

2017 DUKE UNIVERSITY



TRINITY COLLEGE OF ARTS & SCIENCES
BY THE NUMBERS



OUR LIFE'S WORK

Trinity College of Arts & Sciences is the heart of Duke University. Our faculty collaborate across Duke's top ranked schools of business, divinity, engineering, environmental science, law, medicine, public policy, and nursing. We award nearly 80 percent of undergraduate degrees and support deeply interdisciplinary exploration in our undergraduate and graduate curricula. We value ambition paired with meaningful goals, and we strive to give students exceptional access to our faculty and their research programs. We believe in the transformational possibilities of a Duke education.

TRINITY FACULTY DEMOGRAPHICS

663*

Faculty
Members

62%

Men

38%

Women

23%

Faculty
of Color

ARTS & HUMANITIES

<http://trinity.duke.edu/arts-humanities>

208

Faculty
Members

50%

Men

50%

Women

26%

Faculty
of Color

NATURAL SCIENCES

<http://trinity.duke.edu/natural-sciences>

227

Faculty
Members

72%

Men

28%

Women

24%

Faculty
of Color

SOCIAL SCIENCES

<http://trinity.duke.edu/social-sciences>

221

Faculty
Members

64%

Men

36%

Women

19%

Faculty
of Color

*Total includes 7 faculty members with the Thompson Writing Program



Diversity is at the core of a liberal arts education—and at the very core of our institutional values. We believe that diversity—in all its forms—is a driver for new ideas, creativity and academic excellence. To be a truly educated person, we believe we all should embrace and practice an appreciation for different disciplines, thought processes, modes of expression, and histories.

Valerie S. Ashby

Dean of Trinity College of
Arts & Sciences

THE UNDERGRADUATE EXPERIENCE

UNDERGRADUATE CLASS OF 2017

1382
Graduates

45%
Men

55%
Women

46%
Students
of Color

DIVERSITY OF ACADEMIC CHOICES

15%
One
Major

14%
Two
Majors

50%
Major(s) with Minor(s)

