Supplemental Awards (for previously Pilot Seed Funding awardees) 	<ul style="list-style-type: none"> • Provost Research Leadership Fellows begin their appointments 	<ul style="list-style-type: none"> • Graduate Student/Postdoc Research Ideation Forum on Life Sciences Alliance Preparation

Summer 2024
June

- Launch 4th Research Ideation Forum on the Life Sciences Alliance
- Climate Change and Cyberinfrastructure-Data Science Research Chancellor Challenge Initiatives ongoing

- Undergraduate Research Discovery Day Preparation with the Vice Provost of Undergraduate Education and team

OVPR FY 23/FY 24 AMP Pillar II, Innovative Research Priorities Legend

AMP, Priority 1	Increase impact of Rutgers research, including interdisciplinary research and community-engaged research
AMP, Priority 2	Increase equitable representation of all communities in the research process, including diversity of faculty and access to infrastructure and resources
AMP, Priority 3	Tighten the connection between research and education by strengthening the opportunities for student research at all levels

Appendix C: OVPR FY 23 Snapshots Working Definitions

Title	Definition/Description
Pilot Seed Funding Awarded	Total amount of funding given
Events & Roundtables	Research Ideation Forums, Champions Meeting, Speed Networking, Mixer, Retreats
	Research Deans Roundtable Meetings, PST Roundtable Meetings
NB Community Participants	Total in attendance at each event
Applications reviewed for pilot seed funding	Total applied and were reviewed
Applications reviewed for research ideation forums	Total applied and were reviewed
Leadership mentorship	Research deans, fellows, RDPs (NIH Academy)
C-P Challenge reviews	Total applied and were reviewed
Invited presenters	Total of invited presenters for different events/roundtables/meetings
RU-NB Schools served	Total number of schools OVPR served this FY

Appendix D: Provost Strategic Task Forces

Climate Change

Taskforce Members:

- Debashish Bhattacharya, Distinguished Professor, School of Environmental and Biological Sciences
- Dunbar Birnie, Professor & Corning/Saint Gobain/Malcolm G. McLaren Chair, Materials Science and Engineering, School of Engineering
- Anthony Broccoli, Distinguished Professor of Atmospheric Science, School of Environmental and Biological Sciences
- Robin Leichenko, Professor and Co-Director of the Rutgers Climate Institute
- Julie Lockwood, Professor and Chair of the Department of Ecology, Evolution, and Natural Resources, School of Environmental and Biological Sciences
- Oscar Schofield, Distinguished Professor and Chair of Marine and Coastal Sciences, School of Environmental and Biological Sciences
- Rachael Shwom, Associate Professor, School of Environmental and Biological Sciences and Associate Director, Rutgers Energy Institute (REI)
- James (Jim) Wright, Professor, Department of Marine and Coastal Sciences, School of Environmental and Biological Sciences

Cyberinfrastructure & Data Science

Taskforce Members:

- Mark Aakhus, Co-Chair, Associate Dean for Research Professor of Communication, School of Communication and Information
- J. Barr von Oehsen, Co-Chair, Associate Vice President, Office of Advanced Research Computing
- Alyson Brooks, Associate Professor, School of Arts and Sciences, Department of Physics and Astronomy
- Yuebin Guo, Henry Rutgers Professor of Advanced Manufacturing, School of Engineering, Department of Mechanical & Aerospace Engineering
- Ronald Hart, Professor, School of Arts and Sciences, Department of Cell Biology & Neuroscience
- Woojin Jung, Assistant Professor, School of Social Work
- Regina Liu, Distinguished Professor, School of Arts and Sciences, Department of Statistics
- Meredith McGill, Professor and Chair, School of Arts and Sciences, Department of English
- Thu Nguyen, Dean of Mathematical and Physical Sciences, Professor, School of Arts and Sciences, Department of Computer Science
- Katherine Ognyanova, Associate Professor, School of Communication and Information
- Jaideep Vaidya, Distinguished Professor and Department Vice Chair, Rutgers Business School, Management Science & Information Systems

Major Stakeholders:

- Yana Bromberg, Professor, School of Environmental and Biological Sciences, Department of Biochemistry and Microbiology
- Stephen K. Burley, University Professor and Henry Rutgers Chair, Institute for Quantitative Biomedicine, RCSB Protein Data Bank
- Enrique Curchitser, Professor, School of Environmental and Biological Sciences, Department of Environmental Sciences

- Richard Ebright, Board of Governors Professor of Chemistry and Chemical Biology, School of Arts and Sciences, Department of Chemistry and Chemical Biology
- Lauren M. E. Goodlad, Distinguished Professor & Chair of Critical AI @ Rutgers, School of Arts and Sciences, Department of English
- Shantenu Jha, Professor, School of Engineering, Department of Electrical & Computer Engineering
- Matthew Weber, Associate Professor, School of Communication and Information, Department of Communication
- John Wilkin, Professor, School of Environmental and Biological Sciences, Department of Marine and Coastal Sciences

Staff Liaison:

- Sheila Borges Rajguru, Director for Research Development & Strategy, Office of the Vice Provost for Research

RU–NB Champions

Name	Title	School
Mark A. Aakhus	Associate Dean for Research	School of Communication and Information
Clinton J. Andrews	Associate Dean for Faculty	Edward J. Bloustein School of Planning and Public Policy
Consuella Askew	VP of University Libraries	Rutgers–New Brunswick Library
Gary Aston-Jones	Distinguished Professor/Director	Brain Health Institute
Wanda J. Blanchett	Dean	Graduate School of Education
Stephen Burley	Executive Vice Chancellor	Institute for Quantitative Biomedicine
Petra Christmann	Vice Dean of Faculty Affairs and Research	Rutgers Business School
Wendie Cohick	Director/ Dean of Research	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Lori Covey	Dean of Life Sciences	School of Arts and Sciences
Alberto Cuitino	Interim Dean	School of Engineering
Rebecca Cypess	Associate Dean for Academic Affairs	Mason Gross School of the Arts
Robin L. Davis	Vice Dean for Research and Graduate Education	School of Arts and Sciences
Adrienne Eaton	Dean	School of Management and Labor Relations
Marybeth Gasman	Associate Dean for Research, Faculty Development, and Research Outreach	Graduate School of Education
Jason Geary	Dean	Mason Gross School of the Arts
Arpana G. Inman	Dean	Graduate School of Applied and Professional Psychology
Ken Irvine	Director	Waksman Institute of Microbiology
Jim Knowles	Executive Director	Human Genetics Institute
Eldo Kuzhikandathil	Proxy for Gary Aston-Jones	Brain Health Institute
Susan Lawrence	Co-Interim Executive Dean	School of Arts and Sciences
Laura Lawson	Executive Dean	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences

Lei Lei	Dean	Rutgers Business School
Dafna Lemish	Interim Dean	School of Communication and Information
Mingwei Liu	Associate Dean for Research	School of Management and Labor Relations
Dee Magnoni	Associate University Librarian	Rutgers–New Brunswick Library
Jim Masschaele	Co-Interim Executive Dean	School of Arts and Sciences
Thu Nguyen	Dean of Mathematical and Physical Sciences	School of Arts and Sciences
Jennifer Perillo	Proxy for Andrew Peterson	School of Social Work
Andrew Peterson	Associate Dean for Research	School of Social Work
Cathryn C. Potter	Dean	School of Social Work
Linda A. Reddy	Associate Dean of Research	Graduate School of Applied and Professional Psychology
Stuart Shapiro	Interim Dean	Edward J. Bloustein School of Planning and Public Policy
Wade K. Trappe	Associate Dean for Academic Programs	School of Engineering
David Vicario	Dean of Social and Behavioral Sciences	School of Arts and Sciences
Rebecca Walkowitz	Dean of Humanities	School of Arts and Sciences

PST Cyberinfrastructure Data Science Abbreviated Schedule

Date	Theme
6-Oct-22	Kickoff Meeting
14-Oct-22	QuickPoll results, review outcome document
21-Oct-22	Speakers: Dr. Yana Bromberg (Professor, SEBS Department of Biochemistry and Microbiology); Dr. Lauren Goodlad (Distinguished Professor of English; SAS Department of English)
28-Oct-22	Speakers: Dr. James Wilgenbusch (Director of Research Computing at the University of Minnesota, Twin Cities); Dr. Nick Tsinoremas (Vice Provost for Research Computing at the University of Miami)
4-Nov-22	Speakers: Dr. Shantenu Jha (Research in Advanced Cyberinfrastructure and Applications Laboratory); Dr. Stephen Burley (Institute for Quantitative Biomedicine)
11-Nov-22	Speaker: Dr. Barr von Oehsen (Office of Advanced Research Computing)
18-Nov-22	Speakers: Dr. Enrique Curchister (Professor of Climate; Atmospheric Science Group RU-NB); Dr. John Wilkin (Professor; SEBS Department of Marine and Coastal Sciences)
2-Dec-22	Report planning and development: create list of recommendations and work backwards, identifying aspirational peers, administrative leaders, RCM, technical dimensions, and existing groups at RU.
9-Dec-22	Speaker: Dr. Matt Weber (Associate Professor of Communication, SCI) Discussion of Peer Institutions (U Michigan, Ohio State, Illinois, U Tennessee, U Washington, UC San Diego, UC Berkeley, Northeastern U, U Southern Cal)
16-Dec-22	Develop recommendation framework, including further discussion of peers and other findings, delegating topics for report, funding agencies' data management plans.
20-Jan-23	Create a plan to navigate the space and develop document

