An Academic Snapshot: Focus on Faculty

NYU owes its academic progress and momentum to the collective talents of its faculty, whose strength grows each year. The University’s marked improvement in academic standing reflects the commitment of our faculty.

Our faculty are the heart and soul of the University—leading academic initiatives, pioneering new research areas, introducing curricular and pedagogical innovations, and serving on faculty committees that are shaping the future of the University.

NYU’s strength starts with a faculty that can attract strong colleagues and is also enhanced by the University’s location in New York City, the creation of new schools and centers, the development of NYU’s global network, and the resources that NYU can invest in support of faculty.
OUTLINE

I. New Academic Units
II. The Global Network
III. Faculty and Academic Excellence
IV. Academic Synergy and Connectivity
V. Challenges and Opportunities
I. NEW ACADEMIC UNITS

• New schools and colleges
  – Institute for the Study of the Ancient World (FY08)
  – School of Engineering (FY14)
  – Faculty of Health (FY15)
    • College of Dentistry
    • College of Global Public Health (FY15)
    • College of Nursing (FY15)
• Two new research universities
  – NYU Abu Dhabi (FY10)
  – NYU Shanghai (FY14)
• The global network
Recent Timeline of New Academic Units

- **FY05**: Partners Plan established to invest in faculty in the arts and sciences.
- **FY06**: Nursing Division becomes College of Nursing within College of Dentistry.
- **FY07**: Liberal Studies (LS) migrates from SPS (then SCPS) to FAS.
- **FY08**: Institute for Study of the Ancient World (ISAW) enrolls first class of students.
- **FY08**: Poly affiliates with NYU as Polytechnic Institute of NYU.
- **FY10**: NYU Abu Dhabi opens with first class of faculty and students.
- **FY12**: Global Institute of Public Health (GIPH) is formed.
- **FY14**: Polytechnic becomes NYU’s School of Engineering.
- **FY14**: NYU Shanghai opens with first class of faculty and students.
- **FY14**: CUSP opens with first class of faculty and students.
- **FY15**: Faculty of Health is created, encompassing colleges of Dentistry, Nursing & Global Public Health.
Institute for the Study of the Ancient World (ISAW)

• Created by a major gift from the Leon Levy Foundation to NYU
• Doctoral and postdoctoral programs
• Undergraduate courses in College of Arts & Science
• Visiting fellows program
• Exhibitions and events
• Historic restored townhouse on New York’s “Museum Mile”

Established with gift to study antiquity across time and place

ISAW welcomes its first class

Full-Time Faculty: 13
(9 tenured/tenure track)

Students: 8 PhD
Tandon School of Engineering (Tandon)

Engineering returns to NYU after a 40-year absence

Poly renames itself Polytechnic Institute of NYU in recognition of formal affiliation with NYU

- Full-Time Faculty: 179 (100 tenured/tenure track)
- Students: 5,111
  - 2,286 Undergraduates
  - 2,565 Master’s
  - 260 PhD

Formal merger of Polytechnic School of Engineering and NYU

Historic $100 million gift, naming Tandon School of Engineering

FY08

January 2014

October 2015
Health Sciences
School of Medicine

(\textit{Medicine})

• Significant improvement in quality of research and educational programs
• Ranked #2 in New York State and #14 in the U.S. for research
• Innovative three-year degree program
• New and renovated research buildings for medical research
Health Sciences
Faculty of Health

• Creation of the Faculty of Health
  • Recommended by a working group of 26 faculty and deans
  • Supported by faculty governance groups and the University Senate
  • Approved by the Trustees in June 2015

• Unifies
  • College of Nursing
  • College of Global Public Health
  • College of Dentistry
College of Nursing

(Nursing)

By 2015, College of Nursing ranks #6 in *U.S. News & World Report*, up from #26 in 2009

Steinhardt Division of Nursing is reorganized as College of Nursing within College of Dentistry

College of Nursing becomes independent College within Faculty of Health

New home at 433 First Avenue

433 First Avenue housing College of Nursing, research and teaching space for College of Dentistry, and Bioengineering Institute