12%

9%

Major(s) with Certificate(s)
1 Major, 1 Minor, and 1 Certificate

ACADEMIC ENGAGEMENT

51%
Undergraduate
Research

25%
Graduation
with
Distinction

26%
DukeEngage

54%
Study
Abroad

35%
Service-
Learning

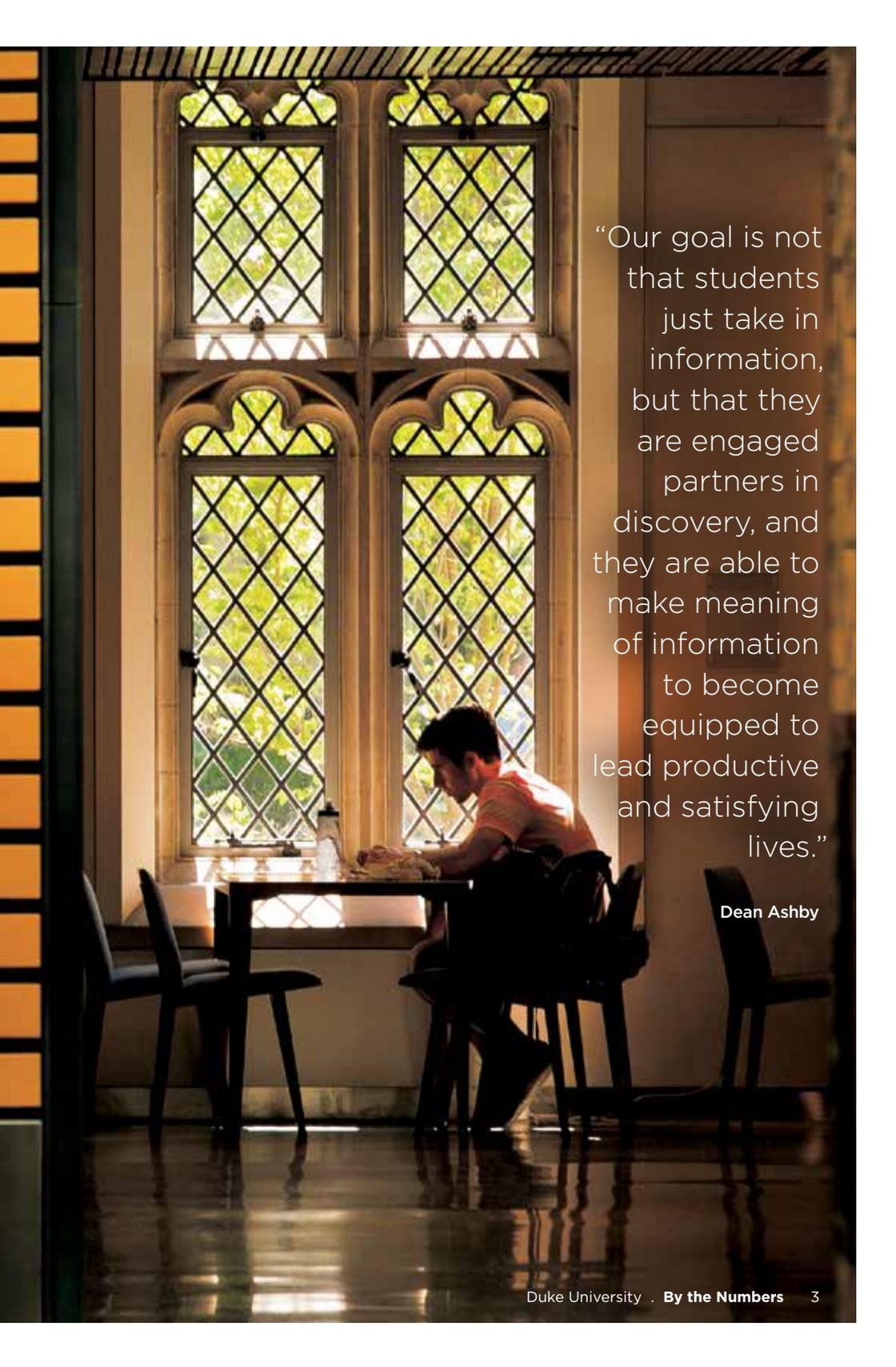
12%
NCAA
Athletics

UNDERGRADUATE OFFERINGS

48
Majors

51
Minors

22
Certificates

A photograph of a student sitting at a table in a room with large, ornate windows. The windows have a diamond-patterned leaded glass design. The student is looking out the window. The room is dimly lit, with light coming from the windows. The student is wearing a red shirt and dark pants. There are three chairs around the table. The floor is dark and reflective.

“Our goal is not that students just take in information, but that they are engaged partners in discovery, and they are able to make meaning of information to become equipped to lead productive and satisfying lives.”

Dean Ashby

INSPIRED TEACHING

These awards, which honor some of the best faculty members and scholars at Duke University, highlight the university's important values — teaching, leadership and diversity.



Dorian Canelas, CHEMISTRY

David & Janet Vaughan Brooks Award

“Dori has implemented a course design that has proven to be very successful and appreciated by her students, and as a result she has fundamentally changed the persistence and success landscape for close to 100 students a year.” – **Professor Stephen Craig, Chemistry**



Jessica Namakkal, INTERNATIONAL COMPARATIVE STUDIES

Howard D. Johnson Award

“What impresses me most is how engaged, dialed in, and focused Dr. Namakkal is with each student... Empathetic and understanding, inspirational and motivational, she is also firm and no-nonsense.” – **Professor Lee Baker, Director of ICS**



Kathi Weeks, GENDER, SEXUALITY & FEMINIST STUDIES

Robert B. Cox Award

“Students praise her for the organization and pacing of her courses as well as her ability to explain difficult concepts and to walk them through difficult texts.” – **Professor Ranjana Khanna, English**



Markos Hadjioannou, LITERATURE

Richard K. Lublin Award

“The erudition and accessibility of his teaching style are, I believe, the reasons why he is such an attractive instructor, drawing students from engineering and the sciences as well as from the social sciences and the humanities.” – **Professor Rey Chow, Literature**



Thomas Nechyba, ECONOMICS

Alumni Distinguished Undergraduate Teaching Award

“It is apparent that for all of his hundreds of citations, publications in the literature, and appearances before signature conferences on the ever-evolving field of microeconomics, Dr. Nechyba’s students remain #1, and that is simply invaluable for any professor to possess.”