27-Jan-23	Recommendation Discussion 1: Breakout groups begin developing sections of the recommendation report.
3-Feb-23	Recommendation Development: Breakout groups meet to review the criteria questions in the draft to develop further.
10-Feb-23	Recommendation Discussion 2 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
17-Feb-23	Recommendation Discussion 3 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
24-Feb-23	Recommendation Discussion 4 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
3-Mar-23	Recommendation Discussion 5 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
10-Mar-23	Recommendation Discussion 6 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
17-Mar-23	Recommendation Discussion 7 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
24-Mar-23	Recommendation Discussion 8 and Budget (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
31-Mar-23	Recommendation Discussion 9 (breakout groups to dive into developing sections of the recommendation report and then meeting to review the criteria questions in the draft to further develop)
21-Apr-23	VPR Hien Interim Report Discussion
28-Apr-23	Report Part 1 Finalization
5-May-23	Part 1 Refinements
12-May-23	Part 2 Refinements
19-May-23	Meeting with VPR
15-Jun-23	Submit final report

Publicly Engaged/Community-Engaged Scholarship

Taskforce Members:

- Denise Hien, Co-Chair, Vice Provost for Research, Office of the Chancellor
- Sandra Tomlinson-Clarke, Co-Chair, Senior Vice Provost for Academic and Faculty Affairs, Office of the Chancellor
- Emily Allen-Hornblower, Associate Professor of Classics, School of Arts and Sciences, Department of Classics
- W. Steven Barnett, Board of Governors Professor of Education, Graduate School of Education, Senior Co-Director, National Institute for Early Education Research
- Sheila Borges Rajguru, Director for Research Development and Strategy, Office of the Vice Provost for Research
- Brittney Cooper, Associate Professor, School of Arts and Sciences, Department of Women's, Gender, and Sexuality Studies

- Laura Curran, Vice Provost for Faculty Affairs, Office of the Chancellor
- Sara Elnakib, Chair/Program Leader, New Jersey Agricultural Experiment Station, Department of Family and Community Health Sciences
- Nichole Garcia, Assistant Professor of Higher Education, Graduate School of Education, Educational Psychology
- Alexander Guerrero, Professor, School of Arts and Sciences, Department of Philosophy
- Andrea Hetling, Provost Leadership Research Fellow, Office of the Vice Provost for Research
- Radha Jagannathan, Professor, Edward J. Bloustein School of Planning and Public Policy
- Brooke Maslo, Associate Professor, School of Environmental and Biological Sciences, Department of Ecology, Evolution and Natural Resources
- Saul Rubinstein, Professor, School of Management and Labor Relations, Labor Studies and Employment Relations Director, Center for the Study of Collaboration in Work and Society
- Nancy Wolff, Distinguished Professor, Edward J. Bloustein School of Planning and Public Policy
- Todd Wolfson, Associate Professor of Journalism and Media Studies, School of Communication and Information, Co-Director of the MIC Center

Life Sciences Alliance

Abbreviated Schedule

Date	Theme
November 2022–January 2023	Background research/benchmarking for current Life Sciences institutes, centers, schools, etc.
December 2022–February 2023	Life Sciences Listening Tour (meetings with NB school leadership)
February–March 2023	Generate Champions meeting invite list, meeting materials, work with Lewis-Burke representatives for federal landscape
April 2023	Champions meeting (April 11, 2023); receive nominations for taskforce/committee members
May 2023	Select of Executive Steering Committee (ESC); meet with ESC; select of Advisory Group (AG)
June 2023	Select task force members (work through July for final list); invite task force members, reserve space for meetings, and invite members to the meeting dates
July 2023	Finalize PST meeting schedule; invite guest speakers
August 2023	Update OVPR website with task force members; plan kick-off meeting
September 2023	Kick-off meeting; weekly meetings for task force
October 2023–May 2024	Weekly meetings for task force

Listening Tour List

Name	Title	School
Mark Aakhus	Associate Dean for Research	School of Communication and Information
Gary Aston-Jones	Professor; Director	Brain Health Institute
Marty Blazer	Director of CABM; Henry Rutgers Chair of the Human Microbiome	Center for Advanced Biotechnology and Medicine
Stephen Burley	Henry Rutgers Chair and University Professor; Director	Institute for Quantitative Biomedicine

Wendie Cohick	Director/Dean of Research	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Lori Covey	Dean of Life Sciences	School of Arts and Sciences
Alberto Cuitino	Dean of Engineering	School of Engineering
Robin Davis	Vice Dean of Research and Graduate Education	School of Arts and Sciences
Ken Irvine	Distinguished Professor of Molecular Biology and Biochemistry; Director	Waksman Institute of Microbiology
Jim Knowles	Distinguished Professor of Genetics; Director	Human Genetics Institute
Susan Lawrence	Associate Professor of Political Science, Interim Co-Executive Dean	School of Arts and Sciences
Laura Lawson	Executive Dean of Agriculture and Natural Resources	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Jim Masschaele	Professor of History; Interim Co-Executive Dean	School of Arts and Sciences
Thu Nguyen	Dean of Mathematical and Physical Sciences	School of Arts and Sciences
Libby O'Hare	Senior Principal	Biomedical Research Advocacy
Bishr Omary	Senior Vice Chancellor for Academic Affairs and Research	Center for Advanced Biotechnology and Medicine
Kathy Scotto	Vice Chancellor for Research, Dean	Rutgers Biomedical and Health Sciences
Wade Trappe	Associate Dean for Academic Programs	School of Engineering
Mike Zwick	Senior Vice President for Research	Office for Research

Life Sciences Alliance Champions

Name	Title	School
Mark A. Aakhus	Associate Dean for Research	School of Communication and Information
Clinton J. Andrews	Associate Dean for Faculty	Edward J. Bloustein School of Planning and Public Policy
Consuella Askew	VP of University Libraries	Rutgers New Brunswick Library
Gary Aston-Jones	Distinguished Professor/Director	Brain Health Institute
Wanda J. Blanchett	Dean	Graduate School of Education
Stephen Burley	Executive Vice Chancellor	Institute for Quantitative Biomedicine
Petra Christmann	Vice Dean of Faculty Affairs and Research	Rutgers Business School
Wendie Cohick	Director/ Dean of Research	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Lori Covey	Dean of Life Sciences	School of Arts and Sciences
Alberto Cuitino	Interim Dean	School of Engineering
Rebecca Cypess	Associate Dean for Academic Affairs	Mason Gross School of the Arts
Robin L. Davis	Vice Dean for Research and Graduate Education	School of Arts and Sciences
Adrienne Eaton	Dean	School of Management and Labor Relations

Marybeth Gasman	Associate Dean for Research, Faculty Development, and Research Outreach	Graduate School of Education
Jason Geary	Dean	Mason Gross School of the Arts
Arpana G. Inman	Dean	Graduate School of Applied and Professional Psychology
Ken Irvine	Director	Waksman Institute of Microbiology
Jim Knowles	Executive Director	Human Genetics Institute
Eldo Kuzhikandathil	Proxy for Gary Aston-Jones	Brain Health Institute
Susan Lawrence	Co-Interim Executive Dean	School of Arts and Sciences
Laura Lawson	Executive Dean	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Lei Lei	Dean	Rutgers Business School
Dafna Lemish	Interim Dean	School of Communication and Information
Mingwei Liu	Associate Dean for Research	School of Management and Labor Relations
Dee Magnoni	Associate University Librarian	Rutgers New Brunswick Library
Jim Masschaele	Co-Interim Executive Dean	School of Arts and Sciences
Thu Nguyen	Dean of Mathematical and Physical Sciences	School of Arts and Sciences
Jennifer Perillo	Proxy for Andrew Peterson	School of Social Work
Andrew Peterson	Associate Dean for Research	School of Social Work
Cathryn C. Potter	Dean	School of Social Work
Linda A. Reddy	Associate Dean of Research	Graduate School of Applied and Professional Psychology
Stuart Shapiro	Interim Dean	Edward J. Bloustein School of Planning and Public Policy
Wade K. Trappe	Associate Dean for Academic Programs	School of Engineering
David Vicario	Dean of Social and Behavioral Sciences	School of Arts and Sciences
Rebecca Walkowitz	Dean of Humanities	School of Arts and Sciences

