

like no

OTHER

THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL



For all *now*

For all *new*

For all *next*

The University of North Carolina at Chapel Hill is considered, worldwide, to be a leader in higher education. *But what are the points that validate that claim? How are we leading? Where are we leading?*

This brief collection of notable facts is a modest attempt to answer those questions. We know the University is a living, breathing organism, made of people—brilliant, driven, focused and caring people who constantly create and discover. So by its very nature this collection is limited and uncomprehensive. Together we will continue to curate. Please feel free to send additional notable points to: mycarolinastory@unc.edu.

As we view some of the areas where Carolina leads, we are reminded that we lead for a purpose. For all that is happening now, and to bring about immediate impact on human welfare. For all that is new and rich with potential and innovation. For all that will come next, revealed by discoveries we have yet to make. And as the University that is of and for the people, we do this for all kind—here at home and around the world.

THANK YOU for your interest in learning about our great University.

1

The University of North Carolina at Chapel Hill is the nation's first public university and a global higher education leader known for innovation in teaching, research and public service. On Oct. 11, 2016, the University celebrated its 223rd birthday.

A member of the prestigious Association of American Universities, Carolina regularly ranks as the best value for academic quality in U.S. public higher education.

The University offers 77 bachelor's, 113 master's, 68 doctorate and seven professional degree programs through 14 schools and the College of Arts and Sciences.

Every day, faculty (including two Nobel laureates), staff and students shape the mission of their work to meet North Carolina's most pressing needs in all 100 counties.

Carolina's more than 308,000 alumni live in all 50 states and 150 countries. More than 167,000 live in North Carolina.

2

**Carolina is
leading the way
to treat and cure
HIV/AIDS.**

UNC's HIV prevention research study was named "2011 Breakthrough of the Year" by the journal *Science*. Led by Dr. Myron Cohen, the study, HPTN 052, evaluated whether antiretroviral drugs can prevent sexual transmission of HIV among couples in which one partner has HIV and the other does not. The research found that early treatment with antiretroviral therapy reduced HIV transmission in couples by at least 96 percent.

Many attribute UNC's leadership position in HIV research to its collaboration and diverse strengths, ranging from laboratory science, pharmacology and clinical care to the behavioral sciences.

In 2015, Carolina and GSK announced a novel public-private partnership to further accelerate the search for an HIV cure. The collaboration includes AIDS research experts from both UNC and GSK working side by side within the UNC HIV Cure Center with the UNC School of Medicine.

3

**Carolina has
the #2 autism
program in
the country.**

Carolina is the No. 1 public university in the world in peer-reviewed autism research, according to a 2012 report from the Interagency Autism Coordinating Committee, a federal advisory committee. Ranked No. 2 overall, Carolina is just behind Harvard University.

The key to UNC's success is the breadth and depth of autism expertise among the UNC faculty. Carolina's world-class autism faculty span over five UNC schools and work collaboratively across the basic, clinical and intervention sciences.

Though a cure for autism is unlikely because of the nature of the condition, the future UNC Autism Research Center will create a new model for developing personalized interventions to significantly improve the lives of autistic children and adults.

4

Carolina leads the nation in faster analysis of individualized cancer treatments.

NOTE

When compared with traditional physician analysis of 1,000 cancer patients, Watson's treatment recommendation was consistent with the physicians' in 99 percent of cases. However, in one-third of those cases, Watson was able to offer a second or even third potentially life-saving treatment option, of which physicians were unaware.

In October 2016, CBS's *60 Minutes* featured UNC Lineberger Comprehensive Cancer Center's partnership with IBM's artificial intelligence project, Watson, known widely for winning *Jeopardy!* in 2011.

IBM turned to UNC Lineberger, a world leader in cancer genomics, to help test whether IBM Watson could improve how cancer experts identify therapeutic options. By pairing a cancer's DNA profile with information culled from millions of medical journals, tens of thousands research studies, and a wide array of scientific databases, we demonstrated that Watson – and cognitive computing – could help identify patient-specific treatments, significantly reducing the amount of time it takes to perform this analysis, from sometimes weeks to minutes. Most important, Watson identified potential treatment options that we not yet considered in one-in-three-cases.

Now, UNC Lineberger researchers are using genomic sequencing to unlock information that RNA can provide about the genetic underpinnings of cancer. By developing a more complete and comprehensive understanding of the molecular basis of cancer, we are better prepared to discover better and more effective treatments.

5

Carolina is one of the World Health Organization's lead academic partners.

NOTE

As of the latest report, Carolina's complete research portfolio ranks #7 in overall NIH funding, between Stanford at #6 and Yale at #8.