Full-Time Faculty: 69
(28 tenured/tenure track)

Students: 1,534
(858 BS, 606 MS, 70 PhD/DNP)
College of Global Public Health (CGPH)

- Offers 10 undergraduate majors, a handful of MPH tracks, a PhD and a fully online Advanced Certificate in Public Health
- Research affinity groups links CGPH with other schools and academic sites

Full-time faculty: 18
  (7 tenured/tenure track)

Students: 249
  (11 PhD, 238 MPH)

Established as interschool Master’s program
Established as Global Institute of Public Health
Established as independent school within Faculty of Health
College of Dentistry

(Dentistry)

- The third oldest and largest dental school in U.S.
- 1,900 students in pre- and postdoctoral programs from all over the U.S. and 40 foreign countries
- 735 full- and part-time clinicians and researchers
- Revitalization of College of Dentistry, rise to top 10 in research funding
- New research and teaching space at 433 First Avenue
NYU Abu Dhabi
(NYU AD)

Standing Faculty:
86 tenured/tenure track
146 additional full-time

Affiliated Faculty: 25

Post Docs: 68

Students: 870 Undergraduates
NYU Shanghai (NYU SH)

Research Institutes

- NYU-ECNU Institute of Mathematical Sciences
- NYU-ECNU Center for Computational Chemistry
- NYU-ECNU Institute of Brain and Cognitive Science
- NYU-ECNU Institute for Social Development
- NYU-ECNU Joint Physics Research Institute
- Volatility Institute
- Center for Global Asia

Standing Faculty:
- 29 tenured/tenure track
- 89 additional full-time

Affiliated Faculty: 7

Students: 841 Undergraduates

FY14

NYUSH opens with first class of faculty and students

First graduating class

FY17
New Degree Programs

Since 2001, 184 new degree programs, including
• BFA in game design
• MA in bioethics
• PhD in music technology
• MS in data science

Over 100 new dual degree programs since 2001, including
• BA/MPA in political science & health policy and management
• MA/MA in education & Jewish Studies
• MA/MFA in teaching dance
II. THE GLOBAL NETWORK

- NYU Madrid, 1958
- NYU Florence, 1969
- NYU Paris, 1995
- NYU London, 1999
- NYU Accra, 1998
- NYU Buenos Aires (reopened), 2004
- NYU Berlin, 2006
- NYU Tel Aviv, 2009
- NYU Washington, DC, 2012
- NYU Abu Dhabi, 2009
- NYU Sydney, 2012
- NYU Shanghai, 2013
Growth of Global Network

Unprecedented opportunity to create two new research universities, NYU Abu Dhabi and NYU Shanghai, each with significant research institutes.

In addition to longstanding European study away sites, new programs in Accra, Berlin, Buenos Aires, Sydney, Tel Aviv, and Washington, DC as well as Abu Dhabi and Shanghai.

Expansion of academic scope of study away beyond undergraduate education to include graduate student thesis work, faculty research, and freshman entry sites.

Since 2011, research-related activities for faculty and graduate students supported by the Global Research Institute (GRI) at select NYU sites.

Number of NYU undergraduates studying abroad for at least a semester doubled between 2002 and 2012.

NYU ranked #1 by Institute of International Education (IIE, 2014) for both number of students studying abroad and number of international students studying in New York.
III. FACULTY AND ACADEMIC EXCELLENCE

Growth in arts and sciences – 100 new faculty lines over a seven-year period – propels excellence at NYU (Partners Plan)

Development of the faculty throughout the University

Major awards and honors
• 4 Nobel Prizes since 2000 (three in economics and one in chemistry)
• 4 Abel Prizes (considered by many to be the “Nobel of Mathematics”)
• 2 National Medals of Science
• 1 National Medal of Technology and Innovation
• 4 National Humanities Medals
• 6 Pulitzer Prizes
• Over half a dozen Grammy Awards
• 14 MacArthur Fellowships
• 8 Howard Hughes Medical Institute Investigators