Executive Steering Committee

Name	Title	School
Stephen Burley	Henry Rutgers Chair and University Professor	Institute for Quantitative Biomedicine
Wendie Cohick	Director/ Dean of Research	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Lori Covey	Dean of Life Sciences	School of Arts and Sciences
Ken Irvine	Distinguished Professor of Molecular Biology and Biochemistry	Waksman Institute of Microbiology
Jim Knowles	Distinguished Professor of Genetics	Human Genetics Institute
Wade Trappe	Associate Dean for Academic Programs	School of Engineering

Research Deans Advisory Group

Name	Title	School
Mark Aakhus	Associate Dean for Research	School of Information & Communication
Clinton Andrews	Associate Dean for Faculty	Edward J. Bloustein School of Planning and Public Policy
Petra Christmann	Vice Dean of Faculty Affairs and Research	Rutgers Business School
Rebecca Cypess	Associate Dean for Academic Affairs	Mason Gross School of the Arts
Robin Davis	Vice Dean for Research and Graduate Education	School of Arts and Sciences
Marybeth Gasman	Associate Dean for Research, Faculty Development, and Research Outreach	Graduate School of Education
Mingwei Liu	Associate Dean for Research	School of Management and Labor Relations
Dee Magnoni	Associate University Librarian	Rutgers New Brunswick Library
Thu Nguyen	Dean of Mathematical and Physical Sciences	School of Arts and Sciences
Lia Nower	Professor and Director of the Center for Gambling Studies	School of Social Work
Linda Reddy	Associate Dean of Research	Graduate School of Applied and Professional Psychology
David Vicario (other)	Dean of Social and Behavioral Sciences	School of Arts and Sciences
Rebecca Walkowitz	Dean of Humanities	School of Arts and Sciences

Invited Faculty Task Force Members

Invited

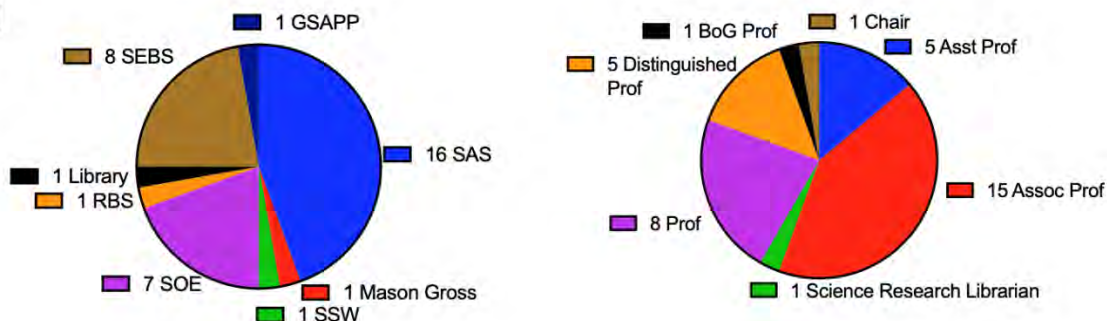


Figure 4: Invited Number of Faculty/School & Titles

Invited Task Force Members Table

Name	Title	School Affiliation
Vanessa Bal	Associate Professor	Graduate School of Applied and Professional Psychology
Annika Barber	Assistant Professor	School of Arts and Sciences
Nicholas Bello	Professor	School of Environmental and Biological Sciences
Debashish Bhattacharya	Distinguished Professor	School of Environmental and Biological Sciences
Kasia Bieszczad	Associate Professor	School of Arts and Sciences

Shishir Chundawat	Associate Professor	School of Engineering
Monica Driscoll	Distinguished Professor	School of Arts and Sciences
Chris Ellison	Associate Professor	School of Arts and Sciences
Nicole Fahrenfeld	Associate Professor	School of Engineering
Paul Falkowski	Marine and Coastal Sciences	School of Environmental and Biological Sciences
Patricia Findley	Associate Professor	School of Social Work
Bonnie Firestein	Professor	School of Arts and Sciences
Jeff Friedman	Professor of Dance	Mason Gross School of the Arts
Adam Gormley	Assistant Professor	School of Engineering
Bingru Huang	Distinguished Professor	School of Environmental and Biological Sciences
Sagar Khare	Associate Professor	School of Arts and Sciences
Mike Kiledjian	Distinguished Professor	School of Arts and Sciences
Kelvin Kwan	Associate Professor	School of Arts and Sciences
Ki-Bum Lee	Distinguished Professor	School of Arts and Sciences
Mei Ling Lo	Librarian	Rutgers University Library
Steven Malin	Associate Professor	School of Arts and Sciences
David Margolis	Associate Professor	School of Arts and Sciences
Tara Matise	Professor	School of Arts and Sciences
John McGann	Professor	School of Arts and Sciences
Travis Miles	Associate Professor	School of Environmental and Biological Sciences
Joshua Miller	Professor	School of Environmental and Biological Sciences
Biju Parekkadan	Associate Professor	School of Engineering
Karen Schindler	Associate Professor	School of Arts and Sciences
Johanna Schoen	Professor	School of Arts and Sciences
Ben Schuster	Assistant Professor	School of Engineering
Igor Shmarakov	Assistant Professor	School of Environmental and Biological Sciences
David Shreiber	Chair and Professor	School of Engineering
Alvaro Toledo	Assistant Professor	School of Environmental and Biological Sciences
Maribel Vazquez	Professor	School of Engineering
Lu Wang	Associate Professor	School of Arts and Sciences
Danni Wang	Associate Professor	Rutgers Business School

Appendix E: Research Ideation Forums

Machine Learning/Artificial Intelligence

Political Polarization Dynamics

- James Abello, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science
- Karl Stratos, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science
- Haoyang Zhang, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science
- Adam Gormley, PhD, Rutgers University–New Brunswick School of Engineering, Department of Biomedical Engineering
- David Sleat, PhD, Center for Advanced Biotechnology and Medicine, Robert Wood Johnson Medical School
- Peter Lobel, PhD, Center for Advanced Biotechnology and Medicine, Robert Wood Johnson Medical School

Non-Invasive Blood Viscosity Estimation Using Ultrasound Videos of Carotid Blood Flow

- Shirin Jalali, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering
- Valerie Tutwiler, PhD, Rutgers–New Brunswick School of Engineering, Department of Biomedical Engineering
- Andrew Iskander, MD, Rutgers–Newark Beth Israel Medical Center, Rutgers Biomedical and Health Science, Department of Anesthesiology

Performance Guaranteed Machine Learning and Artificial Intelligence Methods for Biochemical and Biophysical

- Sijian Wang, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Statistics
- Sagar Khare, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Chemistry and Chemical Biology
- Lu Wang, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Chemistry and Chemical Biology
- Minge Xie, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Statistics
- Min Xu, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Statistics

IMAGINE: Exploring Machine Learning in Population Health

- Ioannis (Yannis) P. Androulakis, PhD, Rutgers–New Brunswick School of Engineering, Department of Biomedical Engineering
- Tobias Gerhard, PhD, FISPE; Rutgers Biomedical and Health Science Earnest Mario School of Pharmacy; Institute for Health, Health Care Policy, and Aging Research; Director, Center for Pharmacoepidemiology and Treatment Science
- Vinod Rustgi, MD, MBA, Robert Wood Johnson Medical School, Department of Medicine, Division of Gastroenterology, Director of Hepatology

Privacy Protection in Trustworthy AI Systems

- Ruobin Gong, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Statistics
- Anand Sarwate, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering
- Jalaj Upadhyay, PhD, Rutgers Business School, Department of Management and Information Systems
- Jie Gao, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science

Using Large Language Models to Reduce Polarization in Online Political Discussions

- Thomas Davidson, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Sociology
- Kiran Garimella, PhD, Rutgers School of Communication and Information, Department of Library and Information Science

Developing Context-aware, Human Interpretable AI Algorithms to Support Poverty Mapping

- Woojin Jung, PhD, Rutgers–New Brunswick School of Social Work, Global Health Institute
- Dimitris Metaxas, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science
- Dimitris Ntarlagiannis, PhD, Rutgers–Newark School of Arts and Sciences, Department of Earth & Environmental Sciences

Problem Gambling and Reddit: Discussions of Help-seeking on an Online Forum

- Mark van der Maas, PhD, Rutgers–New Brunswick School of Social Work, Center for Gambling Studies

- Thomas Davidson, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Sociology

DESIGN JUSTICE LABS: Interventions in Language Technology for the 21st Century

- Lauren M. E. Goodlad, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of English
- Matthew Stone, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science

Scalable Assimilation and Multi-model Prediction using Learning and Ensembles (SAMPLE)

- Shantenu Jha, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering
- Robert Kopp, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Earth and Planetary Sciences
- Travis Miles, PhD, Rutgers–New Brunswick School of Environmental and Biological Sciences, Department of Marine & Coastal Sciences

Best Practices for Computational Social Science

- Sarah Shugars, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Communication
- Tawfiq Ammari, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Library and Information Science
- Sophia Fu, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Communication
- Jessica L. Hamilton, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Psychology
- Matthew Weber, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Communication
- Marya Doerfel, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Communication