UNC's Maternal and Child Health department in the Gillings School of Global Public Health is among the world's most respected in the fight to end worldwide preventable deaths of women, children and adolescents. The United Nations' World Health Organization (WHO) agrees.

In September 2015, WHO selected Carolina as its lead worldwide academic partner to help coordinate implementation research for a bold new strategy aimed at saving the lives of millions of women, children and adolescents across the world within the next 15 years.

Carolina, which has established a leadership role in the important new field of implementation science, and WHO will coordinate the efforts of dozens of university partners from across the world to assure that life-saving interventions are implemented successfully and sustainably in the parts of the world where they are needed most.

6

Carolina proudly serves all 100 counties in North Carolina.

Service to the state of North Carolina is central to UNC's mission. Though it is difficult to qualify each of the programs that touch all 100 counties, it is important to note that the network of Carolina's staff, faculty and students form a web of work so interconnected between UNC and the entire state that impact is felt far and wide. However, below are two important and very specific ways the University serves all 100 Tar Heel counties:

UNC SCHOOL OF GOVERNMENT

The nation's largest university-based local government training, advisory and research organization, serving more than 12,000 public officials each year.

UNC HEALTH CARE

Each year, UNC practices and clinics care for more than 800,000 people, including more than 3,500 new Tar Heels born at the N.C. Women's Hospital and N.C. Children's Hospital. In addition, N.C. Area Health Education Centers program (AHEC) provides educational programs and services with a focus on underserved populations.

7

Carolina has the region's most extensive collection of Southern historical archives.

Long at the center of inquiry into the history and culture of the American South, the Southern Historical Collection at UNC's Wilson Library is a vast collection of distinct archival collections—the largest in the region with more than 18 million items organized in more than 5,000 discrete collections.

These collections feature unique primary documents, such as diaries, journals, letters, correspondence, photographs, maps, drawings, ledgers, oral histories, albums, scrapbooks and literary manuscripts.

Vast in scope, the Southern Historical Collection documents all periods of Southern history since the late 18th century.

NOTE

The North Carolina Collection in Wilson Library holds the largest collection of published materials and photographs about any single state. Including gems like: the Thomas Wolfe Collection, the Sir Walter Raleigh Collection, and an estimated 1.5 million documentary photographs of the state.

8

Carolina is dramatically improving access and training for medical care around the world.

NOTE

Carolina's impact in Africa extends beyond healthcare. Music Professor Cheri Rivers Ndaliko researches and teaches about the intersection of creativity, conflict and social change in Africa. She also runs Yole!Africa, which supports African youth in building skills and alternative education to thrive despite deadly regional conflict.

More than 20 years ago, UNC faculty were invited by the Malawian government to help the country develop sexually transmitted infections treatment protocols. UNC has been working in Malawi ever since.

In partnership with the Malawi Ministry of Health and the Malawi College of Medicine, the University established UNC Project-Malawi, a research, care and academic training center in the capital city of Lilongwe in 1989.

Like much of Sub-Saharan Africa, Malawi faces significant health care-related challenges. Malawi has only one physician per 50,000 people, and the average life expectancy is 54 years. There is a high burden of HIV, malaria, TB and other infectious diseases straining the country's limited health care infrastructure.

In a short amount of time Carolina's team in Malawi has doubled the number of OB/GYNs in the country and greatly increased the number of surgeons. These doctors are Malawians who have committed to staying and will become teachers that continue to train and expand the number of physicians in the country.

9

**Carolina's
Galapagos Science
Center is the only
university research
center in the
Galapagos Islands.**

UNC and the Universidad San Francisco de Quito, Ecuador, have partnered to address the challenges facing the Galapagos Islands.

The center fosters research, education and outreach programs that advance conservation in the Galapagos and promote better understanding of ecologically sensitive and protected areas worldwide.

The center focuses on:

- Human–environment interactions
- Marine ecology
- Terrestrial ecology
- Microbiology
- Public health
- Earth sciences

The center encourages interdisciplinary and integrative science that emphasizes the interactions between the human, terrestrial and marine subsystems. The result: Diverse faculty from UNC and across the globe come together around common research interests to accelerate new ways of thinking.

10

Carolina professor is the first in the state to analyze racial profiling.

NOTE

Baumgartner is the co-creator of the Comparative Agendas Project. The online initiative provides comprehensive databases for analysis of every congressional hearing, law, bill introduced, Supreme Court decision, executive order and more since 1947.

“In 1999, North Carolina became the first state in the country to mandate the collection of data whenever a police officer stops a motorist.

Since January 1, 2000, the State Highway Patrol has been collecting these data, and since January 1, 2002, all sizable police departments in the state have done so.

The data are made publicly available by the N.C Department of Justice...However, the state has never issued any reports based on analyses of the data collected.

