

RESEARCH PATHWAYS

BIOLOGY

Undergraduate research is a cornerstone of our mission at Rutgers–Camden. Our goal is to provide as much support as possible for you to have a successful research experience.

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Need funding for a research project or conference travel experience?



We encourage you to visit go.rutgers.edu/ug-grants to see what funding opportunities are available. Currently, you can receive up to \$500.00 to offset research expenses and conference travel expenses.

Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking biology majors. Current projects listed on the hub include:

» "Large-scale genome analysis," with Dr. Andrey Grigoriev (agrigoriev@camden.rutgers.edu)

Unsure if you are research-ready?

Curricular Research Training Plan: take 50:120:199 Exploring Careers in Biology (Research Shadowing) and then the 17-credit course plan laid out in **Section B** of the course plan sheet (available at biology.camden.rutgers.edu).

Who are the faculty? What do they research? What are their interests?

- » Dr. Brian Corbett (brian.corbett@rutgers.edu): Stress Neuroscience; Systems Neuroscience; Epigenetics
- » Dr. Nathan Fried (nathan.fried@rutgers.edu): Neuroscience; Pain; Migraine; Opioid Epidemic; Biology Education Research
- » Dr. Anthony Geneva (anothony.geneva@rutgers.edu): Evolutionary Genomics; Adaptation; Speciation
- » Dr. Angélica González (angelica.gonzalez@rutgers.edu): Biodiversity; Ecological Stoichiometry; Functional Biogeography; Food Webs; Paleocology; Environmental Change
- » Dr. Andrey Grigoriev (agrigoriev@camden.rutgers.edu): Genome Organization; Evolution and Manifestation; Cancer
- » Dr. Eric Klein (eric.a.klein@rutgers.edu): Bacterial Pathogenesis and Cell Shape
- » Dr. Kwangwon Lee (kwang1@camden.rutgers.edu): Circadian Clock/ Light Regulation; Fungal Genetics; Fungal Ecology; Systems Biology
- » Dr. Jennifer Oberle (joberle@camden.rutgers.edu): Fungal and Microbial Biology; Trends in Evolutionary Ecology; Invertebrate Zoology
- » Ms. Tracie Paulson (traciep@camden.rutgers.edu): Biology Education
- » Dr. Xingyun Qi (xingyun.qi@rutgers.edu): Stomatal Development; Abiotic Stress; Plant Cell Biology
- » Ms. Charlene Sayers (cwsayers@camden.rutgers.edu): Anatomy and Physiology
- » Dr. Amy Savage (amy.savage@rutgers.edu): Consequences of Species Interactions; Urban Ecology; Resilience of Ecological Communities
- » Dr. Daniel Shain (dshain@camden.rutgers.edu): Annelid Development and Evolution
- » Dr. Maria Solesio Torregrosa (m.solesio@rutgers.edu): Mitochondrial Physiology and Dysfunction in Aging and Neurodegeneration
- » Dr. Nir Yakoby (yakoby@camden.rutgers.edu): Developmental Genetics; Evolution of Morphologies; Cell Signaling; Tissue Patterning

RESEARCH PATHWAYS

CHEMISTRY

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Looking for a research project?



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Unsure if you are research-ready?

Contact Dr. Alex Roche, Undergraduate Program Coordinator, (alroche@camden.rutgers.edu) with questions about research, degree requirements, registration deadlines, etc.

chemistry.camden.rutgers.edu

Who are the faculty? What do they research? What are their interests?

- » Dr. Georgia Arbuckle-Keil (arbuckle@camden.rutgers.edu): Polymer Characterization; Microplastics; Art Conservation; Vibrational (Infra-red and Raman) micro-spectroscopy; Thermal Analysis
- » Ms. Bailey Blessing (bailey.blessing@rutgers.edu): Chemistry Education; Organic Undergraduate Laboratory; Chemistry Laboratory Management
- » Dr. Michelle Carlin (michelle.g.carlin@rutgers.edu): Forensic Toxicology; Paint Analysis; Forensic Drug Chemistry; Mass Spectrometry; Spectroscopy; Microscopy
- » Dr. Jinglin Fu (jinglin.fu@rutgers.edu): Biomimetic Nanosystems; Bionanotechnology; Nucleic Acids Technology; Nanomedicine Delivery; Biosensing; Enzymology; HPLC/MALDI-TOF/AFM
- » Dr. Catherine Grgicak (c.grgicak@rutgers.edu): Bioanalytical Chemistry; Forensic DNA; Single-Cell Analysis; NGS; Capillary Electrophoresis; qPCR; Digital PCR
- » Dr. George Kumi (george.kumi@rutgers.edu): Chemistry Education; Microfluids; Biomineralization; Microfabrication
- » Dr. Guillaume Lamoureux (guillaume.lamoureux@rutgers.edu): Molecular Modeling and Recognition; Enzyme Catalysis; Membrane Transport Computational Biophysics; Machine Learning
- » Dr. Santanu Malakar (sm1792@rutgers.edu): Catalysis; Organometallic Chemistry; Small Molecule Activation; Catalyst Design; Computational Chemistry; Mechanistic Studies; Kinetics; Electrochemistry; Electrocatalysis
- » Dr. Alex Roche (alroche@camden.rutgers.edu): Design, Synthesis, and Characterization of Novel Fluorocarbons, NMR, HPCLC/MS, GC/MS
- » Dr. David Salas-de la Cruz (david.salas@rutgers.edu): Biomaterials; Ionic Liquids; Morphology; X-Ray Scattering; Biobatteries; Scaffolds; Filtration Membranes
- » Dr. KJ Winchell (kj.winchell@rutgers.edu): Chemistry Education; General, Organic, and Biochemistry; Polymers
- » Dr. Youwen (Warren) Zhang (youwen.zhang@rutgers.edu): Molecular Diagnostics; Chiral Nanomaterials; Drug Delivery