Enabling Precision Medicine in Psychiatry Through Advances in Machine Learning for Multimodal Neuroimaging Data

- Waheed U. Bajwa, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering
- David Zald, PhD, Center for Advanced Human Brain Imaging Research, Robert Wood Johnson Medical School
- Linden Parkes, PhD, Center for Advanced Human Brain Imaging Research, Robert Wood Johnson Medical School

Responsible AI for Health Equity

- Vivek Singh, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Library and Information Science
- Matthew Matsaganis, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Communication
- Lisa Mikesell, PhD, Rutgers–New Brunswick School of Communication & Information, Department of Communication
- Vincent Silenzio, MD, MPH, Rutgers–Newark School of Public Health, Urban-Global Public Health
- Riva Touger-Decker, PhD, Rutgers–Newark School of Public Health, Clinical and Preventive Nutrition Sciences
- Jaideep Vaidya, PhD, Rutgers Business School–Newark, Department of Management Science & Information Systems

- Pamela Valera, PhD, Rutgers–Newark School of Public Health, Department of Urban-Global Public Health
- Ryan White, PhD, Rutgers–Newark School of Public Health, Department of Physician Assistant Studies

AI for Marine Mammals: Managing Wind-Whale Co-Existence

- Ahmed Aziz Ezzat, PhD, Rutgers–New Brunswick School of Engineering, Department of Industrial & Systems Engineering
- Josh Kohut, PhD, Rutgers–New Brunswick School of Environmental and Biological Sciences, Department of Marine & Coastal Sciences

Developing AI systems for Workforce Development with Rational Thinking and Acting Capabilities by Leveraging Social Impact Analysis

- Meiyin Liu, PhD, Rutgers–New Brunswick School of Engineering, Department of Civil & Environmental Engineering
- Michelle Van Noy, PhD, Rutgers–New Brunswick School of Management and Labor Relations, Department of Education and Employment Research Center

Physics-Informed Machine Learning (PIML): A New Paradigm to Integrate ML and Physical Systems

- Yuebin Guo, PhD, Rutgers–New Brunswick School of Engineering, Department of Advanced Manufacturing Mechanical & Aerospace Engineering
- Xiaoli Bai, PhD, Rutgers–New Brunswick School of Engineering, Department of Mechanical & Aerospace Engineering
- Weihong Guo, PhD, Rutgers–New Brunswick School of Engineering, Department of Industrial and Systems Engineering
- Jorge Ortiz, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering
- Rohit Ramachandran, PhD, Rutgers–New Brunswick School of Engineering, Department of Chemical and Biochemical Engineering
- Hao Wang, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science
- Jingang Yi, PhD, Rutgers–New Brunswick School of Engineering, Department of Mechanical & Aerospace Engineering
- Bo Yuan, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering

IMPRESS: Interpretable Machine-learning for PRotein Structures at Scale

- Shantenu Jha, PhD, Rutgers–New Brunswick School of Engineering, Department of Electrical and Computer Engineering
- Sagar Share, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Chemistry and Chemical Biology

Future of Learning & Work

Addressing Wealth Inequality: Capital Shares for the Working Middle Class

- Joseph Blasi, EdD, Rutgers–New Brunswick School of Management & Labor Relations, Department of Human Resource Management

- Douglas Kruse, PhD, Rutgers–New Brunswick School of Management & Labor Relations, Department of Human Resource Management
- Tobias Schulze-Cleven, PhD, Rutgers–New Brunswick School of Management & Labor Relations, Department of Labor Studies & Employment Relations

Building a Resilient Workforce through Trauma-Informed Practices

- Andrea Hetling, PhD, Rutgers–New Brunswick E. J. Bloustein School of Planning & Public Policy, Heldrich Center for Workforce Development
- Victoria Banyard, PhD, Rutgers–New Brunswick School of Social Work, Center for Research on Ending Violence
- Yen-Tyng Chen, PhD, Rutgers–New Brunswick E. J. Bloustein School of Planning & Public Policy, Public Health Program
- Rupa Khetarpal, MSW, Rutgers–New Brunswick School of Social Work, Violence Against Women and Children
- Sarah McMahan, PhD, Rutgers–New Brunswick School of Social Work, Center for Research on Ending Violence
- Sharifa Williams, PhD, Rutgers–New Brunswick E. J. Bloustein School of Planning & Public Policy, Public Health Program

Wearable Safety Sensing and Assistive Robots for a Disability-Inclusive Construction Workforce

- Jingang Yi, PhD, Rutgers–New Brunswick School of Engineering, Department of Mechanical and Aerospace Engineering
- Xiangmin Liu, PhD, Rutgers–New Brunswick School of Management and Labor Relations, Department of Human Resource Management and Labor Studies and Employment Relations

A Human-Interpretable Automatic Grader for Word Problems in Engineering Disciplines

- Meiyin Liu, PhD, Rutgers–New Brunswick School of Engineering, Department of Civil & Environmental Engineering
- Dake Zhang, PhD, Rutgers–New Brunswick Graduate School of Education, Department of Educational Psychology

Cognitive underpinnings and the developmental trajectory of gender and racial stereotypes in early childhood math education

- Jenny Wang, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Psychology & Cognitive Sciences
- Daniel Battey, PhD, Rutgers–New Brunswick Graduate School of Education, Department of Learning and Teaching

Supporting Age-Friendly Community Work through the Development of a Partnerships Platform

- Emily A. Greenfield, PhD, Rutgers–New Brunswick School of Social Work, Hub for Aging Collaboration
- Sarah Allred, PhD, Rutgers–Camden School of Arts and Sciences, Department of Psychology

Developing AI systems for workforce training with rational thinking and acting capabilities by leveraging social impact analysis

- Meiyin Liu, PhD, Rutgers–New Brunswick School of Engineering, Department of Civil & Environmental Engineering
- Michelle Van Noy, PhD, Rutgers–New Brunswick School of Management and Labor Relations, Department of Education and Employment Research Center

From Resumes to Algorithms: Preliminary Findings on Employers' Use of AI-Enabled Hiring Practices

- Xiangmin Liu, PhD, Rutgers–New Brunswick School of Management and Labor Relations, Department of Human Resource Management and Labor Studies and Employment Relations
- Adrienne E. Eaton, PhD, Rutgers-New Brunswick School of Management and Labor Relations, Department of Labor Studies and Employment Relations and the Center for Work and Health
- Todd E. Vachon, PhD, Rutgers–New Brunswick School of Management and Labor Relations, Department of Labor Studies and Employment Relations; LEARN
- Yongfeng Zhang, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science

Make HAI when the sun shines! Development of Bias & Ambiguity Identification Models with a Human-Centered AI Perspective.

- Jim Samuel, PhD, MBA, Rutgers–New Brunswick E. J. Bloustein School of Planning & Public Policy, Department of Public Relations
- Rick Anderson, BS, Rutgers–New Brunswick School of Communication & Information, Virtual Worlds–Game Research and Immersive Designs
- Carmela Scala, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Italian
- Chloe Kitzinger, PhD, Rutgers–New Brunswick School of Arts and Sciences, Department of Russian and East European Languages and Literatures
- Colin Philip, Rutgers–New Brunswick OIT-Infrastructure, Incident Response Analysis

Appendix F: Pilot Seed Funding Awarded

Gun Violence Projects

Gun Violence Exposure on Social Media and Youth Mental Health

Principal Investigators

- Jessica Leigh Hamilton, Rutgers–New Brunswick School of Arts and Sciences, Psychology
- Daniel Charles Semenza; Rutgers–Camden Faculty of Arts and Sciences; Sociology, Anthropology, and Criminal Justice; Rutgers Biomedical and Health Sciences School of Public Health; Urban-Global Health

Co-Investigators

- Paul Boxer, Rutgers–Newark School of Arts and Sciences, Psychology
- Jeffrey Lane, Rutgers–New Brunswick School of Communication and Information, Communication
- Linda Oshin, Rutgers–New Brunswick Graduate School of Applied and Professional Psychology, Clinical Psychology

Chancellor-Led Unit(s): New Brunswick, Camden, Newark

Departments: Psychology; Sociology; Communications

Awarded: \$40,000

Understanding Suicide and Gun Violence in New Jersey through partnerships between Rutgers and the Office of the Chief State Medical Examiner

Principal Investigators

- Evan Kleiman, Rutgers–New Brunswick School of Arts and Sciences, Psychology
- Shireen Rizvi, Rutgers–New Brunswick Graduate School of Applied and Professional Psychology, Clinical Psychology
- Paul Duberstein; Rutgers Biomedical and Health Sciences; Health Behavior, Society, and Policy

Co-Investigator

- Andrew Falzon, Chief State Medical Examiner for the State of New Jersey, Rutgers Biomedical and Health Sciences, Pathology & Laboratory Medicine

Chancellor-Led Unit(s): New Brunswick, Rutgers Biomedical and Health Sciences

Departments: Health Behavior, Society, and Policy; Clinical Psychology; Pathology & Laboratory Medicine