In 2011, I was asked to help compile some statistics for the North Carolina Advocates for Justice, and with my graduate student Derek Epp, I did so. Since then, I have been active in a series of analyses of particular elements of these data, in particular the racial characteristics of stops and searches in different communities.”

-Frank Baumgartner,
Richard J. Richardson Distinguished Professor
of Political Science

Carolina physicist's findings lead to historic conference on black holes.

Laura Mersini-Houghton, a UNC physics professor, appears to have mathematically proved that quantum effects are strong enough to stop the formation of black holes. Mersini-Houghton's work opened up a new round of discussions and debates about the origins of the universe.

In September 2015, Carolina co-sponsored a conference in Stockholm that brought together some of the world's most accomplished theoretical physicists to discuss the question of whether singularities in black holes exist and whether Hawking Radiation has bearing on their existence.

A highlight of the conference came when one of the world's best-known physicists, Stephen Hawking announced a completely new solution to the information loss paradox.

12

Carolina professor received National Medal of Technology and Innovation.

NOTE

In the movie *Terminator 2*, the robot T-1000 takes shape from a puddle of metallic goo, rising from the ground to form the shape of a human. This scene inspired DeSimone and his colleagues to pioneer their 3-D printing method.

The National Medal of Technology and Innovation is the nation's highest honor, granted by the President of the United States, for achievement and leadership in advancing the fields of science and technology.

In 2016, Joseph M. DeSimone, Chancellor's Eminent Professor of Chemistry at Carolina and Kenan Distinguished Professor of Chemical and Biomolecular Engineering at N.C. State University, received the award "for pioneering innovations in material science that led to the development of technologies in diverse fields from manufacturing to medicine; and for innovative and inclusive leadership in higher education and entrepreneurship."

For the past 25 years, 3-D printing technology has remained limited in that objects must be built or printed one layer at a time. But DeSimone, along with colleagues Alex Ermoshkin and Edward T. Samulski, Cary Boshamer Professor of Chemistry professor at UNC, developed a fundamentally new approach that enables objects to rise continuously from a liquid media.

The technology allows ready-to-use products to be made 25 to 100 times faster than other methods.

13

**Carolina's
computer science
department
was founded by
the inventor of
modern computer
programming.**

NOTE

In 1985, President Ronald Reagan awarded Brooks the National Medal of Technology and Innovation.

“You can’t accelerate a nine-month pregnancy by hiring nine pregnant women for a month. Likewise, says University of North Carolina computer scientist Fred Brooks, you can’t always speed up an overdue software project by adding more programmers; beyond a certain point, doing so increases delays. Brooks codified that precept 35 years ago in a small technical book, The Mythical Man-Month, which he named after the flawed assumption that more manpower meant predictably faster progress. Today, his insight is known as Brooks’ law. The book still sells 10,000 copies a year, and Brooks—who oversaw the creation of IBM’s System/360, the company’s most successful mainframe—is hailed as a legend.”

-Kevin Kelly, executive editor, *Wired* magazine
“Master Planner: Fred Brooks Shows How to Design Anything,” *Wired*, July 28, 2010

In 1964, Fred Brooks founded the Department of Computer Science at Carolina and went on to chair it for 20 years. Currently, he is Kenan Professor of Computer Science, emeritus. His principal research is in real-time, three-dimensional computer graphics—“virtual reality.” His research has helped biochemists solve the structure of complex molecules and enabled architects to “walk through” structures still being designed. He is pioneering the use of force display to supplement visual graphics.

14

Carolina is home to a Nobel Prize in Chemistry.

Aziz Sancar received the 2015 Nobel Prize in Chemistry for his groundbreaking work in mapping DNA repair.

Sancar, the Sarah Graham Kenan Professor of Biochemistry and Biophysics at the UNC School of Medicine, has been a professor at UNC since 1982. He co-earned the Nobel for his work on mapping the cellular mechanisms that underlie DNA repair, which occurs every single minute of the day in response to damage caused by outside forces, such as ultraviolet radiation and other environmental factors.

In particular, Sancar mapped nucleotide excision repair, which is vital to DNA subjected to UV damage. When this repair system is defective, people exposed to sunlight develop skin cancer. Also, Sancar showed that other substances can damage the nucleotide excision repair system. His work provides the crucial basic knowledge necessary to develop better treatments that protect against DNA damage, which can result in cancer.

15

Carolina is home to a Nobel Prize in Physiology or Medicine.

Dr. Oliver Smithies received the 2007 Nobel Prize in Physiology or Medicine for discoveries of principles for introducing specific gene modifications in mice by the use of embryonic stem cells.

Smithies, Excellence Professor of Pathology and Laboratory Medicine at the UNC School of Medicine, has been a professor at UNC since 1988. He co-earned the Nobel for developing a technique to introduce DNA material in cells, replicating a natural process called homologous DNA recombination.