RESEARCH PATHWAYS

CHILDHOOD STUDIES

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit **go.rutgers.edu/curca-hub** to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, the Department of Childhood Studies seeks interns

funded by the **Mellon Foundation Grant**, in which students partner with community organizations who work with youth in the region.

Unsure if you are research-ready?

To be research-ready, it is recommended childhood studies majors take at least one of the following courses: 50:163:320 History of Youth, 50:163:350 Kids' Media Cultures, 50:163:372 Ethnographies of Childhood, 50:163:382 Urban Education, or 50:163:460 Understanding Childhood through Statistics.

Who are the faculty? What do they research? What are their interests?

- » Dr. Meredith Bak (meredith.bak@rutgers.edu): Historical and contemporary children's toys, film, and media
- » Dr. Sarada Balagopalan (sarada.balagopalan@rutgers.edu): Postcolonial childhoods, particularly marginalized children's experiences with compulsory schooling, labor, gendered school-spaces, children's rights discourses, and pedagogies of 'citizenship'
- » Dr. Valerie Bass (valerie.adamsbass@rutgers.edu): Exposure to media and how it influences interpersonal interactions and self-concept; Racial/ethnic socialization experiences and racial identity's relationship to the process of identity development, and the social and academic experiences of Black children and youth
- » Dr. Kate Cairns (kate.cairns@rutgers.edu): Politics of childhood and how young people are positioned as the promise or threat of collective futures
- » Dr. Daniel Cook (dtcook@camden.rutgers.edu): Moral configurations of childhood and the child vis-à-vis commercial and economic cultural fields
- » Dr. Naomi Fair (naomi.fair@rutgers.edu): Childhood and critical disability studies
- » Dr. Marilisa Jiménez García (marilisa.jimenez@rutgers.edu): US literature and Empire studies, Latinx literature, theatre, and television, Scholarly inquiry of children's and YA literature and media, AfroLatinx youth literature, Caribbean narratives of youth and subjectivity, digital humanities and activism, Ethnic Studies movements and methodologies, dynamics of race and empire in US, race and canon formation, curriculum and race equity
- » Dr. Susan Miller (millersa@camden.rutgers.edu): Children's patriotism and nationalism in the late 19th and early 20th centuries
- » Dr. Lauren Silver (ljsilver@camden.rutgers.edu): The lives of young people who experience gendered and state violence
- » Dr. Anthony Wright (anthony.wright@rutgers.edu): Social inequalities and the institutional arrangements that produce and sustain them shape how young people inhabit situations of illness and violence



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childhood.camden.rutgers.edu

RESEARCH PATHWAYS

COMPUTER SCIENCE

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit **go.rutgers.edu/curca-hub** to view by subject area and keyword the different research projects seeking computer science majors. Current projects listed on the hub include:

- » "Distributed Computing and Evolutionary Games," with Dr. Sunil Shende (shende@camden.rutgers.edu)
- » "Large-scale genome analysis," with Dr. Andrey Grigoriev (agrigoriev@camden.rutgers.edu)
- » "Computational materials for energy and sustainability" with Dr. Hong Fang (hong.fang@rutgers.edu)

cs.camden.rutgers.edu



Unsure if you are research-ready?

To be research-ready, computer science majors should take the following courses: 50:198:111 Programming Fundamentals, 50:198:171 Mathematical Foundations of Computer Science, 50:198:113 Object-Oriented Programming, and 50:198:213 Data Structures.

Who are the faculty? What do they research? What are their interests?

- » Dr. Iman Dehzangi (i.dehzangi@rutgers.edu): Machine learning, deep learning, artificial intelligence, bioinformatics, computational biology
- » Dr. Rajiv Gandhi (rajivg@camden.rutgers.edu): Approximation algorithms, randomized algorithms, computational geometry
- » Dr. Sheikh Islam (sheikh.islam@rutgers.edu): Explainable and fair artificial intelligence for cybersecurity, social good, health informatics
- » Dr. Guy Kortsarz (guyk@camden.rutgers.edu): Approximation algorithms, randomized algorithms
- » Dr. Desmond Lun (dslun@rutgers.edu): Computational biology
- » Dr. Michael Palis (palis@camden.rutgers.edu): High-performance computing, parallel programming environments, parallel and distributed algorithms
- » Dr. Suneeta Ramaswami (rsuneeta@camden.rutgers.edu): Computational geometry and applications, mesh generation, computational statistics
- » Dr. Sunil Shende (shende@camden.rutgers.edu): Online algorithms, combinatorial optimization, big data algorithms



RESEARCH PATHWAYS

DIGITAL STUDIES



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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers. Current projects listed on the hub that are geared toward digital studies

students include:

» “Well-Played Videogame Research Group,” with Dr. Jim Brown (jim.brown@rutgers.edu)

Unsure if you are research-ready?