Awarded: \$49,888

Excessive Bleeding Following Gun Shot Injury

Principal Investigators

- Valerie Tutwiler, Rutgers–New Brunswick School of Engineering, Biomedical Engineering
- Joseph Hanna, Rutgers Biomedical and Health Sciences Robert Wood Johnson Medical School, Surgery Critical Care

Chancellor-Led Unit(s): New Brunswick, Robert Wood Johnson Medical School

Departments: Biomedical Engineering; Surgery Critical Care

Awarded: \$31,723

Building the Rutgers Gun Violence Care Center (RGVCC) in New Brunswick, NJ: A Multidisciplinary Approach to Health for Firearm Injury Survivors

Principal Investigators

- Rachel Choron, Rutgers Biomedical and Health Sciences, Robert Wood Johnson Medical School Surgery
- Chiara Sabina, Rutgers–New Brunswick School of Social Work, Social Work

Co-Investigators

- Elaine Hewins, Robert Wood Johnson University Hospital
- Nazsa S. Baker, Rutgers Biomedical and Health Sciences, NJ Gun Violence Research Center, School of Public Health
- Jennifer Geller, Rutgers Biomedical and Health Sciences, Medical Student
- Diana Starace, Rutgers Biomedical and Health Sciences, Robert Wood Johnson University Hospital
- Amanda Teichman, Rutgers Biomedical and Health Sciences, Robert Wood Johnson Medical School Surgery
- Zachary Englert, Rutgers Biomedical and Health Sciences, Robert Wood Johnson Medical School Surgery

Chancellor-Led Unit(s): New Brunswick, Rutgers Biomedical and Health Sciences

Departments: Social Work; Robert Wood Johnson University Health

Awarded: \$46,335

Machine Learning / Artificial Intelligence I Projects

Enabling Precision Medicine in Psychiatry Through Advances in Machine Learning for Multimodal Neuroimaging Data

Principal Investigators

- Waheed U. Bajwa, Rutgers–New Brunswick School of Engineering, Department of Electrical & Computer Engineering
- David Zald, Center for Advanced Human Brain Imaging Research, Robert Wood Johnson Medical School
- Linden Parkes, Center for Advanced Human Brain Imaging Research, Robert Wood Johnson Medical School
- Avram Holmes, Center for Advanced Human Brain Imaging Research, Robert Wood Johnson Medical School

Chancellor-Led Unit(s): New Brunswick, Rutgers Biomedical and Health Sciences

School/Dept.: School of Engineering & Psychiatry

Awarded: \$50,000

Stabilization of TPP1 by AI-Guided Robotics for the Treatment of Treatment of Late Infantile Neuronal Ceroid Lipofuscinosis

Principal Investigators

- Adam Gormley, Rutgers University–New Brunswick School of Engineering, Department of Biomedical Engineering
- David Sleat, Center for Advanced Biotechnology and Medicine, Robert Wood Johnson Medical School

Co-Investigator

- Peter Lobel, Center for Advanced Biotechnology and Medicine, Robert Wood Johnson Medical School

Chancellor-Led Unit(s): New Brunswick, Rutgers Biomedical and Health Sciences
School/Dept.: School of Engineering & Biochemistry, Molecular Biology
Awarded: \$50,000

Identifying patterns of misinformation in online gambling communities

Principal Investigators

- Mark van der Maas, Rutgers–New Brunswick School of Social Work, Center for Gambling Studies
- Jim Samuel, Rutgers–New Brunswick E. J. Bloustein School of Planning & Public Policy, Department of Informatics

Chancellor-Led Unit(s): New Brunswick
School/Dept.: School of Social Work & Edward J. Bloustein School of Planning and Public Policy
Awarded: \$43,387

AI for Good: Unlocking Wind-Whale Co-Existence

Principal Investigators

- Ahmed Aziz Ezzat, Rutgers–New Brunswick School of Engineering, Department of Industrial & Systems Engineering
- Josh Kohut, Rutgers–New Brunswick School of Environmental and Biological Sciences, Department of Marine & Coastal Sciences

Chancellor-Led Unit(s): New Brunswick
School/Dept.: School of Engineering and School of Environmental and Biological Sciences
Awarded: \$50,000

Detecting human-interpretable features from satellite imagery to support poverty mapping

Principal Investigators

- Woojin Jung, Rutgers–New Brunswick School of Social Work, Global Health Institute
- Dimitris Metaxas, Rutgers–New Brunswick School of Arts and Sciences, Department of Computer Science
- Dimitrios Ntarlagiannis, Rutgers–Newark School of Arts and Sciences, Department of Earth and Environmental Sciences
- Min Xu, Rutgers–New Brunswick School of Arts and Sciences, Department of Statistics
- Yuan Liao, Rutgers–New Brunswick School of Arts and Sciences, Department of Economics

Co-Investigators

- Quentin Stoeffler, School of Economics, University of Bordeaux, France
- Maryam Hosseini, City Form Lab, MIT
- Simone Nsutezo, AI for Good Lab, Microsoft Research
- Anthony Ortiz, AI for Good Lab, Microsoft Research

Chancellor-Led Units: New Brunswick, Newark,
School/Dept.: SSW, SOE, SAS, MIT, Microsoft, Bordeaux School of Economics, France
Awarded: \$50,000

Appendix G: Speed Networking

Rutgers–New Brunswick and Rutgers Biomedical Health Sciences Mixer

Date	Event	CLU	# people	# of Schools/departments
18-Nov-22	NB/RBHS Mixer	NB/RBHS/OfR	31	21 NB/10 RBHS

List of Attendees

Name	Title	School Affiliation
Sheila Borges Rajguru	Director for Research Development & Strategy	Office of the Vice Provost for Research
Najoua Borkadi	Executive Director for Research Business Development	Rutgers Biomedical and Health Sciences
Brian Buckley	Executive Director of Administration	Rutgers Biomedical and Health Sciences
Petra Christmann	Vice Dean of Faculty Affairs and Research	Rutgers–New Brunswick
Wendie Cohick	Director/ Dean of Research	Rutgers–New Brunswick
Paul Copeland	Associate Dean for Research	Rutgers Biomedical and Health Sciences
Lori Covey	Dean of the Divisions of Live Sciences	Rutgers–New Brunswick
Robin Davis	Vice Dean for Research and Graduate Education	Rutgers–New Brunswick
Marika Dunn	Executive Director of Research Development	Rutgers–New Brunswick
Mark Einstein	Assistant Dean, Clinical Research Unit	Rutgers Biomedical and Health Sciences
Jeetendra Eswaraka	Associate Vice President, Animal Care	Rutgers–New Brunswick
Adrienne Ettinger	Chief of Staff for Research	Rutgers Biomedical and Health Sciences
Celine Gelinias	Senior Associate Dean for Research	Rutgers Biomedical and Health Sciences
Neil Grant	Director for the Office of the Vice Chancellor for Research and Research Training	Rutgers Biomedical and Health Sciences
Paul Hammond	Assistant Vice Chancellor for Technology and Instruction	Rutgers–New Brunswick
Denise Hien	Vice Provost for Research	Rutgers–New Brunswick
Srishti Kaul	Administrative Coordinator	Office of the Chancellor
Eldo Kuzhikandathil	Executive Director of Administration	Rutgers Biomedical and Health Sciences
Debi Lazzarino	Assistant Dean for Research	Rutgers Biomedical and Health Sciences
Dee Magnoni	Associate University Librarian	Rutgers–New Brunswick
Courtney McAnuff	Vice Chancellor for Enrollment Management	Rutgers–New Brunswick
Salvador Mena	Vice Chancellor for Student Affairs	Rutgers–New Brunswick
Carolyn Moehling	Vice Provost for Undergraduate Education	Rutgers–New Brunswick
Deborah Perez Fernandez	Associate Director, Licensing	Rutgers–New Brunswick
Linda Reddy	Associate Dean of Research	Rutgers–New Brunswick

José Román	Vice President, Research Administration and Interim Assistant Vice President, Policy and Training	Rutgers–New Brunswick
Kathy Scotto	Vice Chancellor for Research and Research Training	Rutgers Biomedical and Health Sciences
Todd Slawsky	Executive Director of Finance and Administration	Rutgers–New Brunswick
Vincent Smeraglia	Executive Director, Core Services	Rutgers–New Brunswick
Saundra Tomlinson-Clarke	Senior Vice Provost for Academic and Faculty Affairs	Rutgers–New Brunswick
Valerie Tutwiler	Provost Leadership Research Fellow	Rutgers–New Brunswick
Barr von Oehsen	Associate Vice President, Office of Advanced Research Computing	Rutgers–New Brunswick
Renping Zhou	Associate Dean for Research	Rutgers Biomedical and Health Sciences
Michael Zwick	Senior Vice President for Research	Rutgers–New Brunswick

Speed Networking: Fair and Responsible Data Science

Date	Event	CLU	# people	# of Schools/departments
2-May-23	Speed Networking: Fair and Responsible DS	NB	50	10 NB schools/departments