He thought that genetic disorders could be treated by correcting mutations in bone marrow cells, or stem cells. This “gene targeting” led to the creation of transgenic mice, or “designer mice,” that replicated human disease. Smithies’ lab produced the first animal model of cystic fibrosis, a disease caused by one defective gene, and also studied high blood pressure, atherosclerosis and other diseases.

Carolina is pushing the frontier in converting skin cells into cancer- fighting stem cells.

NOTE

Depending on the type of tumor, Shawn Hingtgen's team doubled and even tripled the survival time in mouse studies.

Carolina scientists in the UNC Eshelman School of Pharmacy, led by Dr. Shawn Hingtgen, are using the newest version of a Nobel Prize-winning technology that converts skin cells into stem cells. However, they are using this evolving technology in a new way—to individualize cancer treatment. By converting skin cells into new cancer-killing stem cells in their lab, UNC researchers are able to attack glioblastoma, an aggressive brain tumor with very low survival rates.

Fragments of the tumor can remain after surgery, so researchers insert the newly-created stem cells to hunt down the cancer cells and mop up the remnants that can cause the cancer to reoccur. The findings indicate positive gains toward a more effective treatment for glioblastoma.

An important example of cross-disciplinary collaboration, Hingtgen is also a member of UNC Lineberger Comprehensive Cancer Center. He collaborates with UNC Lineberger physicians and scientists to better understand the nature of these problems and develop this novel solution.

FACTS & FIGURES

FALL 2016

QUICK FACTS

1

NATION'S FIRST PUBLIC UNIVERSITY
only public university to award degrees in the
18th century

18,415

undergraduates

3,778

faculty

10,669

graduate &
professional students

8,409

staff

>75

majors and minors in

60

departments,

68

doctoral programs,

113

master's programs offered

15

TWO NOBEL LAUREATES

Dr. Aziz Sancar co-recipient of the 2015 Nobel Prize
in Chemistry

07

Dr. Oliver Smithies co-recipient of the 2007 Nobel
Prize in Physiology/Medicine

Over **308,000** alumni living

in all **50** states

and **150** countries and more

than **167,000** live in North Carolina

35,863 applicants to Class of 2020

11th consecutive record of first-year applicants

12% increase over last year

WORLD-CLASS EDUCATION

1

KIPLINGER'S RANKS UNC #1
in value for the 15th consecutive time

1

First public university based on 20 indicators of excellence
in Business First's 2016 rankings

5

Fifth best public university in *U.S. News & World Report's*
2015 "Best Colleges" guidebook for the 15th year

15

Fifteenth on the list of the world's "Top 100 Most
Innovative Universities" according to *Reuters* 2015 survey

1

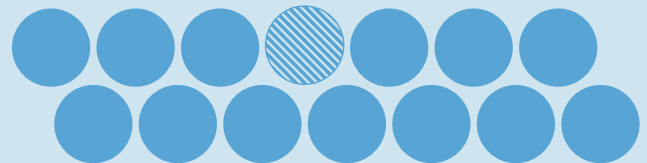
First in nation – Eshelman School of Pharmacy tops *U.S.
News & World Report's* 2016 rankings

7

Seventh overall in best undergraduate business programs in
Bloomberg Businessweek's 2016 rankings

Nearly **1/3** of Carolina undergraduates study in
other countries before graduation—
*one of the highest study abroad rates among
public universities nationwide—*
with **325** programs
in **70** countries

13:1 student-faculty ratio



STUDENT ACHIEVEMENT

5

Carolina athletics placed fifth in the 2014-15 Learfield Directors' Cup ranking of best collegiate athletic programs

49 Rhodes Scholars since the program began in 1904

44 Goldwater Scholars, including 30 since Fall 2000

37 Luce Scholars for internship in Asia – highest in the U.S.

250+ Fulbright Student Program Awards for global research and study since 1973

987 Carolina's varsity athletic program's Academic Progress Rate (APR) is a school-record high of 987

+21 Carolina has raised its APR 21 points in the last 4 years

More than
3,000 undergraduates produce original research

in **140** humanities, natural sciences, social sciences, and UNC-Chapel Hill's professional schools

RESEARCH & INNOVATION

1,726,164

square feet of facilities devoted to research at Carolina

6

Our research facilities are the size of approximately 6 Dean E. Smith Centers

8

in research activity among nation's public and private universities

17

in Sierra Club ranking of America's greenest colleges and universities

More than **\$7 BILLION**

in annual revenue generated by North Carolina businesses that got their start at Carolina