To be research-ready, digital studies majors should take the following courses: 50:209:200 Digital Research Methods, 50:209:210 Multimedia Thinking, and 50:209:230 Creative Coding

Who are the faculty? What do they research? What are their interests?

- » Dr. Jim Brown (jim.brown@rutgers.edu): Ethical and rhetorical dimensions of new media technologies
- » Dr. Anthony Wright (anthony.wright@rutgers.edu): How digital technologies shape young people’s attempts to transform conditions of illness and injustice

digitalstudies.camden.rutgers.edu



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College of Arts and Sciences

RESEARCH PATHWAYS

ECONOMICS

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Looking for a research project?



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Unsure if you are research-ready?

To be research-ready, it is **required** that economics majors take the following courses: 50:220: 203 Intermediate Economic Theory (Microeconomics), 50:220:203 Intermediate Economic Theory (Macroeconomics), 50:220:222 Foundations of Econometrics, and 50:220:322 Econometrics. The following courses are **recommended** for students wishing to pursue research: 50:220:122 Introduction to Data Science, 50:220:318 Cost Benefit/Effective Analysis, 50:220:392 Business Cycles and Forecasting, and 50:220:422 Applied Data Mining.

Who are the faculty? What do they research? What are their interests?

- » [Dr. Selim Cakmakli](mailto:selim.cakmakli@rutgers.edu) (selim.cakmakli@rutgers.edu): History of macroeconomic thought, business cycles and structural breaks, monetary policy, and economic geography
- » [Dr. I-Ming Chiu](mailto:ichiu@camden.rutgers.edu) (ichiu@camden.rutgers.edu): International finance, health economics, financial economics, economic development
- » [Dr. Noha Emara](mailto:nemara@camden.rutgers.edu) (nemara@camden.rutgers.edu): Applied econometrics, economic development, macroeconomic policy
- » [Dr. Osama Hamed](mailto:hamed@camden.rutgers.edu) (hamed@camden.rutgers.edu): Money supply estimation, foreign exchange risk, and other challenges experienced by countries without national currencies; economic efficiency and economic equality under economic systems with public ownership of the means of production
- » [Dr. Jinpeng Ma](mailto:jinpeng@rutgers.edu) (jinpeng@rutgers.edu): Intermediate and principles of macroeconomics, game theory, industrial economics
- » [Dr. John Smith](mailto:smithj@camden.rutgers.edu) (smithj@camden.rutgers.edu): Relationship between stochastic choice and imperfect perception and scrutinizing claims of learning that do not analyze observations across trials
- » [Dr. Tetsuji Yamada](mailto:tyamada@rutgers.edu) (tyamada@rutgers.edu): Health economics, government healthcare policy and health marketing

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RESEARCH PATHWAYS

ENGLISH AND COMMUNICATION

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit **go.rutgers.edu/curca-hub** to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, the Department of English and Communication is

seeking student researchers for:

» "Saved but Enslaved: Hannah Hovey, Briton Hammon, and the Earliest Black and Indigenous Members of Plymouth's First Church, 1708-1783," led by Dr. Keith Green (keigreen@camden.rutgers.edu)

Who are the faculty? What do they research? What are their interests?

» Dr. Jim Brown (jim.brown@rutgers.edu): Ethical and rhetorical dimensions of new media technologies
» Dr. Tyler Hoffman (thoffman@camden.rutgers.edu): American poetry and contemporary American performance poetry