– **Student nomination**



Miranda Welsh, THOMPSON WRITING PROGRAM

Excellence in Teaching Writing Award

“Miranda draws on her own background in biology and her own research interests in pathogen transmission, infection, and impact, to craft a course that draws in students with multiple backgrounds and disciplinary interests.” – **Professor Clare Woods, Director of TWP**



Catherine Admay, PUBLIC POLICY

Sue Wasiolek, STUDENT AFFAIRS

Award for Excellence in Advising

Admay’s students praised her for being supportive but also for challenging them to describe why they were choosing their paths. Wasiolek’s nominators highlighted her caring nature and willingness to take the time to get to know students.



Naval Science Advisor Team,

DEPT. OF NAVAL SCIENCE

The Dean’s Leadership Award

The team — Maj. Joseph Steinfels, associate professor of naval science; visiting assistant professors, Capt. Barry Morris, Lt. Joseph Bivans, Lt. Christopher Thumen, Lt. Alexander Dworjan, and Lt. Karl Meyer; and GySgt Zach Doty, USMC — was cited for devising a program that

successfully “enables the students to assume leadership roles within the program and lead their peers.” In addition to classroom education, the program trains students through event planning and operation, community service, personal skills training and cultural exploration.



Sherryl Broverman, BIOLOGY

Diversity Award

Broverman’s Women’s Institute of Secondary Education and Research (WISER) program has promoted diversity by challenging Duke students to work and find ways to solve deep rooted social problems and by improving access of female students to education and STEM education in particular.

Read more about our Winning Faculty Members at: <https://today.duke.edu/2017/04/trinity-college-honors-faculty-staff-teaching-advising-and-leadership>

THE GRADUATE EXPERIENCE

GRADUATE STUDENT CLASS OF 2017

458
Graduates

49%
Men

51%
Women

52%
Students
of Color

GRADUATE STUDENT DEGREES

194
Ph.D.s

163
Master of
Arts

72
Master of
Science

17
Master of
Arts in
Teaching

12
Master of
Fine Arts

GRADUATE OFFERINGS

25
Ph.D. Programs

11
Master of Arts
Programs

6
Master of Science
Programs

AWARD-WINNING MENTORS

Two Trinity Arts & Sciences professors were among the recipients of the 2017 Dean's Awards for Excellence in Mentoring, presented annually by the Graduate School.



Linda M. Burton
James B. Duke Professor of Sociology

Quote from nomination: "What I truly appreciate about Linda is that she approaches her role as a mentor not as an isolated role for a particular moment, but rather as a lifelong commitment."



Kathy Psomiades

Associate Professor of English

Quote from nomination: "Kathy's awareness of her advisees as both students and human beings makes me feel secure, and that security creates an environment in which I feel motivated and able to complete my best work."

FACULTY ACHIEVEMENTS

Arts&Humanities



Aidoo Named Nancy Weiss Malkiel Scholar

Lamonte Aidoo (Romance Studies) was named a Nancy Weiss Malkiel Scholar for 2017. Funded by the Andrew W. Mellon Foundation, the Malkiel Scholars Award supports junior faculty whose research focuses on contemporary American history, politics, culture, and society, and who are committed to the creation of an inclusive campus community for underrepresented students and scholars. Aidoo's research weaves together the histories and cultures of the African diasporas, sexuality studies, and the lettered worlds of law and literature.



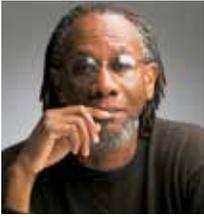
Hayles Elected to Academia Europaea

Katherine Hayles (Literature, English) was elected to membership of the Academia Europaea, the pan European Academy of Sciences, Humanities & Letters. Its membership includes scientists and scholars who collectively aim to promote learning, education and research. Hayles focus areas include digital humanities; electronic literature; literature, science and technology; science fiction; and critical theory.