10,586

employees from 93 N.C. counties employed by UNC Research with

\$300

million in annual payroll

Carolina has reached

nearly **\$1 BILLION**

dollars in annual research expenditures

ACCESSIBILITY

Launched in 2004, **THE CAROLINA COVENANT** is UNC-Chapel Hill's promise to youth from low-income families toward a debt-free opportunity in higher education—14% of Carolina's incoming class qualified for the program

43% of Carolina students receive need-based aid

Cited by *The New York Times* as one of the **MOST ECONOMICALLY DIVERSE COLLEGES** in 2015

DIVERSITY

Carolina awarded 2015 **HIGHER EDUCATION EXCELLENCE IN DIVERSITY** award from *INSIGHT Into Diversity* — oldest, largest, diversity-focused publication in higher education



best public university/college in nation for African-American students by *MONEY* and *Essence* magazines

17

**Carolina is
among the most
respected liberal
arts programs in
the nation, and
intentionally
keeps it central
the educational
experience.**

At Carolina, research extends well beyond social and physical sciences. UNC has more than two dozen departments, centers and programs devoted to research in the arts and humanities, including several hundred faculty engaged in humanities-related research.

Beyond the research and programmatic opportunities, experiencing the sense of place is a hallmark of the University. Though the landscape is among the most picturesque in all of higher education and Franklin Street pulses with dynamic energy, central to the University experience are the liberal arts education and the positioning of the buildings where it happens.

Carolina placed its liberal arts buildings in an easily walkable cluster at the center of campus. In addition, all undergraduate students must complete their first two academic years in the College of Arts and Sciences. The expansive General Education curriculum ensures that students receive both breadth and depth in their studies. A two-century tradition of valuing a liberal arts education has attracted many of the nation's foremost faculty and scholars, in disciplines ranging from the fine arts, literature, and philosophy to mathematics and the social and physical sciences.

Carolina intends to unify the arts for even deeper impact.

NOTE

Through philanthropic support the arts at Carolina are incredibly affordable for students. All Carolina Performing Arts and Playmakers performances are just \$10 for students. The Ackland Art Museum is free for all.

In October 2016, Carolina announced an initiative to communicate the breadth and depth of its arts activity and ensure coordinated and strategic brand development of the arts at Carolina.

The partners in this campaign include: the College of Arts & Sciences, through its departments of music, art, dramatic art, and Playmakers Repertory Company; Ackland Art Museum; Sonja Haynes Stone Center for Black Culture and History; Carolina Performing Arts; and the Chancellor's Arts Initiative (Arts Everywhere).

This idea will support innovative curricula that span artistic disciplines; improve the overall quality of Carolina's arts programs by recruiting and retaining the finest faculty, students and visiting artists to Chapel Hill; increase connections to the community; and create a sustainable level of excellence in classrooms, practice rooms, studios, and all over campus.

Engagement in the arts is essential to cultivating a rich, diverse, and adventurous discourse at Carolina. By urging our campus community to engage and experiment with the arts, we shape a global community that values nuance, respects diversity and drives innovation.

**Carolina's
Kenan-Flagler
Business School
consistently
produces many of
the nation's most
innovative leaders.**

- Lee Ainslie — founder and CEO, Maverick Capital
- John A. Allison IV — chairman and former CEO, BB&T
- Dwight Anderson — founder and CEO, Ospraie Management
- Jack Bailey — president, U.S. Pharmaceuticals at GlaxoSmithKline
- Erskine Bowles — former president, University of North Carolina system; former White House chief of staff
- Michele Buck — president, The Hershey Company
- Brent Callinicos — CFA, Hyperloop One; former CFO, Uber Technologies
- David Carroll — head of wealth and investment management, Wells Fargo
- Susan Cates — COO, 2U
- Donna Dean — CIO, The Rockefeller Foundation
- Bobby Evans — senior vice president and general manager, San Francisco Giants
- Paul Fulton — chairman emeritus, Bassett Furniture Industries; former president, Sara Lee Corporation
- Pierre F. Lapeyre, Jr. — founder and CEO, Riverstone Holdings
- Chris Lindland — founder and CEO, Betabrand.com
- Charles Loudermilk — founder and chairman emeritus, Aaron Rents, Inc.
- Hugh L. McColl, Jr. — chairman emeritus, Bank of America
- Gary Parr — vice chairman, Lazard Freres & Co.
- Mercer Reynolds — finance chair, George W. Bush presidential campaign
- Paul Rizzo — chairman emeritus, Franklin Street Partners; former vice chairman of the board, IBM Corporation
- Julian Robertson — chairman emeritus, Tiger Management
- C. Dixon Spangler, Jr. — president emeritus, University of North Carolina system
- John Townsend — managing partner, Tiger Management
- Phail Wynn — former president, Durham Technical Community College; vice president for Durham and regional affairs, Duke University
- G. Smedes York — mayor of Raleigh (1979-1983)
- Tucker York — global head of private wealth management, Goldman Sachs

Carolina's media and journalism school alumni rank among the field's most notable.