- » Dr. Holly Blackford Humes (blackfor@camden.rutgers.edu): Literary criticism on American and children's literature
- » Mr. Travis DuBose (travis.dubose@rutgers.edu): Scholarship of teaching and learning, focused on issues of civic engagement and digital capital
- » Dr. Richard Epstein (repstein@camden.rutgers.edu): Semantics, pragmatics, and discourse structures of English, medieval French, and the Native American language Tipay; the use of the definite article in some of the earliest Old English texts; the use of language in current discussions of environmental issues
- » Dr. Shanyn Fiske (fiske@camden.rutgers.edu): Victorian literature and culture and the history of classical reception in 19th-century England
- » Dr. Christopher Fitter (fitter@camden.rutgers.edu): Shakespeare, particularly the plays in terms of their political historicity and of their concern with issues related to social class
- » Dr. William FitzGerald (wfitz@camden.rutgers.edu): Rhetoric and writing studies, with particular interest in the rhetoric of religion
- » Dr. Ashley Gimbal (ag1588@camden.rutgers.edu): Media framing, terrorism, audience effects, and how these elements alter the way news is created and shared
- » Dr. Keith Green (keigreen@camden.rutgers.edu): Centering people of African descent in speculative fiction, captivity narratives, disability studies, and multilingualism
- » Ms. Lauren Grodstein (lgrodste@camden.rutgers.edu): Fiction Writing, Memoir
- » Dr. Rafeef Habib (mhabib@camden.rutgers.edu): Islamic philosophy and literature, Post-Colonial studies, World literature
- » Dr. Ophelia Eryn Hostetter (akh58@camden.rutgers.edu): Medieval English literature and culture
- » Dr. Ellen Malenas Ledoux (eledoux@camden.rutgers.edu): Transatlantic literature of the 18th century
- » Mr. Paul Lisicky (paul.lisicky@rutgers.edu): Fiction Writing, Memoir
- » Dr. Howard Marchitello (marchitello@camden.rutgers.edu): Shakespeare; Early Modern Literature and Science
- » Mr. Tom McAllister (tom.mcallister@rutgers.edu): Fiction, Creative Non-Fiction
- » Dr. Allison Page (allison.page@rutgers.edu): Race, feminist media studies, digital media, media activism, and critical theory
- » Mr. Patrick Rosal (patrick.rosal@rutgers.edu): Poetry
- » Dr. Jillian Sayre (jillian.sayre@rutgers.edu): Narrative theory, affect, and community in early national American literature <http://www.paulisicky.net/>
- » Ms. Lisa Zeidner (zeidner@camden.rutgers.edu): Fiction, Poetry, Screenwriting

RESEARCH PATHWAYS

GENDER STUDIES

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Looking for a research project?



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Who are the faculty? What do they research? What are their interests?

- » Dr. Gail Caputo (gcaputo@rutgers.edu): Social issues related to criminology and public policy, particularly women in conflict with the law
- » Dr. Joan Maya Mazelis (mazelis@camden.rutgers.edu): The study of urban poverty and social ties, using qualitative interview methods to explore the meaning and understanding people have of their own situations
- » Dr. Shauna Shames (shauna.shames@rutgers.edu): American political behavior, with a focus on race, gender, and politics
- » Dr. Lee Ann Westman (lew80@camden.rutgers.edu): Mary Jane Holmes, a 19th-century American woman writer of domestic fiction

genderstudies.camden.rutgers.edu



RESEARCH PATHWAYS

HEALTH SCIENCES

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, the Department of Health Sciences is looking for

undergraduate researchers for the following projects:

- » "Relationships, Health, and Aging Lab," led by Dr. Kristin August (kristin.august@rutgers.edu); and
- » "Health Development Lab," led by Dr. Charlotte Markey (chmarkey@camden.rutgers.edu)

Unsure if you are research-ready?

To be research-ready, it is **required** that health sciences majors take the 50:830:255 Method and Theory in Psychology OR 50:830:256 Research Methods, 50:960:183 Elementary and Applied Statistics OR 50:830:250 Statistics for Social Sciences. It is also **highly recommended** that students enroll in an independent study or a capstone course that provides the option of working on independent research.

Who are the faculty? What do they research? What are their interests?

- » Dr. Kristin August (kristin.august@rutgers.edu): Interpersonal processes and health; physical and mental health in later life; psychosocial aspects of chronic disease management; health disparities
- » Dr. Sujoy Chakravarty (sujoy@rutgers.edu): Health Economics; Healthcare Delivery and Financing; Racial and Ethnic Disparities in Care; Medicaid Policy and Evaluation; Industrial Organization of Healthcare Markets
- » Dr. Lauren Daniel (lauren.daniel@rutgers.edu): Impact of sleep on health and quality of life in children with chronic health conditions; pediatric psychosocial oncology; behavioral sleep medicine
- » Dr. Jamie Dunaev (jamie.dunaev@rutgers.edu): Stigma, Prejudice, and Health
- » Dr. Nathan Link (nathan.link@rutgers.edu): Mental and physical health among criminal justice-involved populations
- » Dr. Charlotte Markey (chmarkey@camden.rutgers.edu): Social influences on eating-related behaviors (i.e., eating, dieting, body image); media influences and romantic partners' roles in eating-related behaviors
- » Dr. Daniel Semenza (daniel.semenza@rutgers.edu): Causes and consequences of gun violence; community health disparities; criminal justice exposure and health

healthsciences.camden.rutgers.edu



RUTGERS-CAMDEN
College of Arts and Sciences

RESEARCH PATHWAYS

HISTORY

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Looking for a research project?



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Unsure if you are research-ready?

To be research-ready, it is **required** that history majors take 50:509:299 Perspectives on History. The following courses are **recommended** for students wishing to pursue research: 50:509:101 History 101: What is History? (classroom-based), 50:509:475 Undergraduate Internship (experiential course), and 50:509:499 Undergraduate Independent Study (experiential course).

history.camden.rutgers.edu



RUTGERS–CAMDEN
College of Arts and Sciences

Who are the faculty? What do they research? What are their interests?