Holmgren Recognized for Work in Polish History

Beth Holmgren (Slavic and Eurasian Studies) was honored with the Waclaw Jedrzejewicz History Award from the Jozef Pilsudski Institute of America in recognition of her work in Polish history. The Pilsudski Institute is devoted to collecting, safe-keeping and preserving the documents and other historical memorabilia related to the history of Poland, of Poles and of Americans of Polish descent. Trained in Polish and Russian studies, Holmgren has special expertise in narrative and film analysis, performance studies, gender studies, diasporic studies, and cultural history.



Mackey Receives Lifetime Achievement Honor for Poetry

Nathaniel Mackey (English) was awarded the 2016 Rebekah Johnson Bobbitt National Prize for Poetry from the Library of Congress in honor of his lifetime achievement. Mackey is the author of six poetry collections, including the National Book Award-winning “Splay Anthem.” His many previous awards include the 2014 Ruth Lilly Poetry Prize from the Poetry Foundation and the 2015 Bollingen Prize from Yale University.

Natural Sciences



Alberts Honored for Evolution of Lifespan Article

Susan Alberts (Biology, Evolutionary Anthropology, Marine Science and Conservation) is the second senior author on the Cozzarelli Prize-winning article “The emergence of longevous populations in PNAS.” The article won in the Behavioral and Social Sciences category. The prize honors the late Nicholas Cozzarelli, editor-in-chief of PNAS, and “acknowledges papers that reflect scientific excellence and originality.” Albert’s article discusses the evolution of lifespan among primate species and the consistent male disadvantage that is present throughout.



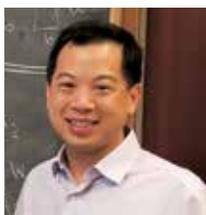
Astrachan Named Outstanding Educator

Owen Astrachan (Computer Science) was named the recipient of the Karl V. Karlstrom Outstanding Educator Award. Astrachan —known as “Mr. AP” because of the central role he has played in the Advanced Placement Computer Science exam taken by high school students — was recognized for three decades of innovative computer science pedagogy and inspirational community leadership in broadening the appeal of introductory computer science courses. From 1985 to 1989, he served on the committee that writes the AP CS exam, and from 1989 to 1994 he was the Chief Reader, the person in charge of grading the exam. Owen also placed a critical role as the exam’s language changed from Pascal to C++ and later to Java, the language it is given in today.

Two Natural Science Professors Named Bass Teaching Fellows



Emily Bernhardt, Jerry G. and Patricia Crawford Hubbard Professor (Biology, Environmental Sciences and Policy), is one of the leading stream-water ecologists in the world. She fosters cross-departmental collaboration in addition to demonstrating excellent teaching and mentoring. Her presence at Duke, including her efforts in raising donations to fund the Duke River Center, has convinced tenured faculty at other universities to join this institution. Bernhardt redesigned the Biology Department's core ecology class to become a flipped classroom, in hopes of encouraging students to think more deeply and independently. Her teaching and mentoring make students constantly seek her as an advisor and mentor.



Lenhard Ng, Eads Family Professor (Mathematics), is a top-level researcher whose work focuses on mathematical knot theory. Ng's research specialty is often considered difficult and abstract, but he has been successful in both getting published in prestigious journals as well as making his work highly accessible to undergraduate students. Ng is devoted to teaching, using strategies that expand "pure" theory to include possible applications. This passion and commitment for teaching extend beyond Duke's campus and are reflected in Ng's mentorship work with local students from the North Carolina School of Science and Math.



Cetinkaya-Rundel Honored for Teaching Elementary Statistics

Mine Cetinkaya-Rundel (Statistical Science) won the 2016 Waller Education Award for her outstanding contributions to and innovations in the teaching of elementary statistics. The Waller Award, established by a contribution from retired American Statistical Association (ASA) Executive Director Ray Waller and his wife, is presented annually by the ASA.