- Brooke Baldwin — American broadcast journalist
- Furman Bisher — sportswriter and editor
- Pamela Brown — CNN justice correspondent
- Howie Carr — journalist and radio talk show host
- Hayden Carruth — poet, National Book Award winner
- W. Horace Carter — Pulitzer Prize winner; publisher and editor, *Tabor Tribune*
- Art Chansky — sportswriter and author
- Jacquie Charles — award-winning Haiti correspondent for *The Miami Herald*
- Helene Cooper — *The New York Times* Pentagon correspondent, Pulitzer Prize recipient
- Rick Dees — radio personality
- John Drescher — executive editor, *The News & Observer*
- Lawrence Ferlinghetti — poet and publisher
- Bill Goodwyn — president and CEO, Discovery Education
- Ashlan Gorse — broadcast entertainment journalist
- Gail Gregg — artist, photographer and journalist
- Walter E. Hussman, Jr. — publisher, *The Arkansas Democrat-Gazette*
- Dick Jenrette — founder, Donaldson, Lufkin and Jenrette
- Carl Kasell — broadcast journalist
- Jason Kilar — media entrepreneur
- Sallie Krawcheck — CEO and co-founder, Ellevest; former CEO, Citigroup Inc.
- Sharon Lawrence — Emmy-nominated actress
- Ken Lowe — CEO, Scripps Networks
- Jeff MacNelly — editorial cartoonist, Pulitzer Prize winner, creator of *Shoe*
- Doug Marlette — Pulitzer Prize-winning editorial cartoonist
- Thad Mumau — author
- Peyton Reed — television and film director
- Gene Roberts — editor, *Philadelphia Enquirer* and *The New York Times*; part of 17 Pulitzer Prizes
- Vermont C. Royster — former editor, *The Wall Street Journal*
- Robert Ruark — journalist and novelist
- Stuart Scott — journalist and anchor, ESPN
- Melanie Sill — vice president of content at KPCC; Pulitzer Prize winner; former executive editor, *Sacramento Bee*
- Pat Stith — Pulitzer Prize winner and journalist, *The News & Observer*
- Kayla Tausche — American broadcast journalist
- Ed Vick — chairman, Young & Rubicam
- Tom Wicker — author; journalist, *The New York Times*
- David Zucchino — Pulitzer Prize winner

Carolina student-athletes are among our strongest academic performers.

NOTE

Carolina has a remarkably broad-based athletic program with 28 sports and more than 800 student-athletes.

Beyond the thrill of competition, athletics can be a catalyst for leadership, discipline and strategy. At Carolina, many of our student-athletes apply those principles in academics, as well as athletics.

The following is a small sampling of student-athletes recognized as academic leaders in 2015-16:

ACADEMIC ALL-AMERICA

- Jonathan Campbell, Men's Soccer
- Hayley Carter, Women's Tennis
- Paige Neuenfeldt, Volleyball
- David October, Men's Soccer
- Marcus Paige, Men's Basketball

PHI BETA KAPPA

HONORARY SOCIETY

- Jake Bernstein, Men's Fencing
- Abby Fisher, Women's Swimming and Diving
- Sarah Howard, Women's Track and Field
- Houston Summers, Men's Track and Field
- Carly Wooten, Women's Fencing

ACADEMIC ALL-DISTRICT 3

- Joanna Boyles, Women's Soccer
- Jonathan Campbell, Men's Soccer
- Hayley Carter, Women's Tennis
- Emily Godwin, Women's Track and Field/Cross Country
- Sarah Howard, Women's Track and Field/Cross Country
- David October, Men's Soccer
- Paige Neuenfeldt, Volleyball
- Marcus Paige, Men's Basketball
- Tyler Ramirez, Baseball
- Houston Summers, Men's Track and Field/Cross Country

In addition to the honors above, Carolina student-athletes received about 100 more, and a total of 356 made the ACC Academic Honor Roll (an all-time high). Along with individual accolades, Carolina student-athletes compiled a record-high Academic Progress Rate of 987 in 2014-15 (the data set the NCAA released this year), with 18 sports scoring a perfect 1,000.

**Carolina is the
first public
university in the
United States
and some believe
it's the only truly
public research
university left.**

“The University of North Carolina was part of a new generation of public universities that opened during the early years of the republic. Chartered in 1789, it held its first classes in 1795, making it the first public university to begin instruction in the U.S.”