Elected Members of National Academy of Sciences
• 37 National Academy of Science
• 9 National Academy of Engineering
• 12 National Academy of Medicine

Elected Members of American Academy of Arts and Sciences: 68

View the scholarly awards and accomplishments of faculty here
Academic Rankings

NYU Overall
- #27, 2015 Shanghai Academic Ranking of World Universities, up from #55 in 2003
- #30, Times Higher Education’s 2015-16 World University Rankings, up from #60 in 2010-11
- #34 in the 2016 U.S. News & World Report ranking of global universities
- “Most Improved Reputation 2010-2014,” Thomson Reuters, 2015

NYU Schools
- College of Nursing: #6, U.S. News & World Report 2015, up from #26 in 2009
- College of Dentistry: #10 in NIH research funding in 2014, up from #16 in 2002
- Wagner School: #6, Public Affairs in U.S. News & World Report 2012 graduate school ranking, up from 19 in 2002
- School of Medicine: #2 in New York State and #14 for research in U.S. News & World Report 2016 Best Medical Schools, up from #34 in 2007
- Stern School: #5 Best Undergraduate Business Programs 2016, #11 in Best Graduate Business Schools, 2016 U.S. News & World Report
- School of Law: #6 in U.S. News & World Report 2016 Best Law Schools
Academic Rankings:
Some of NYU’s Programs in the Top 5
(Most Recent Rankings)

- Department of Philosophy #1, Quacquarelli Symonds (QS) World University Rankings by Subject (2015)
- Applied Mathematics #1, U.S. News & World Report’s Best Graduate Schools (2014)
- TSOA Cinema Studies #4, TheBestColleges.org 10 Best Film Schools In the United States (2015)
- TSOA Undergraduate Film & TV #2, USA Today’s America’s Best Colleges for a Major in Film (2014)
- National Research Council (NRC) Data-Based Assessment of Research-Doctorate Programs in the U.S. 2010 (Ranges within Top 5):
  - American Studies
  - Comparative Literature
  - Developmental Genetics/Sackler
  - German
  - Mathematics
  - Microbiology/Sackler
  - Performance Studies (TSOA)
  - Politics
Academic Rankings:

Programs/Areas in the Top 10
U.S. News & World Report’s Most Recent Rankings

- **Business School (Graduate):** Finance: #3, Part-Time MBA: #4, International: #6, Executive MBA: #7, Accounting: #8, Information Systems: #7, Marketing: #9, Nonprofit: #9
- **Business (Undergraduate):** Accounting: #9, Finance: #2, Insurance: #8, International Business: #2, Management: #6, Marketing: #3, Quantitative Analysis: #7, Real Estate: #6
- **Economics:** Development Economics: #9, Industrial Organization: #8, Macroeconomics: #4, Microeconomics: #9
- **History:** Women's History: #6, Latin American History: #9
- **Law:** Tax Law: #1, International Law: #1, Clinical Training: #4, Intellectual Property Law: #3
- **Mathematics:** Mathematics: #9, Analysis: #6
- **Nursing:** Nurse Practitioner: Adult/Gerontology, Primary Care: #2, Nurse Practitioner: Psychiatric/Mental Health, Across the Lifespan: #6, Nursing Informatics: #7
- **Occupational Therapy (Steinhardt):** #10
- **Political Science:** Political Science: #15, International Politics: #7, Political Methodology: #3
- **Psychology:** Behavioral Neuroscience: #9, Social Psychology: #9
- **Public Affairs:** City Management and Urban Policy: #2, Nonprofit Management: #5, Health Policy and Management: #8, Public Finance and Budgeting: #8, Public Management Administration: #9, Social Policy: #8
- **Sociology:** Sex and Gender: #6

Academic Ranking of World Universities:

- Broad Subject Fields/Social Sciences 2015: #8
- Subject Fields/Economics/Business 2015: #9
Research Expenditures

- Research expenditures at NYU totaled $181 million in 2014, up from $121 million in 2009

- Including School of Medicine: $467 million in 2014, up from $322 million in 2009
Innovation & Entrepreneurship

(NYU | Entrepreneurship)

- Berkley Center for Entrepreneurship and Innovation
- Innovation Venture Fund
- Entrepreneurial Institute
- Leslie Entrepreneurs Lab (Leslie E-Lab)
- Since 2001, 762 patents awarded to NYU (430 to School of Medicine)
- Since 2010, 46 startup ventures (21 from Medicine)
- Three incubators
Patents, Licensing and Startups

Since 2001, 762 patents were awarded to NYU (430 to School of Medicine).