List of Attendees

Full Name	Title	School
Mark Aakhus	Associate Dean for Research	School of Communication & Information
Tawfiq Ammari	Assistant Professor	School of Communication and Information
Vivien Anthony	Associate Professor	School of Social Work
Jean Baum	Vice Provost for Life Sciences Research and Partnerships	Office of the Vice Provost for Research
Sheila Borges Rajguru	Director of Research Development and Strategy	Office of the Vice Provost for Research
Laura Bowering Mullen	Behavioral Sciences Librarian; Open Access Specialist	Rutgers New Brunswick Libraries
Joseph Casillas	Associate Professor	School of Arts and Sciences
Rong Chen	Distinguished Professor and Chair	School of Arts and Sciences
Weiwei Chen	Associate Professor	Rutgers Business School
Yaqing Chen	Assistant Professor	School of Arts and Sciences
Bala Desinghu	Senior Scientist	Office of Advanced Research Computing
Nuria Diaz-Tena	Associate Professor	Rutgers Business School
Kendra Dickinson	Assistant Professor	School of Arts and Sciences
Jie Gao	Professor	School of Arts and Sciences
Eric Gawiser	Professor	School of Arts and Sciences

Lauren Goodlad	Distinguished Professor	School of Arts and Sciences
Ananda Gunawardena	Teaching Professor	School of Arts and Sciences
Mert Gurbuzbalaban	Associate Professor	Rutgers Business School
Denise Hien	Vice Provost for Research	Office of the Vice Provost for Research
Woojin Jung	Assistant Professor	School of Social Work
Casimir Kulikowski	Board of Governors Professor of Computer Science	School of Arts and Sciences
Alexandra Kunish	Associate professor	Rutgers Business School
Hang Liu	Assistant Professor	School of Engineering
Xiangmin (Helen) Liu	Associate Professor	School of Management and Labor Relations
Dee Magnoni	Associate University Librarian	Rutgers New Brunswick Libraries
Gemma Moran	Incoming Assistant Professor (Fall 2023)	School of Arts and Sciences
Thu D Nguyen	Dean of Mathematical and Physical Sciences	School of Arts and Sciences
Gandalf Nicolas	Assistant Professor	School of Arts and Sciences
Laura Palumbo	Chemistry & Physics Librarian and Science Data Specialist	Rutgers New Brunswick Libraries
David Pennock	Professor and Director	School of Arts and Sciences
Diana Roopchand	Assistant Professor	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Jim Samuel	Associate Professor, Director - Public Informatics	Edward J. Bloustein School of Planning and Public Policy
Melissa Schmidt	Program Development Specialist	Office of the Vice Provost for Research
Charles Senteio	Associate Professor	School of Communication & Information
Vivek Singh	Associate Professor	School of Communication & Information
Arunesh Sinha	Assistant Professor	Rutgers Business School
Matthew Stone	Professor	School of Arts and Sciences
Wade Trappe	Associate Dean for Academic Programs	School of Engineering
Valerie Tutwiler	Provost Leadership Research Faculty Fellow	Office of the Vice Provost for Research
Sangya S. Varma	Associate Dean for Program Development, Mathematical and Physical Sciences	School of Arts and Sciences
Guanyang Wang	Assistant Professor	School of Arts and Sciences
Jin Wang	Associate Professor	Rutgers Business School
Ryan Womack	Data Librarian	Rutgers New Brunswick Libraries
Min Xu	Assistant Professor	School of Arts and Sciences
Sonia Yaco	Digital Initiatives and Emerging Technologies Librarian	Rutgers New Brunswick Libraries
Itzhak Yanovitzky	Professor	School of Communication & Information

Roundtable Discussions

Padlet Data (direct quotes) and Themes

What research are you working on and how are you applying data science? What challenges are you facing in applying fair and responsible data science?

- Computer engineering...focusing on getting things faster, but still worried about bias—like gender bias in ChatGPT.
- Data privacy for data kept on students, especially when they don't know how their data is used.
- How to make data open and available.
- Auditing existing AI algos for bias and create fairer algorithms. Behavioral informatics.
- Research exploring stereotypes (content, sentiment) in language models (e.g., ChatGPT).
- Model interpretability (“opening the black box”) is crucial for FRDS.
- I work on interpretable machine learning, particularly for health care. More specifically, I am interested in representation learning—for large datasets, we often want to learn low dimensional representations or summaries. These representations are often used in downstream tasks. How can we ensure these representations are interpretable? This is important for detecting bias.
- Incentive design for data quality improvement. Main challenge is getting funding for this type of work.
- Data privacy for wireless signals and sending, social influence, polarization and learning, fair clustering and redistricting.

How could collaboration increase the impact of your work? What form of support could help your research succeed?

- Collaboration with experts in various language models, bias detection in language models that would complement my expertise and make papers/grant stronger.
- Many sentiments from causal inference, which is crucial for FRDS, can be defined implicitly as solutions to optimization programs. For example, collaboration with Computer Scientists is very important for the development of efficient algorithmic implementation and statistical inference.

Facilitators, what are the synergies among those at the table as it pertains to FRDS? Are there areas of potential collaborations?

- Our table talked about the major theme of access and promoting diversity across different areas of data science. An additional topic was having access/encouragement/recognition at the depth and university level for the added time and effort building interdisciplinary collaborations takes. Ideas include more seed fundings, departmental support, PhD training programs, and collaboration matchmaking when needed (hard to find the right person when in different school). Concerns around building this research type slow progress, when this leads to important tenure/promotion supporting efforts.
- Discovery from addressing methodological issues that may in turn lead to innovation for stats and the domain area.
- Methodological expertise in implementing large-scale data efforts for impact, including policies for sharing (libraries), incentives for data collections (RBS), mechanisms for federated learning that preserve privacy and independence (OARC). We can work together to plan projects from the beginning to address the overall life-cycle of data science projects!
- A lot of synergies. Network analysis, privacy, fairness among statisticians, computer scientists, social scientists and data management
- Sharing data and lessons learned to enhance data literacy and data science education.

- Developing trans-disciplinary frameworks for the broader impacts of data science research, including engaging stakeholders, shaping policy, and educating the public.
- Challenges around data management particularly in health care. A lot of time and effort goes into cleaning and organizing data and then often times only a small part is used. The proposed solution is central repository within Rutgers sharing data internally, code. Internally GitHub/repository with software engineer to manage.
- Open access of data and privacy and data quality issues. Checking fairness of machine learning algorithms and optimization for application.
- At each table, we discovered ways that we could help each other's work.
- There was interest in follow up activities to further coordinate and intensify interests for research and teaching...internal speaker and discussion events among those interested in FRDS for sharing recent and upcoming work, birds-of-a-feather gatherings among those teaching some aspect of DS to share but also to articulate pathways for those who want to learn, to host introductory event for new faculty in FRDS and DS, build ties with student groups in ds
- Our table discussed how to find Collaborators for specific projects, having informal forum or mailing list to do outreach with potential collaborators; the challenges with access to data (clean and reliable) and eventual validation; bias/perspectives of collectibles objects archive; we found synergies between members at the table who will follow up directly; create pathways for students to have experiential learning oops; Additionally pathways to graduate schools
- Federated learning is one possible approach to sharing knowledge and AI models without worrying about sharing the data.
- Responsible data science requires developing algorithms and computational tools.

What are the most significant barriers to fairness and responsibility with respect to the practice of data science?

- The perspective of who, why and how the data was collected affects the nature of data, beyond bias.
- Tracking August 2022 Nelson Memo and emerging data-sharing mandates, along with open science and open scholarship. Creating connections and partnerships, understanding researcher needs, creating workshops. Communication and getting the word out is the major challenge. Here to create connections, help RU be successful with federal mandates.

Challenges

- Data quality
- Data sharing and translation
- Data access
- Defining data and what to share
- Data security
- Federal mandates and awareness
- Funding mandates and graduate students and publication charges
- IRB process, getting help
 - An example of FRDS: use ML algorithms for identification of subgroups of populations being harmed by a particular treatment. This requires a causal model for reality.
 - Access to DS principles in languages other than English, non-WEIRD countries
 - Subject matter expert vs data expert. Infrastructure needs to include data experts, scientists to work with subject researchers on data science, programming, sharing, et al.
 - Most significant barrier: Access to data—open science, equity, funding
 - A lot of potential collaborations....and challenges. Broad research interests including LLMs, autonomous vehicles, voice assistants, social media data analysis, and privacy. A lot of areas of collaboration including linking large data set analysis to social problems, sharing data publicly and globally while maintaining privacy and accounting for hidden variables—also known as bias.