– The Carolina Story: A Virtual Museum of University History

Two other universities also claim the title of “the country’s first public university.” The University of Georgia opened for students in 1801, even though it had been chartered in 1785. The College of William & Mary received its first students in 1693 as a private university, and it was not until 1906 that it cemented its relationship with the Commonwealth. It has remained public since.

Over recent decades, facing increasing budget cuts and funding difficulties, many public research universities have changed to funding models more typical of private universities. An important distinction between Carolina and those universities is that Carolina remains focused on truly need-blind admissions and therefore supporting students with the greatest need through scholarship programs. No student is ever denied admission to Carolina based on their ability to pay.

23

Carolina is the leader in higher education student access and affordability.

NOTE

In total, 43 percent of Carolina’s undergraduate students received financial aid in 2014-15; the University provided \$209 million in aid. Students receiving aid routinely improve their class. For example, in 2015, almost 80 percent graduated in the top 10 percent of their high-school class; of the next students in line, that share was 49 percent.

Carolina stands virtually alone among public universities in meeting the full demonstrated financial need of all undergraduate students who qualify for federal aid.

The Carolina Covenant is a groundbreaking initiative that enables students from low-income households to come to UNC and graduate debt-free through a combination of grants, scholarships and federal work-study. Admitted based solely on their academic credentials, with no regard to their financial circumstances, they leave campus with a world-class education and one of the nation’s most respected university diplomas.

The Covenant provides academic and personal support programs and enrichment opportunities that help students adjust to college life and complete their baccalaureate education. Since its launch, there has been a dramatic improvement in the four-year graduation rate of low-income students at Carolina. The rate for Class of 2015 Covenant Scholars was 80.4 percent, compared to 56.7 percent for earlier students who would have qualified for the Covenant had it existed.

Carolina is telling the world what our population of today means for tomorrow.

NOTE

The Carolina Population Center's research is not only analytically and substantively important, but also quite visible—Google Scholar lists more than 10,000 citations to Phillip Morgan's work.

At the Carolina Population Center, under the leadership of Philip Morgan, director and Alan Feduccia Distinguished Professor of Sociology, the University is helping the world see how behavior affects today's human condition and the implications for the future.

According to the Population Association of America, Morgan is one of the nation's foremost scholars in social demography. This expertise has given Carolina national attention for the study of fertility, both in the U.S. and developing countries, and of the changing structure of the American family.

The work focuses on how structural and cultural factors lead to differences in reproductive regimes across populations, and the ways that social expectations, aspirations or structural forces become visible in social statistics.

Thanks to Morgan's work and leadership, numerous publications tout the ingenious use of formal quantitative methods to address these and other fundamentally social questions.

25

**Carolina's N.C.
Jaycee Burn Center
is one of the
best burn centers
in the nation.**

In 2012, the N.C. Jaycee Burn Center underwent a site review for re-verification as Center of Excellence. The center passed with flying colors. The reviewers said UNC has “likely the best Burn Center in the nation.”

Evidence abounds to prove the Burn Center's excellence. Beyond treating over 1,500 patients annually and operating at capacity, it is one of the few centers in the nation that the American Burn Association has verified for adult and pediatric burn care.

The center reaches far beyond Chapel Hill. It has led efforts to install telemedicine in UNC Health Care hospitals across the state and has developed one of the most successful burn centers in Sub-Saharan Africa in Malawi. As a comprehensive center like no other, UNC has the oldest burn survivor camp in the nation and is committed to providing lifelong care to its patients.

26

Carolina hosts one of the world's most important annual conferences on water and health.

Since 2011, The Water Institute at UNC has brought together world leaders in water and related health topics to collaborate on solving the most critical global issues in water, sanitation, health and development.

The conference attracts approximately 600 participants from nearly 40 countries.

In 2015, a study led by The Water Institute was named one of the Best of UNICEF Research studies, based on research that excels at generating knowledge to inform action, shaping policy agendas, and shifting discourse to improve the lives of children everywhere. *“Fecal contamination of drinking water in low- and middle-income countries: A systematic review and meta-analysis”* was selected as a top example of quality research and evidence gathering on children. Only 12 studies were selected by UNICEF for this recognition.

This study showed that an “improved” water source doesn’t always equate to being a “safe” water source. This work helped set the United Nations’ Sustainable Development Goals on the course toward incorporating safety as a target for rich and poor countries alike and fully focused on the rights to water and health.

27

Carolina's Eshelman School of Pharmacy is the #1 pharmacy school.

In 2016, the UNC Eshelman School of Pharmacy was named the #1 school of pharmacy in the nation by *U.S. News & World Report*. This distinction, extraordinary in its own right, is significant particularly because it recognizes the school's commitment to revolutionizing pharmacy research, practice and education. The school achieved this honor through an impressive range of important innovations and by rethinking what is possible.