Derbyshire Wins Award for Young Chemistry Faculty

Emily Derbyshire (Chemistry, Molecular Genetics and Microbiology) won a Marion Milligan Mason Award from the American Association for the Advancement of Science. The award recognizes and supports promising young women faculty in the

chemical sciences by providing research support and leadership and mentoring opportunities. Derbyshire focuses her research on addressing global health issues with a goal to globally interrogate parasite biology by using chemical biology, molecular biology, biochemistry and parasitology.



Dunson Awarded Carnegie Centenary Professorship

David Dunson (Statistical Science, Electrical and Computer Engineering) was awarded a Carnegie Centenary Professorship from the Carnegie Trust for the Universities of Scotland. The aim of these professorships is to advance the academic and scientific development of Scottish universities through research collaboration. Dunson focuses his research on developing novel Bayesian methods for inference based on high-dimensional and complex data, with a particular emphasis on neuroscience, genomics and ecology.



Hargrove Named One of Country's Best Early Career Teacher-Scholars

Amanda E. Hargrove (Chemistry, Biochemistry) was awarded a 2017 Cottrell Scholar Award from the Research Corporation for Science Advancement (RCSA). The Award recognizes the country's best early career teacher-scholars in chemistry, physics and astronomy. Hargrove received \$100,000 to support her teaching and research efforts, which involve the use of small molecules to study RNA structure and function.



Haravifard Receives Junior Faculty Enhancement Award

Sara Haravifard (Physics, Mechanical Engineering and Materials Science) received the Oak Ridge Associate University's Ralph E. Powe Junior Faculty Enhancement Award. These annual awards are intended to enrich the research and professional growth of young faculty and result in new funding opportunities. Haravifard's research interest lies in exploring novel phenomena in quantum magnets and superconductors by means of neutron and x-ray scattering techniques, and investigating quantum critical phenomena at extreme environmental conditions.



Machanavajjhala's Data Privacy Paper Wins Most Influential Award

Ashwin Machanavajjhala (Computer Science) received the IEEE International Conference of Data Engineering 2017 Influential Paper Award. He received the recognition for his paper "L-diversity: privacy beyond k-anonymity," which focuses on data privacy, and proposes a novel and powerful privacy criterion that can defend against data attacks.



McClay Receives Lifetime Achievement Award for Research and Mentoring

David McClay (Biology, Neurobiology) received the 2016 Society for Developmental Biology (SDB) Lifetime Achievement Award, which recognizes both sustained research and mentoring. McClay was honored for his distinguished body of work uncovering the mechanisms underlying cell fate specification, patterning, and morphogenesis in the sea urchin embryo.



Mikkelsen Presented Early Career and Research Awards

Maiken Mikkelsen (Physics, Electrical and Computer Engineering) received the Maria Goeppert-Mayer Award from the American Physical Society in recognition of her demonstration of outstanding potential in the field of quantum nanophotonics. She won the 2017 International Society of Optics + Photonics (SPIE)'s Early Career Achievement Award in recognition of her seminal contributions to the understanding of light-matter interactions and ultrafast emission dynamics in plasmonic systems. She won the Young Investigator Program Award from the Army Research Office, which recognizes outstanding young faculty members to support their research and encourage their teaching and research careers. And, she won the Office of Naval Research Young Investigator Program Award for early-career researchers showing exceptional promise for doing creative research. Mikkelsen' research is focused on creating hybrid nanoscale materials to realize unique optical properties that cannot be found in the natural world.

Trinity Faculty Win National Science Foundation Early Career Awards

Four faculty members won National Science Foundation (NSF) Faculty Early Career Development Program (CAREER) Awards. The CAREER award is NSF's most prestigious award in support of the early career development for those who integrate research and education:



Sudeepa Roy (Computer Science): Roy is developing a toolkit that provides fast, rich, insightful semantic explanations in response to “why” questions from users seeking high-level explanations for trends and anomalies in datasets.



Amy Schmid (Biology): Schmid's project seeks to understand how networks of regulatory genes function and evolve to allow microorganisms that live in extreme environments to survive and grow.



Rebecca Steorts (Statistical Science, Computer Science, Biostatistics & Bioinformatics): Steorts plans to develop general methods and scalable algorithms for record linkage so that pressing global issues can be addressed in real time or near real time.