- » Dr. Kendra Boyd (kendra.boyd@rutgers.edu): African-America history; US business and economics history; urban history; 20th-century US history
- » Dr. Katherine Epstein (kce17@camden.rutgers.edu): Military history; international relations; late 19th to early 20th-century American history
- » Dr. Carly Goodman (carly.goodman@rutgers.edu): Public history; immigration; citizenship
- » Dr. Evan Jewell (evan.jewell@rutgers.edu): Ancient Mediterranean history; youth and age in the Roman world; gender history; history of ancient colonization, slavery, migration, and displacement; Roman urban history and topography; Roman material culture and archaeology; memory studies; digital history
- » Dr. Nick Kapur (nick.kapur@rutgers.edu): East Asian history; Japan; China; global/transnational history; environmental history
- » Dr. Emily Marker (emily.marker@rutgers.edu): Modern Europe; France and Francophone Africa; empire; race; religion; youth
- » Dr. Susan Mokhberi (s.mokhberi@rutgers.edu): Early modern European diplomatic and cultural history; encounters between East and West
- » Dr. Andrew Shankman (shankman@rutgers.edu): Colonial British North America; Revolutionary and early national US; early modern England
- » Dr. Lorrin Thomas (lthomas2@camden.rutgers.edu): Latin American history; US immigration and urban history; citizenship and human rights
- » Dr. Wendy Woloson (ww207@camden.rutgers.edu): American popular culture; public history; US economic history



RESEARCH PATHWAYS

LIBERAL STUDIES

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Looking for a research project?



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Unsure if you are research-ready?

To be research-ready, it is required that liberal studies majors take the following courses:

- » 50:606:301 Mastering Liberal Studies I
- » 50:606:302 Mastering Liberal Studies II



RUTGERS-CAMDEN
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RESEARCH PATHWAYS

MATHEMATICAL SCIENCES

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, faculty are seeking mathematical sciences majors for the

project:

» "Drones for crowd and traffic surveillance," with Dr. Benedetto Piccoli (piccoli@camden.rutgers.edu).

Unsure if you are research-ready?

To be research-ready, it is required that mathematical sciences majors take the following course: 50:640:121 Calculus I, 50:640:122 Calculus II, 50:640:221 Calculus III, 50:640:250 Linear Algebra OR 50:640:253 Linear Algebra with Applications, and 50:640:314 Elementary Differential Equations.

Who are the faculty? What do they research? What are their interests?

- » Dr. Nawaf Bou-Rabee (nb361@camden.rutgers.edu): Applied Mathematics and Probability
- » Dr. Siqi Fu (sfu@camden.rutgers.edu): Geometric analysis in several complex variables; spectral theory of partial differential operators
- » Dr. Haydee Herrera-Guzman (haydeeh@camden.rutgers.edu): Differential Geometry
- » Dr. Debashis Kushary (kushary@camden.rutgers.edu): Statistics
- » Dr. Will Y.K. Lee (wylee@camden.rutgers.edu): Number Theory
- » Dr. Benedetto Piccoli (piccoli@camden.rutgers.edu): Systems biology and traffic modeling
- » Dr. Longmei Shu (longmei.shu@rutgers.edu): Evolutionary game theory; mathematical biology; isospectral transformations of multidimensional systems and networks
- » Dr. Gabor Toth (gtoth@camden.rutgers.edu): Differential geometry and convex geometry

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RUTGERS–CAMDEN
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RESEARCH PATHWAYS

PHILOSOPHY AND RELIGION

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Looking for a research project?



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Unsure if you are research-ready?

To be research-ready, it is recommended that **philosophy** majors take the following courses: 50:730:101 Introduction to Logic, Reason, and Persuasion, 50:730:111 Introduction to Philosophy, 50:730:201 Symbolic Logic. To be research-ready, it is recommended that **religion** majors take 50:840:101 Introduction to Religious Studies and 50:840:103 Introduction to World Religions.

Who are the faculty? What do they research? What are their interests?

- » Dr. Craig Agule (craig.agule@rutgers.edu): Philosophy of Law; Criminal Law; Medical and Engineering Ethics; Logic
- » Dr. Margaret Betz (margbetz@camden.rutgers.edu): Applied Ethics; Social and Political Philosophy; History of Philosophy; Feminist Theory; Hannah Arendt; Animal Ethics; Environmental Ethics
- » Dr. Stuart Charmé (scharme@camden.rutgers.edu): Psychology of Religion; Religious and Ethnic Identity; Gender and Religion; Contemporary Jewish Life
- » Dr. Nicole Karapanagiotis (nicole.karapanagiotis@rutgers.edu): South Asian Religions; Religion and Marketing; Digital Religion; Religious Studies Pedagogy
- » Dr. John Wall (johnwall@camden.rutgers.edu): Ethical Theory; Ethics and Poetics; Religious Ethics; Philosophy of Religion; Continental Philosophy; Post-Structuralism; Childhood Studies; Children's Rights

philosophyandreligion.camden.rutgers.edu



RUTGERS–CAMDEN
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RESEARCH PATHWAYS

PHYSICS

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Need funding for a research project or conference travel experience?