In five years ending August 2014,
- NYU’s licensing revenue almost doubled, totaling $935 million (all but $13.7 million in Medicine)
- NYU launched roughly 50% more startup companies per research dollar expended than national university average

Between FY11 and FY15, NYU spawned 46 startup ventures (21 from Medicine).

Business Incubators hosted by Tandon School of Engineering

- Varick Street Incubator (2009)
- DUMBO Incubator (2012)
- Urban Future Lab (2014)
- Incubators established in partnership with NYC and NYS
- Incubators raised $145 million in equity financing and have “graduated” 51 businesses, creating 1,256 jobs and generating $352 million in economic impact
University Support for Faculty Research, Scholarship, Teaching, & Innovation

(University Funding Opportunities)

Supplements school support for new faculty start-ups, research and sabbatical leaves, incentive grant programs, etc.

- NYU Global Seed Grants for Collaborative Research New York-Abu Dhabi-Shanghai
- Curricular Development Challenge Fund
- Goddard Junior Faculty Fellowships
- Visual Arts Initiative Awards
- Global Public Health Research Challenge Fund
- Research Challenge Fund
- Whitehead Fellowships for Junior Faculty in Biomedical and Biological Sciences
- Center for Humanities (Grants-in-Aid, Faculty Research Fellowships, Team-Teaching Stipends, Research Collaborative)
- NYU Technology Venture Competition
- NYU Venture Competition
- Social Venture Competition
- NYU Innovation Venture Fund
- I-Corps
- Technology Acceleration & Commercialization (TAC) Awards
Categories of Full-Time Faculty

- Tenured/Tenure Track Faculty
- Full-Time Non-Tenure Track /Contract Faculty (Continuing Contract Faculty)
  - Governance rights approved by University Trustees (2014), defined in University Bylaws (2014), memorialized in Faculty Handbook (2014)
  - C- Faculty Senators Council established (2014)
  - University appointment guidelines promulgated (2015)
  - Multiple titles, privileges, and responsibilities that differ across schools and within schools
- Other Faculty, including faculty on visiting or nonrenewable appointments
Faculty Growth

- Significant expansion of the faculty in each school
- With the financial support of University Trustees through the Partners Plan
  - Focused on the faculty in arts and sciences - humanities and arts, social sciences, life and physical sciences
  - Growth by almost 20 percent between 2004 and 2010, the largest such expansion in NYU’s history
- Substantial growth of Full-Time Continuing Contract Faculty in a wide range of disciplines
Faculty Head Count, Fall 2005 to Fall 2015

Excludes School of Medicine
Investment in Facilities in Support of Academic Excellence

- Renovation and new construction for new and existing academic programs
- Approximately 1.8 million square feet added to NYU portfolio in the last 10 years

Growth and transformation
- Laboratories
- Classrooms
- Performance space
- Student resident halls
- Athletic space
- IT infrastructure
Among the major projects that transformed the face of NYU since 2001 are new homes for:

- School of Professional Studies (East 12th Street)
- Wagner Graduate School of Public Service (Puck Building)
- New concourse for Stern School of Business
- New York home for NYU Abu Dhabi (Washington Square North)
• Department of English (Greene Street)
• Department of Jazz Studies (Third Avenue)
• Department of Philosophy (Washington Place)
• Department of Linguistics (Washington Place)
• Department of Teaching & Learning (East Building)
• Media, Culture, & Communication (East Building)
• Department of Sociology (Puck Building)

In Washington Mews:
• Institute for African American Affairs (IAAA)
• Africa House
• China House
• Asian/Pacific/American Institute (APA)

