

Interdisciplinary research in the sciences and beyond

Benedetto Piccoli, Rutgers University Camden





The CCIB at Rutgers-Camden

- CCIB was established in 2007 by the Faculty of Arts and Science at Rutgers
 University Camden and specifically by Math and Sciences Departments
 (Biology, Chemistry, Computer Science, Mathematical Sciences and Physics).
- The Graduate Program in Computational and Integrative Biology was initiated in Fall 2010 with three PhD students.
- CCIB was **positively evaluated** in 2013 by Prof. Warren Ewens of UPenn to pass to **Phase 2** (additional 6 lines and 9 TAships were asked for).
- May 2014, Matthew Niepielko graduated as the first PhD student.
- Currently: 25 PhD students, 6 Masters, 19 Alumni (FDA, Princeton, other).
 Research funds for 11M+ (since '10), 60% externally funded student.



CCIB governing structure

Director Program Director



Executive Committee (5 members from Departments)



Admission Committee to PhD
Hiring Committee
Curriculum Committee
Cluster Committee
Center Grants Committee
Best Student's paper Committee



CCIB: Promoting participation

- Research collaborative fellowships (see funding), res. lunches.
- Best students paper award, CCIB Honorary award.
- CCIB seminar, annual retreat and full member assembly.
- CCIB students. Gender: 14 Female, 17 Male. Nationality: 17 US, 14 non-US. Department affiliation of Primary Advisor: Biology 12, Chemistry 6, Computer Science 4, Mathematics 3, Physics 6.
- Faculty members: Biology 12/12 (100%), Chemistry 5/7 (71%), Computer Science 7/9 (77%) Mathematics 6/12 (50%), Physics 4/4 (100%).



Research office at RUC

- Strategic Direction 1: Providing a First-rate Undergraduate
 Education Grounded in Research and Providing Experiential
 Learning
- Strategic Direction 2: Enhancing High-quality and Interdisciplinary
 Graduate and Professional Programs
- Strategic Direction 3: Advancing Faculty Research Excellence

Schools
Research Centers
(CCIB, CURE, CLC, Rand)

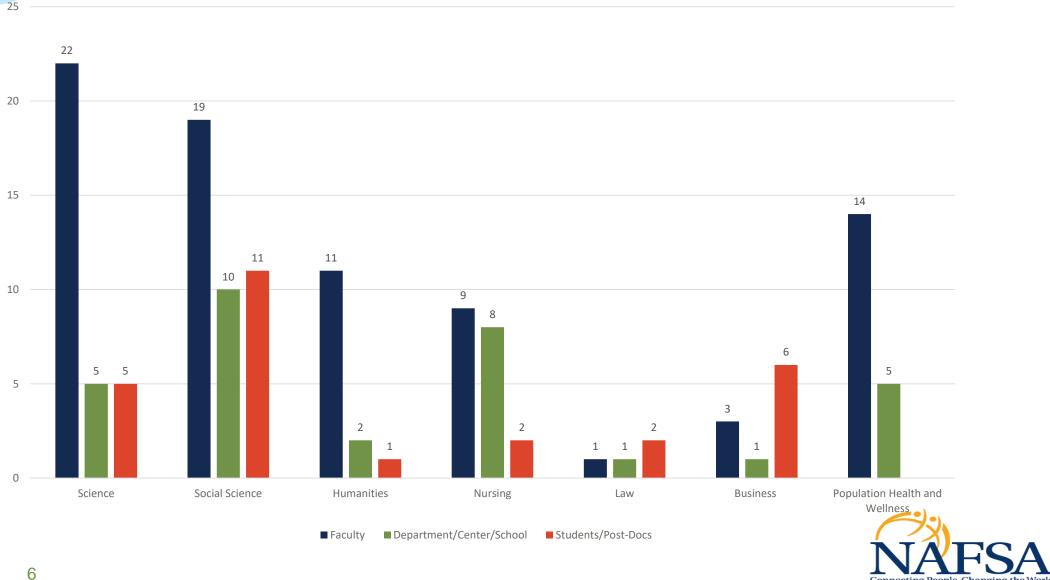
Research
Office

Development
(Foundations,
Donors)

Student Affairs and
Civic Engagement

Research office at RUC

Targeted Funding Opportunities (119)



Provost fund for reserach

Cross-Disciplinary Program- \$15,000 award limit

Debashis Kushary (associate professor, FASC-mathematics)

Co-PI(s):

Title:

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PI:
                   Dr. Nir Yakoby (associate professor, FASC-biology and
director, Center for Computational and Integrative Biology)
               Dr. Andrey Grigoriev (professor, FASC-biology) and Dr. Sunil
Co-PI(s):
Shende (associate professor, FASC-computer science)
Title:
                    An Interdisciplinary Approach to Study the Development of
Epithelial Cells by tRFs
                    Dr. John Wall (professor, FASC-religion and acting
PI:
associate dean of The Graduate School)
               Dr. Sarada Balagopalan (associate professor, FASC-childhood
Co-PI(s):
studies), Dr. Carla Giaudrone (associate professor, FASC-Spanish), Dr. M.A.
Rafey Habib (professor, FASC-English), Dr. Jean-Louis Hippolyte (associate
professor, FASC-French), and Dr. Harry Rhea (assistant professor, FASC criminal
justice)
Title:
                    Exploring Interdisciplinary Global Studies
PI:
                    Dr. Richard Harris (professor, FASC-political
science)
                 Prof. John Oberdiek (professor, RLAW)
Co-PI(s):
Title:
                    Our Dangerous Delusion: Moral Groupthink in Policy Making
PI:
                    Dr. Bonnie Jerome-D'Emilia (associate professor, SNC)
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Dr. Patricia Suplee (associate professor, SNC) and Dr.

Insurance Status and Breast Cancer in New Jersey



Facilitated Small Group Discussions

Applying new paradigms to your curriculum

NAFSA2018

MAY 27-JUNE 1 • PHILADELPHIA, PA USA

Diverse Voices

(Part I)



- GOOTB (Get Out of the Building) approach vs. interdisciplinary collaborations what makes the most sense for your program(s)?
- How can you promote diversity at all levels in interdisciplinary initiatives?
- O How can you guarantee students' success in an academic world still functioning with disciplinary barriers?