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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit **go.rutgers.edu/curca-hub** to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, the Department of Physics is looking for undergraduate researchers for the following project:

» “Computational materials for energy and sustainability,” led by Dr. Hong Fang (hong.fang@rutgers.edu)

Unsure if you are research-ready?

To be research-ready, it is required that physics majors take the following courses:

- » 50:750:491 Research in Physics I
- » 50:750:492 Research in Physics II

Who are the faculty? What do they research? What are their interests?

- » Dr. Grace Brannigan (grace.brannigan@rutgers.edu): Computational biophysics, particularly dynamics of ion channels and other signaling proteins, as well as free energies of ligand-protein interactions
- » Dr. Hong Fang ([hf267@camden.rutgers.edu](mailto:hong.fang@rutgers.edu)): Computational design, development, and understanding of advanced materials and interfaces for renewable energy and sustainability
- » Dr. Julie Gripenburg (jg1151@scarletmail.rutgers.edu): Nanoparticle functionalization and light-activation
- » Dr. Hunter King (h.king@rutgers.edu): Mechanics of structures engineered by plants and animals; non-equilibrium and soft matter physics; open-source instrumentation for table-top experiment and field measurement
- » Dr. Jiantao Kong (jiantao.kong@rutgers.edu): Computational condensed matter physics, particularly plasmonics and electron-phonon interactions
- » Dr. Sean O'Malley (omallesc@camden.rutgers.edu): Laser-material interactions; Pulsed Laser Ablation in Liquids (PLAL); laser-based nanoparticle synthesis techniques; nano-scale multiferroics
- » Mr. Cory Trout (cory.trout@rutgers.edu): Nanomaterial synthesis and characterization

physics.camden.rutgers.edu

RESEARCH PATHWAYS

POLITICAL SCIENCE

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Looking for a research project?



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polisci.camden.rutgers.edu

Who are the faculty? What do they research? What are their interests?

- » Dr. Michael Boyle (mb1987@camden.rutgers.edu): Terrorism; political violence; drones; American foreign policy
- » Dr. Kelly Dittmar (kdittmar@eagleton.rutgers.edu): Gender and American political institutions, with a particular focus on how gender informs campaigns and the impact of gender diversity among elites in policy and political decisions, priorities, and processes
- » Dr. Maureen Donaghy (maureen.donaghy@rutgers.edu): Comparative politics and policy; international development; civil society; participatory governance; urban development; Latin American politics; Brazil
- » Dr. Anthony Grasso (agrasso@camden.rutgers.edu): Inequality and the development of American law, with a particular focus on criminal justice
- » Mr. Timothy Knieval (tknieval@camden.rutgers.edu): Impact of 'digital politics' on American society and democracy; the interaction of national security and civil liberties in times of emergency; environmental politics.
- » Dr. Beth Rabinowitz (beth.rabinowitz@rutgers.edu): African politics; comparative politics; international development; political theory
- » Dr. Shauna Shames (shauna.shames@rutgers.edu): American politics, with a focus on gender, race, LGBTQ+ politics, social movements, political ambition
- » Dr. Wojtek Wolfe (wojwolfe@camden.rutgers.edu): Multiple international security areas including US-China relations, energy security, and US foreign policy

RESEARCH PATHWAYS

PSYCHOLOGY

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, faculty are seeking psychology majors for the following projects:

- » "Visual Perception," led by Dr. Sarah Allred (srallred@camden.rutgers.edu)
- » "Relationships, Health, and Aging Lab," led by Dr. Kristin August (kristin.august@rutgers.edu)
- » "Judgment and decision making," led by Dr. Sean Duffy (seduffy@scarletmail.rutgers.edu)
- » "Health Development Lab," led by Dr. Charlotte Markey (chmarkey@camden.rutgers.edu)
- » "Independent Study in the Cognition in Action (CIA) Lab," with Dr. Robrecht van der Wel (r.vanderwel@rutgers.edu)
- » "Social and Existential Motives Lab," led by Dr. Andrew Abeyta (andrew.abeyta@rutgers.edu)
- » "Motivations for Joining the Bone Marrow Transplant Registry," led by Dr. Lauren Daniel (lauren.daniel@rutgers.edu)

Unsure if you are research-ready?

To be research-ready, it is recommended that psychology majors take 50:830:255 Method and Theory, and 50:830:381 Experimental Psychology/50:830:380 Experimental Psychology Lab. It is also recommended that students take multiple semesters of Independent Study (50:830:494, 495) starting in the second year.

Who are the faculty? What do they research? What are their interests?