Appendix H: Research Deans Roundtables

Name	Title	School
Mark A. Aakhus	Associate Dean for Research	School of Communication and Information
Clinton J. Andrews	Associate Dean for Faculty	Edward J. Bloustein School of Planning and Public Policy
Petra Christmann	Vice Dean of Faculty Affairs and Research	Rutgers Business School
Wendie Cohick	Director/ Dean of Research	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Rebecca Cypess	Associate Dean for Academic Affairs	Mason Gross School of The Arts
Robin L. Davis	Vice Dean for Research and Graduate Education	School of Arts and Sciences
Marybeth Gasman	Associate Dean for Research, Faculty Development, and Research Outreach	Graduate School of Education
Mingwei Liu	Associate Dean for Research	School of Management and Labor Relations
Dee Magnoni	Associate University Librarian	Rutgers New Brunswick Library
Andrew Peterson	Associate Dean for Research	School of Social Work
Linda A. Reddy	Associate Dean of Research	Graduate School of Applied and Professional Psychology
Wade K. Trappe	Associate Dean for Academic Programs	School of Engineering
School of Arts & Sciences Divisional Deans		
Robin Leichenko	Dean of Social and Behavioral Sciences	School of Arts and Sciences
Rebecca Walkowitz	Dean of Humanities	School of Arts and Sciences
Thu Nguyen	Dean of Mathematical and Physical Sciences	School of Arts and Sciences
Lori Covey	Dean of Life Sciences	School of Arts and Sciences

Meeting Topics

Date	Topics
13-Sep-22	NIH R01 Writing Academy; PST updates (Climate; CI/DS); Provost Faculty Research Leadership Fellows nominations
11-Oct-22	New Rutgers collaborations indirect policy; tour of Alexander Library; Research Ideation Forum: ML/AI Team abstract call
8-Nov-22	Center/Institute reviews; Leadership retreat debrief; NB/RBHS mixer
13-Dec-22	Diane Ambrose, PhD presentation on Data Management and Sharing Plans; Visiting Scholar collaborations; Center/Institute reviews
14-Feb-23	Research Ideation Forum: Learning & Work; Cost Shares
14-Mar-23	F & A Waivers; Center/Institute Reviews
9-May-23	Center/Institute Reviews; APLU IEP Designation: Innovation and Economic Prosperity Self-Study; New Office for Research Website—faculty feedback
13-Jun-23	Invited to Research Ideation Forum on the Future of Learning & Work
11-Jul-23	APLU Innovation & Economic Prosperity University Designation (Peggy Brennan-Tonetta, PhD, and Amy Mandelbaum); LSA PST update; SAM Registration/New Fringe Rates (Diane Ambrose, PhD, and Lamar Oglesby)

Appendix I: Provost Leadership Research Faculty Fellows

Monthly Scheduled Meetings

January 24, 2023

February 7, 2023

March 7, 2023

March 21, 2023

April 18, 2023

May 2, 2023

May 16, 2023

May 30, 2023

Strategic Initiatives for Provost Leadership Research Faculty Fellows

Andrea Hetling, PhD

Professor

Bloustein School of Planning and Public Policy


Since beginning as a Provost Research Leadership Fellow in January 2023, Andrea has worked primarily on the OVPR strategic initiative related to publicly engaged and community-engaged scholarship (PCES). Andrea is an active member of the Chancellor Provost's task force on the topic. In addition to attending the full meetings, Andrea met individually with task force members and colleagues from across the University to develop a more inclusive definition of PCES. Working closely with both task force members and the OVPR leadership team, Andrea assisted with writing the task force report, which will be completed at the start of FY 24. Andrea also attended Research Dean meetings and other events as her schedule permitted, and she has greatly enjoyed learning about the research enterprise and associated supports across the New Brunswick campus.

Harini Sampath, PhD

Associate Professor

Department of Nutritional Sciences and New Jersey Institute for Food, Nutrition, and Health (IFNH)

Harini began her tenure as a Provost Research Leadership Fellow in January 2023. Her primary focus has been the expansion of access and inclusivity to Undergraduate Research at Rutgers. In this regard, she has been working actively with members of the Undergraduate Research Council to plan and launch the inaugural Rutgers Undergraduate Research Discovery Day, to be held on September 15, 2023, with follow-up events being planned throughout the Fall 2023 Success Week and the following academic year. Harini has benefited greatly from her numerous interactions with the talented undergraduate researchers that she has mentored at Rutgers and hopes to channel some of the lessons learned into generating student awareness of the multitude of research opportunities and avenues available to them during their undergraduate careers at Rutgers. In addition to her efforts surrounding Undergraduate Research, Harini has greatly enjoyed her interactions with her immediate mentors, Vice Provosts Denise Hien and Jean Baum, and getting to know the New Brunswick Research Deans through attendance at their monthly meetings.



Valerie Tutwiler, PhD
Assistant Professor
School of Engineering

Valerie started as a Provost Leadership Research Fellow in January 2022 with the goal of contributing to the promotion of multidisciplinary collaborations at the university level and gaining insights into academic leadership. During this time, she has contributed to a variety of initiatives such as Ideation Forums, Speed Networking events, grant application reviews, and the Provost Strategic Task Force on the Life Science Alliances. Her first objective was helping to bring back Ideation Forums after the COVID-19 pandemic; these events are half-day symposium-style meetings that allow research ideas to be presented, funding opportunities to be identified, and collaborations to be built. Ultimately, they culminate in the submission and review of seed funding proposals. While spearheading the Spring 2022 Ideation Forum on Gun Violence Research, she learned the importance of balancing diverse research perspectives to ensure that the research being highlighted during this event was inclusive and crosscutting. This experience was particularly beneficial as she had the opportunity to work side-by-side with Vice Provost for Research, Denise Hien; this has been an invaluable experience for the development of Valerie's leadership perspective. The planning involved in this Ideation Forum provided the groundwork for two additional forums (Fall 2022 and Spring 2023) with more in the works; she has been involved with the organization of these forums to varying degrees. In Fall 2022, she helped to initiate a Pilot Speed Networking Event in partnership with the School of Engineering, where they organized an hour of roundtable-guided networking followed by an hour of open networking. This event helped highlight the importance of bringing together researchers who might not normally engage as a means of promoting the generation of new ideas. This successful pilot event has been the foundation for other Speed Networking events as well. Currently, Valerie is heavily involved with the development of the Provost Strategic Taskforce on the Life Science Alliances, whose outcomes will provide insights into and new directions for the life sciences landscape at Rutgers University–New Brunswick, strategize critical partnerships, and identify access and infrastructure needs. Working with Vice Provost for Life Sciences Research and Partnerships, Jean Baum, on this taskforce has provided Valerie with the opportunity to gain leadership experience on a large yearlong endeavor while gaining perspective on working across the university to build an inclusive, diverse, and representative taskforce. Collectively, these experiences have demonstrated to Valerie the critical challenges that face academic leadership as they work to ensure that everyone's voice is represented across the university. As a pre-tenure faculty member, this opportunity to work on service at a university level will greatly impact Valerie's career and her ability to support multidisciplinary research across the university. Moreover, the leadership skills and perspective that she has and will gain from working directly with Vice Provosts Hien and Baum are instrumental for her continued growth as a leader and will impact her research career as well.

Appendix J: NIH Academy Inaugural Members

Founding Director

Name	Title	Unit
Sheila Borges Rajguru	Director for Research Development & Strategy	Rutgers—NB Office of the Vice Provost for Research

Faculty Members

Name	Title	School
Yen-Tyng Chen	Assistant Professor	Bloustein
Kimberly Cook-Chennault	Associate Professor	School of Engineering
Meghan A. Deshais	Assistant Professor	Graduate School of Applied and Professional Psychology
Rachel John	Assistant Professor	School of Social Work
Maria Koskan Venetis	Associate Professor	School of Communication & Information
Yang Luy	Assistant Professor	School of Arts and Sciences
Angela Malorni	Assistant Professor	School of Social Work
Kristen E. Riley	Assistant Professor	Graduate School of Applied and Professional Psychology
Kristina M. Scharp	Assistant Professor	School of Communication & Information
Charles R. Senteio	Associate Professor	School of Communication & Information
Igor Shmarakov	Assistant Professor	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Max Tischfield	Assistant Professor	School of Arts and Sciences
Valerie Tutwiler	Assistant Professor	School of Engineering



Photo of Inaugural Faculty at Meet-and-Greet

Research Development Professionals (Staff)

Name	Title	School
Lynn Agre	Associate Director of the RBS Office for Research and Grants Administration	Rutgers Business School
Nathalie Bernard	Business Manager	School of Arts and Sciences
Cecilia Gal	Research Development Specialist	School of Social Work
Anthony Gardner	Director, Finance	School of Arts and Sciences
Elaine Griffin	Manager Compliance & Quality Control	New Jersey Agricultural Experiment Station/School of Environmental and Biological Sciences
Ronnette Henry	Research Project Coordinator	School of Communication & Information
Monika Incze	Grant Facilitator	School of Engineering
Jayshree Mariwala	Business Manager	Graduate School of Applied and Professional Psychology
Attila Medl	Director of Research and Sponsored Programs	School of Arts and Sciences
Olufunke Odukoya	Business Specialist	Edward J. Bloustein School of Planning and Public Policy
Zsofia Pal	Director of Finance & Operations	School of Arts and Sciences
Melissa Schmidt	Program Development Specialist	Office of the Vice Provost for Research
Maria Skidmore	Administrative Coordinator	Chancellor's Office
Lisette Smith	Department Administrator	Graduate School of Applied and Professional Psychology
Karen Wilson	Grant Operations Specialist	Chancellor's Office
Craig Winston	Editor/Writer	School of Communication & Information