Lillian Pierce (Mathematics): Pierce's project will contribute to the mathematical community through postdoc training, a graduate summer school, and mathematical outreach activities for children.

Pierce Receives AWM-Sadosky Research Prize in Analysis

Lillian Pierce also won the 2018 AWM-Sadosky Research Prize in Analysis for her outstanding contributions to harmonic analysis and analytic number theory. This award, from the Association for Women in Mathematics, recognizes exceptional research in analysis for women early in their careers.



Nijhout Garner Recognition for Contributions to Evolutionary Development Biology

Fred Nijhout (Biology) won the International A.O. Kowalevsky Medal, which is awarded annually by the St. Petersburg Society of Naturalists. The award is given for significant contributions to evolutionary development biology. Through his research, Nijhout seeks to understand how complex traits arise through, and are affected by, the interaction of genetic and environmental factors.



Rausher Recognized for Evolutionary Research Contributions

Mark Rausher (Biology) received the Sewall Wright Award from the American Society of Naturalists. The award recognizes a senior-level investigator for fundamental contributions to the conceptual unification of the natural biological sciences. Rausher's research focuses on evolutionary processes that cause change at both the phenotypic and genetic levels.



Roizen Honored by Editorial Boards with Early Career Award

Jennifer Roizen (Chemistry) was chosen as the 2017 Thieme Chemistry Awardee. The award, which is given by the editorial boards of *Synlett*, *Synthesis*, and *Synfacts*, recognizes promising young faculty at the beginning of their career. Inspired by small molecule natural products, the Roizen's laboratories will initiate research to access improved antibiotics, and selective ion channel inhibitors, with implications for the study and treatment of cancer, heart disease, and neurological disorders.



Warren Wins Liversidge Award for Use of Nonlinear Optical Imaging

Warren Warren (Chemistry, Radiology, Physics) won the 2017 Liversidge Award from the Royal Society of Chemistry. He was recognized for pioneering the use of nonlinear optical imaging to extract molecular information. Warren's research interests and 300 papers reflect advances in very fundamental physics or technology, generally using magnetic resonance or nonlinear optics, with applications in extremely complex systems such as clinical imaging and art conservation.



Bail Named Andrew Carnegie Fellow

Christopher Bail (Sociology, Public Policy) was named a 2017 Andrew Carnegie Fellow, which includes a \$200,000 award given by the Carnegie Corporation of New York to support research on challenges to democracy and international order. The fellowship will support Bail's research, where he is studying predictors of violent extremism using Google search data, and how social networks influence political polarization. He analyzes large groups of texts from newspapers, television, public opinion surveys, and social media sites such as Facebook and Twitter in order to study how nonprofit organizations and other political actors shape public discourse.



Beardsley Awarded Book of the Year Prize

Kyle Beardsley (Political Science) has been awarded the Book of the Year Prize by the Conflict Research Society for his book "Equal Opportunity Peacekeeping." This annual prize honors research that is contemporary, exceptional, and world leading, and which provides an invaluable contribution to the literature on conflict and peace studies. In his book, Beardsley and co-author Sabrina Karim argue that gender power imbalances between the sexes and among genders place restrictions on the participation of women in peacekeeping missions.



Tomasello Recognized by National Academies and *Science Magazine*

Michael Tomasello (Psychology & Neuroscience, Evolutionary Anthropology) — a world-renowned scholar on social cognition, social learning, and communication/language in human children and great apes — was elected to the National Academy of Science (NAS) and the American Academy of Arts and Sciences. Election to the NAS is one of the highest awards a scientist can receive — one reflecting a career of deep scholarship, sustained impact, and truly discipline-changing research. The American Academy is one of the country's oldest learned societies and independent policy research centers, convening leaders from the academic, business, and government sectors to respond to the challenges facing — and opportunities available to — the nation

and the world. Tomasello's research on great apes also received one of the highest distinctions in science: one of the Top 10 breakthroughs in 2016 by *Science* Magazine. Tomasello and his colleagues challenged the assumption that only humans possess the ability to recognize when others hold mistaken beliefs.