- » Dr. Andrew Abeyta (andrew.abeyta@rutgers.edu): Satisfying the meaning of life and the need for social belonging
- » Dr. Sarah Allred (srallred@camden.rutgers.edu): Understanding how the human brain parses information with an interest in health equity
- » Dr. Kristin August (kristin.august@rutgers.edu): How relationships help or hinder engagement in health behaviors with an emphasis on the link between physical and mental health
- » Dr. Courtenay Cavanaugh (cocavana@camden.rutgers.edu): Impact of violence on health (e.g., psychiatric disorders, substance abuse, suicide, and HIV/STIs)
- » Dr. Lauren Daniel (lauren.daniel@rutgers.edu): Improving health and quality of life in children, adolescents, and young adults with cancer, with an emphasis on the impact of sleep
- » Dr. Sean Duffy (seduffy@scarletmail.rutgers.edu): Cognition, development, culture, and memory
- » Dr. Daniel Hart (hart@camden.rutgers.edu): Cognitive, civic, moral, and personality development in childhood and adolescence, particularly in urban contexts
- » Dr. Yoona Kang (yoona.kang@rutgers.edu): The influence of social experiences on the health of individuals and groups
- » Dr. Charlotte Markey (chmarkey@camden.rutgers.edu): Development of eating behaviors and body image
- » Dr. Tamara Nelson (tamara.nelson@rutgers.edu): Impact of cultural and contextual factors and help-seeking among racial and ethnic minoritized groups
- » Dr. Ira Roseman (ira.roseman@rutgers.edu): Causes, properties, and effects of specific negative and positive emotions; causes that lead people to endorse particular political or religious beliefs
- » Dr. Robrecht van der Wel (r.vanderwel@rutgers.edu): Psychological mechanisms underlying everyday physical actions, motor control, sequence planning, and the sense of agency



RESEARCH PATHWAYS

SOCIOLOGY, ANTHROPOLOGY, AND CRIMINAL JUSTICE

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Need funding for a research project or conference travel experience?



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Looking for a research project?



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Unsure if you are research-ready?

To be research-ready, it is **required** that sociology and criminal justice majors take 50:920:301 Methods and Techniques of Social Research. It is **recommended** that sociology and criminal justice majors enroll in an Engaged Civic Learning (ECL) course so that they can get out in the community and start thinking about what real-world questions they'd like to answer.

sociology.camden.rutgers.edu

Who are the faculty? What do they research? What are their interests?

- » Dr. Julio Ángel Alicea (ja1485@camden.rutgers.edu): Race and ethnicity; urban studies; organizational theory; education
- » Mr. Ross Allen (rea11@camden.rutgers.edu): Organized crime; white-collar crime; critical issues in criminal justice
- » Dr. Gail Caputo (gcaputo@rutgers.edu): Gender and the criminal justice system
- » Dr. Christina Jackson (jackson.christina@rutgers.edu): Urban sociology and inequality from an intersectional and interdisciplinary perspective
- » Dr. Nathan Link (nathan.link@rutgers.edu): Issues in corrections and sentencing, including financial sanctions and debt; prisoner reentry and desistance; and mental/physical health
- » Dr. Joan Maya Mazelis (mazelis@camden.rutgers.edu): Urban poverty and social ties; student debt; qualitative methods
- » Dr. Michelle Meloy (melmeloy@camden.rutgers.edu): Intimate partner violence; socio-legal analysis; sex crimes and sexual offenders; criminal justice policy
- » Ms. Kimberlee Sue Moran (k.moran@camden.rutgers.edu): Forensic archaeology (taphonomic studies, fingerprint development and enhancement, environmental trace evidence, and the interface of forensic archaeology and crime scene investigation)
- » Dr. Laura Napolitano (laura.napolitano@rutgers.edu): Sociology of the Family; consequences of incarceration for children/families; qualitative methods
- » Dr. Kayla Preito-Hodge (kp961@camden.rutgers.edu): Intersections of race, policing, organizations, and the larger criminal justice system
- » Dr. Daniel Semenza (daniel.semenza@rutgers.edu): Causes and consequences of firearms and domestic violence; links between health, corrections, and crime
- » Dr. Richard Stansfield (richard.stansfield@rutgers.edu): Intimate partner violence and homicide; recidivism and reentry; race, ethnicity, and immigration
- » Dr. Christopher Thomas (c.p.thomas@rutgers.edu): Racial and ethnic disparities in sentencing
- » Dr. Sarah Tosh (sarah.tosh@rutgers.edu): Punitive intersections between drug, crime, and immigration policy in the United States



RUTGERS–CAMDEN
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RESEARCH PATHWAYS

URBAN STUDIES

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dppa.camden.rutgers.edu



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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers.

Unsure if you are research-ready?

To be research-ready, it is recommended that urban studies majors take the following courses:

- » 50:975:250 Community Fieldwork in Camden
- » 50:975:306 Basic Methods of Urban Planning
- » 50:975:400 Community Development



RUTGERS-CAMDEN
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RESEARCH PATHWAYS

VISUAL, MEDIA, AND PERFORMING ARTS

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers.

Unsure if you are research-ready?

To be research-ready, it is recommended that students take the following courses:

Art History: 50:082:101 Introduction to Art History I, 50:082:102 Introduction to Art History II.

Graphic Design: 50:080:213 Introduction to Computer Graphics, 50:080:331 Graphic Design I.

Music: 50:700:225 Music Theory I, 50:700:226 Music Theory II, 50:700:271 Introduction to Music Technology, 50:700:325 Music Theory III, 50:700:373 Introduction to Composition.

Theater: 50:965:123 Voice for the Stage, 50:965:271 Acting I, 50:965:371 Acting II.