Photo of Inaugural Research Development Professionals at Retreat

NIH Preparation Events/Sessions

Date	Event	Theme
14-Apr-23	NIH Meet & Greet	NIH Faculty, Research Development Professionals, School Deans, Research Deans, OVPR, and Chancellor Conway celebrated the first meeting of the inaugural academy members.
7-Jul-23	Research Development Professionals NIH Working Session 1	RDP NIH Academy members convened to work on their weekly curricular plans.
28-Jul-23	Research Development Professionals NIH Working Session 2	RDP NIH Academy members convened to work on their weekly curricular plans.
Aug-23	Research Development Professionals NIH Working Sessions 3 and 4	RDP NIH Academy members to convene at least two times in August to work on their weekly curricular plans.
Fall Course Series		
8-Sept-23	NIH Review Criteria	
15-Sept-23	How do I know which Institute is a good fit for my research agenda?	Overview of NIH. Identifying the right Institute for my work; NIH Reporter
22-Sept-23	Specific Aims Page: Writing Session	Bring your Specific Aims Page draft
29-Sept-23	Specific Aims Page: Writing Session	Specific Aims Page- Swap with an assigned colleague
6-Oct-23	Contacting a Program Officer: Strategies for Success	
13-Oct-23	Research Strategy: Writing Session	How to draft a Research Strategy; Literature Reviews, how to split tasks with collaborators effectively.
20-Oct-23	Research Strategy: Writing Session	How to create the best figures/tables-what software to use?
27-Oct-23	Budget Strategy	RU Budget Template Justification
3-Nov-23	Building Collaborations: Consultants versus Co-Investigators Letters of Support	Participants learn how to write letters of support for their consultants, Co-Is, and other personnel. Scope of work documents.
10-Nov-23	How to organize my application pre-award	Reference software, cloud storage, To Do's table
17-Nov-23	Human Subjects/Clinical Trials Section	
1-Dec-23	Research Strategy: Writing Session	Group work- PIs share their research strategies with each other for input
8-Dec-23	Biosketch	Participants will learn how to create their Biosketches, which are reviewed and scored
15-Dec-23	NIH Data Management and Sharing Policy/Awarded: Next Steps	
TBD	Trip to NIH to meet with Program Officers	Hosts: Jack Goodman & Libby O'Hare; Lewis-Burke Associates

Appendix K: Chancellor Challenge Awards

Cyberinfrastructure and AI for Science and Society (CASS)*

**Formerly known as Cyberinfrastructure for AI for Science & Engineering (CASE)*

Shantenu Jha; Professor of Computer Engineering, School of Engineering

Alyson Brooks, Associate Professor of Physics and Astronomy, School of Arts and Sciences

Notice Nature: An Art-Science Collaboration in Support of Student Wellness

Rebecca Cypess, Associate Dean for Academic Affairs and Associate Professor of Music, Mason Gross School of the Arts

Mary Nucci, Assistant Dean for Campus Engagement and Assistant Research Professor, School of Environmental and Biological Sciences

Planning for a Future Full-Feature Net-Zero Wind Energy Test (WET) Center

Onur Bilgen, Associate Professor of Mechanical and Aerospace Engineering, School of Engineering

Josh Kohut, Co-founder of the Center for Ocean Observing Leadership and Professor of Marine Science, School of Environmental and Biological Sciences

Transforming Climate Change Scholarship at Rutgers–New Brunswick

Julie Lockwood; Interim Director of the Rutgers Institute of Earth, Ocean, and Atmospheric Sciences and Professor of Ecology, Evolution, and Natural Resources; School of Environmental and Biological Sciences

Robin Leichenko, Associate Dean of Social and Behavioral Sciences and Professor of Geography, School of Arts and Sciences

Appendix L: Events (in-person)

Summary

Date	Event	CLU	# people	# of Schools/departments
22-Sep-22	Speed Networking: SOE	NB/OfR	51	8 departments
28-Oct-22	Research Deans Retreat	NB/OfR	19	11 NB Schools
18-Nov-22	NB/RBHS Mixer	NB/RBHS/OfR	31	21 NB/10 RBHS
21-Nov-22	Research Ideation Forum: ML/AI	NB/RBHS/Newark/OfR	81	6 NB Schools
11-Apr-23	Champions Meeting: Life Sciences Alliance	NB	27	13 NB schools/institutes
14-Apr-23	NIH Meet and Greet	NB	54	8 schools/departments
2-May-23	Speed Networking: Fair and Responsible DS	NB	50	10 NB schools/departments
9-May-23	Research Development Retreat	NB	20	8 schools/departments
18-May-23	Executive Steering Committee Meeting for LSA	NB	9	6 schools/departments
13-Jun-23	Research Ideation Forum: Future of Learning & Work	NB/RBHS/Newark/OfR	70	28 schools/departments/community members

Events Invited Speakers

Speaker	Event(s)	Topic
Romayne Botti, MBA, Vice Chancellor for Finance	Research Deans Retreat, October 28, 2022	Responsibility Center Management (RCM) Budget Model
Ralph Gigliotti, PhD, Assistant Vice President for Strategic Programs, Office of University Strategy and Director, Rutgers Center for Organizational Leadership	Research Deans Retreat, October 28, 2022	Higher Education Leadership
Hila Berger, MPH, CHC, CIP, Assistant Vice President, Research Regulatory Affairs	Research Deans Retreat, October 11, 2022	New eCOI+ System
	Research Deans Meeting, October 28, 2022	Responsible Conduct Research
Christine Goldthwaite, PhD, Associate Director, Rutgers Center for Organizational Leadership	Research Deans Retreat, October 28, 2022	What does the literature say? Best practices for Interdisciplinary Research
	Research Development Retreat, May 9, 2023	Communication Fundamentals—Productive Conversations to Get Things Done
Diane Ambrose, PhD, Executive Director & Letitia Dean, MPA, CRA, Assistant Director	Research Deans Meeting, December 13, 2022	NIH's requirements for Data Management and Sharing Plans
Margaret Swarbrick, PhD, Associate Director, Center of Alcohol & Substance Use Studies Research Professor, Graduate School of Applied and Professional Psychology	Research Development Retreat, May 9, 2023	Self-Care Practices & Strategies

Susan Gould Fogerite, PhD, MT, CYT, Professor Emeritus, Clinical Laboratory and Medical Imaging Sciences and Physician Assistant Studies and Practice, School of Health Professions	Research Development Retreat, May 9, 2023	Self-Care Practices & Strategies
Laura Palumbo, Chemistry & Physics Librarian and Science Data Specialist, RU-NB Libraries	Research Development Retreat, May 9, 2023	NIH Data Management and Sharing Policy (DMSP)
Anthony Gardner, MBA, CRA, Director of Finance & Budget Planning, SAS	Research Development Retreat, May 9, 2023	RCM Budget Model
Dee Magnoni Associate University Librarian, Rutgers University-New Brunswick New Brunswick Libraries	Research Ideation Forum on the Future of Learning & Work, June 13, 2023	Moderator
James Abello Monedero, PhD Associate Professor Department of Computer Science School of Arts and Sciences	Research Ideation Forum on ML/AI, November 21, 2022	Moderator
Ruobin Gong, PhD Assistant Professor Department of Statistics School of Arts and Sciences	Research Ideation Forum on ML/AI, November 21, 2022	Moderator
Sarah Shugars, PhD Assistant Professor Department of Communication School of Communications and Information	Research Ideation Forum on ML/AI, November 21, 2022	Moderator
Marybeth Gassman, PhD Samuel DeWitt Proctor Endowed Chair in Education University Distinguished Professor Associate Dean for Research, Rutgers Graduate School of Education Chair, Rutgers University-New Brunswick Faculty Council	Research Ideation Forum on the Future of Learning & Work, June 13, 2023	Today's College Students and How Faculty Can Support Them
Rebecca Cypess, PhD Associate Dean for Academic Affairs Associate Professor Mason Gross School of the Arts	Research Ideation Forum on the Future of Learning & Work, June 13, 2023	Fostering College Students' Sense of Wonder Through the Arts
Douglas Kruse, PhD Distinguish Professor Institute for the Study of Employee Ownership and Profit Sharing School of Management and Labor Relations	Research Ideation Forum on the Future of Learning & Work, June 13, 2023	Disability Research: A Multidisciplinary Perspective
Jack Goodman Senior Associate Lewis-Burke Associates, LLC	Research Ideation Forum on ML/AI, November 21, 2022	AI/ML Research Federal Funding Landscape
	Research Ideation Forum on the Future of Learning & Work, June 13, 2023	Future of Learning & Work Federal Funding Landscape



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