A few examples are:

- Launching the Eshelman Institute for Innovation to ignite the creation of bold, risky ideas.
- Creating the PharmAlliance, a unique global partnership between three global leaders in pharmacy education: UNC, Monash University and University College London.
- Achieving preeminence in drug discovery, drug delivery and clinical pharmacology.
- Leading the nation in transforming and advancing the pharmacy-education curriculum.
- Accelerating the research process and turning discoveries into new treatments and best practices.
- Improving the delivery of health care by creating innovative models of pharmacy practice.

Carolina is re-envisioning the humanities PhD.

Carolina is taking part in a major national initiative to transform graduate education in the humanities.

Funded by the National Endowment for the Humanities, the effort looks beyond “the academic-focused future we’re accustomed to training graduate students for,” said NEH Chairman William D. Adams.

Adams went on to say, “If graduate programs wish to make a case for the continuation of graduate education in the humanities, they’re going to have to think about the professional futures of their students in entirely different ways.”

Institute for the Arts and Humanities Director Mark Katz worked with colleagues from across the University to propose “Re-envisioning the Humanities PhD,” a yearlong campus-wide conversation on graduate education in the humanities. The hope is that this initiative will lead to far-reaching and much-needed change, and in the process offer a national model of creative, collaborative reform.

29

**Carolina's 11th
chancellor is
a renowned
biologist, as well as
a champion for
access to a world-
class education.**

NOTE

When Carol L. Folt was installed as chancellor in October 2013, she said, “As America’s first public university, Carolina became the gold standard.

The founders passed the baton, and the future is up to us. How can we fulfill this honorable charge in a way that is ever fresh and relevant?”

Carol L. Folt is Carolina’s 11th chancellor and first woman leader. An internationally recognized scientist, award-winning teacher and innovative and accomplished academic leader, she has worked to fulfill that charge by championing Carolina as a great global public research university. Her priorities include expanding academic excellence, improving access and affordability, creating new opportunities for faculty and student innovation and entrepreneurship and building upon Carolina’s historic commitment to serving North Carolina and the public good.

As a scientist, Folt and her many students focus on the intersection between human health and the environment. Their pioneering work on the effects of dietary mercury and arsenic on human and ecosystem health have led to numerous changes in national and global policy and consumption advisories around the world.

One of the Chancellor’s top priorities is improving undergraduate retention rates—particularly for low-income, first-generation, underrepresented and non-traditional students. Folt leads the university in the national dialogue about issues facing higher education, inclusion and diversity, protecting students from sexual assault and promoting the advancement of women in STEM fields and academic leadership.

Carolina is among the top universities on the national cutting-edge research stage.

Carolina holds a leadership position among the nation's top research universities, and the pace at which its research portfolio grows continues to accelerate. Many examples abound to confirm this claim, but the University's growing list of national awards are being presented to early- to mid-level faculty, which means basic science and professional school and departments continue to demonstrate their powerhouse status in U.S. higher education. Recent examples include:

- Packard Fellowship in Science in Engineering (chemistry)
- Howard Hughes Medical Institute Faculty Scholar (HHMI) (biology)
- National Science Foundation CAREER awards (chemistry, physics and astronomy, math, information and library science, education)

The Packard and the HHMI awards, in particular, are important in supporting young faculty as they build their careers because of the generous funding streams now available to support their research and scholarly activities. For example, Packard recipients are generally viewed as being on the fast track to potentially win the Nobel, MacArthur or Lasker awards or fellowships.

This international recognition helps to attract superior new faculty talent now and in the future.

31

Carolina students are changing the world.

NOTE

In 2016, Carolina announced an 11th consecutive record for first-year applications – an increase of 12 percent over the last year and the second largest increase within the last 25 years.

Each year, about 18,000 undergraduate students call Carolina home. Of first-year students who enrolled in 2016, almost 80 percent ranked in the top 10 percent of their high school class. The range of accomplishment, drive and possibility from these students is extraordinary. Below are three examples of students extending their contributions beyond academic excellence into service of others.

Medical student Yousef Abu-Salha traveled to Turkey to participate in Project Refugee Smiles, a medical and dental clinic providing services to Syrian refugees. Yousef carries on the dream of his younger sisters, Yusor Barakat and Razan Abu-Salha, and his brother-in-law and best friend, Deah Barakat, who were murdered in Chapel Hill in February 2015.

Graduate student Charlotte Lane served as a Peace Corps Community Health volunteer in Burkina Faso, where she worked to combat child malnutrition.

The Helping Hand Project is run by a group of about 40 students who use 3-D printing to make prosthetic devices for children born without fingers. The group can make a prosthetic hand for about \$20—far less than the thousands of dollars the devices can otherwise cost.

EX LIBRIS