Visual Art: 50:080:102 Visual Fundamentals, 50:080:221 Drawing I, 50:080:351 Painting I.

vmpa.camden.rutgers.edu

Who are the faculty? What do they research?
What are their interests?

Art History:

- » Dr. Elizabeth Pilliod (pilliod@camden.rutgers.edu): Art and Artists of 16th-century Florence (Michelangelo, Pontorno, Bronzino); Historiography of Renaissance Art; Art Market for Old Master Drawings, Paintings, Sculpture
- » Dr. Cyril Reade (cyril.reade@rutgers.edu): The work of Janet Wolff, George Segal, and others.
- » Dr. Chinghsin Wu (chinghsin.wu@rutgers.edu): Asian and modern art, with an emphasis on transnational and cross-cultural perspectives

Music:

- » Dr. Julianne Baird (jbaird@camden.rutgers.edu): Medieval and Renaissance music; Handel's "Messiah"
- » Dr. Joseph C. Schiavo (schiavo@camden.rutgers.edu): Musical form and 20th-century music
- » Dr. Mark Zaki (markzaki@rutgers.edu): Composition of acoustic and electroacoustic music, mixed-media, film scoring, and computer-generated visual music; interpretation and realization of new music and historically-informed practices and performance; examination of the behaviors and practices of large-scale multimedia performance networks; and exploring open-source tools and solutions as a platform for digital media pedagogy.

Theater:

- » Mr. Paul Bernstein (paulbern@camden.rutgers.edu): The purposes of revolutionary theater innovations
- » Dr. Kenneth Elliott (kenneth.elliott@rutgers.edu): Professional director
- » Dr. Robert Emmons (raemmons@camden.rutgers.edu): Documentary filmmaker and video essayist
- » Mr. James Mobley (jhmobley@camden.rutgers.edu): Technical director and designer

Visual Art:

- » Ms. Margery Amdur (mamdur@camden.rutgers.edu): Hybrid works, combining painting and sculpture
- » Ms. Elizabeth Demaray (demaray@camden.rutgers.edu): Art and technology; biodesign; community art; new media
- » Mr. Allan Espiritu (allanesp@camden.rutgers.edu): Design for educational, arts, cultural, and non-profit institutions
- » Mr. Stass Shpanin (stass.shpanin@rutgers.edu): Painter and installation artist whose interest is focused on historical interpretations
- » Mr. LiQin Tan (ltan@camden.rutgers.edu): "Digital-Primitive" concepts; singularity art

RESEARCH PATHWAYS

WORLD LANGUAGES AND CULTURES

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Looking for a research project?



If you know you want to get involved in research, but are unsure of where to start, visit go.rutgers.edu/curca-hub to view by subject area and keyword the different research projects seeking undergraduate researchers. Currently, faculty are seeking language majors for the following projects:

- » "Language change and innovation in New Jersey: The case of Guatemalan Spanish in the City of Trenton"
- » "Promotion of early literacy and community health among Latinx families," with Dr. Silvia Perez-Cortes (sp1019@camden.rutgers.edu)
- » "Voces de la comunidad: Connecting environmental perspectives in Camden, New Jersey," with Dr. Carla Giaudrone (cgiaudro@camden.rutgers.edu)

Unsure if you are research-ready?

To be research-ready, language majors should be proficient in and knowledgeable of the language they are pursuing, and also have sufficient content knowledge.

Who are the faculty? What do they research? What are their interests?

French

- » Dr. James Boucher (jb1514@camden.rutgers.edu): Representation of Indigenous peoples of the Americas in French and Quebecois cultures, Global studies
- » Ms. Judith Downing (judithd@camden.rutgers.edu): World language education
- » Dr. Jean-Louis Hippolyte (hippolyt@camden.rutgers.edu): 20th century French literature, Global studies

German

- » Dr. James Rushing (rushing@camden.rutgers.edu): Medieval literature and culture, specifically in the relationship of literary materials to their adaptations in the medieval visual arts, and in the depictions of love, sex, and gender in medieval literature, Global studies

Spanish

- » Ms. Judith Downing (judithd@camden.rutgers.edu): World language education
- » Dr. Próspero García (pg289@camden.rutgers.edu): Spanish second language acquisition and pedagogy, Vygotsky's sociocultural theory of mind, second language evaluation and assessment, technology enhanced language learning, educational linguistics, teacher training and development, and bilingual education
- » Dr. Carla Giaudrone (cgiaudro@camden.rutgers.edu): Hispanic modernismo, queer and gender studies, visual culture, memory and commemoration, affect theory, and landscape and geographical imagination, Global studies
- » Ms. Eveling Hondros (emh160@camden.rutgers.edu): World language education
- » Dr. Ana Laguna (alaguna@camden.rutgers.edu): Early modern literature and culture; applied Humanism; material culture; cultural literacy; visual studies
- » Dr. Silvia Perez-Cortes (sp1019@camden.rutgers.edu): Heritage and second language acquisition; Spanish-English bilinguals; child and adult language development; language attrition; bilingual education; English language learners (ELLs)