Wilbourn Receives Presidential Early Career Award

Makeba Wilbourn (Psychology & Neuroscience), received the Presidential Early Career Award for Scientists and Engineers (PECASE). This is the highest honor bestowed by the United States Government on science and engineering professionals in the early stages of their research. Wilbourn studies how children learn language and how different modes of input, such as gestures, may influence early language and cognitive development. In addition, she is interested in how different cultural backgrounds and linguistic experiences influence children's language learning.

TRINITY MILESTONE

Trinity College of Arts & Sciences **Years 50 Black Faculty** SCHOLARSHIP



2017 marked 50 years of Black faculty scholarship at Trinity College of Arts & Sciences.

To commemorate the anniversary, the College held celebratory events and established the Trinity Distinguished Lecture series, an annual event that honors the excellence, innovation and creativity that stem from a diverse faculty.



Trinity Distinguished Lecture

Mark Anthony Neal (African & African American Studies, English) gave the inaugural Trinity Distinguished Lecture in May 2017. Through his research, Neal challenges audiences to engage with the ideologies of black popular culture. He seeks to understand how the music, television, film and literature of African diaspora cultures impact the societal and cultural norms of the United States and around the world.

DEPARTMENTS AND PROGRAMS

African and African American Studies

<http://aaas.duke.edu>

Art, Art History and Visual Studies

<http://aahvs.duke.edu/>

Asian and Middle Eastern Studies

<http://asianmideast.duke.edu/>

Biology

<http://biology.duke.edu>

Chemistry

<http://chem.duke.edu>

Classical Studies

<http://classicalstudies.duke.edu/>

Computer Science

<http://www.cs.duke.edu/>

Cultural Anthropology

<http://culturalanthropology.duke.edu/>

Dance

<http://danceprogram.duke.edu/>

Economics

<http://econ.duke.edu/>

Education

<http://educationprogram.duke.edu/>

English

<http://english.duke.edu/>

Evolutionary Anthropology

<http://evolutionaryanthropology.duke.edu/>

Gender, Sexuality, and Feminist Studies

<http://gendersexualityfeminist.duke.edu>

Germanic Language and Literature

<http://german.duke.edu/>

History

<http://history.duke.edu/>

International Comparative Studies

<http://internationalcomparative.duke.edu/>

Linguistics

<http://linguisticsprogram.duke.edu/>

Literature

<http://literature.duke.edu/>

Mathematics

<http://math.duke.edu/>

Music

<http://music.duke.edu/>

Philosophy

<http://philosophy.duke.edu/>

Physics

<http://phy.duke.edu/>

Political Science

<http://polisci.duke.edu/>

Psychology and Neuroscience

<http://psychandneuro.duke.edu/>

Religious Studies

<http://religiousstudies.duke.edu/>

Romance Studies

<http://romancestudies.duke.edu/>

Slavic and Eurasian Studies

<http://slaviceurasian.duke.edu/>

Sociology

<http://sociology.duke.edu/>

Statistical Science

<http://stat.duke.edu>

Theater Studies

<http://theaterstudies.duke.edu/>

ACADEMIC PROGRAMS

Academic Advising Center

<http://advising.duke.edu/>

Academic Resource Center

<http://arc.duke.edu>

Center for Documentary Studies

<http://documentarystudies.duke.edu/>

Continuing Studies

<http://learnmore.duke.edu/>

Focus Program

<http://focus.duke.edu/>

Office of Assessment

<http://assessment.trinity.duke.edu>

Service Learning Program

<http://servicelearning.duke.edu/>

Summer Session

<http://summersession.duke.edu/>

Thompson Writing Program

<http://twp.duke.edu/>

Undergraduate Research Support Office

<http://undergraduateresearch.duke.edu/>

ROTC PROGRAMS

Air Force <http://afrotc.duke.edu/>

Army <http://arotc.duke.edu/>

Navy <http://nrotc.duke.edu/>

Duke | TRINITY COLLEGE OF
ARTS & SCIENCES

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Undergraduate Admissions

<http://admissions.duke.edu/>

Graduate Admissions

<http://gradschool.duke.edu/admissions/>

Continuing Studies

<http://www.learnmore.duke.edu>