Philosophy Department

Sociology Department
• Renovations to faculty laboratories in FAS and at Tandon School of Engineering (ongoing)

• Center for Genomics and Systems Biology (Waverly Place, 2011)
Renovated classrooms and study spaces in:

- Silver Building, Waverly Building
- Bobst Library
- Goddard Residence Hall, Rubin Residence Halls
- Global Center for Academic & Spiritual Life (WSS, 2012)
- Academic Resource Center (Washington Place, 2011)
IV. ACADEMIC SYNERGY AND CONNECTIVITY

A. Connectivity Across the Global Network

Going forward, academic development in New York and across New York-Abu Dhabi-Shanghai and encompassing NYU’s study away sites must be rooted in connectivity:

• Curricular planning
• Faculty recruitment
• Graduate admissions and training
• Research
Connectivity Across the Global Network

Curriculum
- Academic pathways that allow students to fulfill major requirements while studying in any of NYU’s locations
- Oversight of curricula by participation of New York, Abu Dhabi, and Shanghai faculty through site-specific advisory committees

Graduate Training
- Increasing alignment of graduate training (coordinated admissions and pathways for study) across New York, Abu Dhabi, Shanghai campuses

Faculty
- Coordinated process of searching, hiring, promoting, and tenuring full-time faculty at NYU New York, Abu Dhabi, and Shanghai
- Global Network Professor title

Research
- Research at Abu Dhabi Institute, allocated in peer-reviewed competition, for New York colleagues collaborating with colleagues in NYU Abu Dhabi
- 2015 NYU Global Seed Grants for Collaborative Research New York-Abu Dhabi-Shanghai
- Research at NYU-East China Normal University (ECNU) centers in mathematical sciences, cognitive sciences, physics, computational chemistry, volatility, and social development
Teaching and Conducting Research Across the Global Network

- An unparalleled range of international and multidisciplinary opportunities for research, teaching, and scholarly collaboration

- Visit Faculty in the Global Network page: a guide and information hub for faculty opportunities in research, teaching, and program development
B. Connectivity Through University-Wide Centers and Institutes

NYU tradition of University-wide academic units that exist outside school boundaries

- Traditionally, do not have their own faculty lines, do not offer degrees, do not offer courses independent of schools
- Bring together like-minded faculty from multiple disciplines
- Provide venues for collaborative research, discussion, workshops, conference, public outreach
- Host social gatherings that facilitate collaboration
- May offer competitive faculty fellowships and host visiting scholars
- Programming is typically jointly organized with NYU schools, departments, and/or external partners
Institutes and Centers

- Institute of African American Affairs (1969)
- New York Institute for Humanities (1976)
- Center for Humanities (since the 1980’s)
- Remarque Institute (1995)
- Asian/Pacific/American Institute (1996)
- Hemispheric Institute of Performance & Politics (1998)
- Center for Study of Gender & Sexuality (1999)
- Africa House (2002)
- China House (2006)
- Institute for Public Knowledge (2007)
- Center for Study of Transformative Lives (2011)
- Marron Institute of Urban Management (2013)
- Center for Ballet & the Arts (2014)
- Institute for Interdisciplinary Study of Decision Making (2014)
Institutes and Centers

Founded in Last Decade

- China House
  - Founded: FY06
- Institute for Public Knowledge (IPK)
  - Founded: FY07
- CUSP
  - Founded: FY12
- Bioengineering Institute
  - Founded: FY13
- Center for Ballet and the Arts
  - Founded: FY14
- Marron Institute of Urban Management
  - Founded: FY14
- Center for Data Science
  - Founded: FY14
- Institute for Interdisciplinary Study of Decision-Making (IISDM)
  - Founded: FY14
- Center for the Humanities
  - Founded: FY06
- Development Research Institute (DRI)
  - Founded: FY06
- Center for Study of Transformative Lives
  - Founded: FY11
- Media and Games Network (MAGNET)
  - Founded: FY14
- CUSP
  - Founded: FY14
  - Enrolls first class of students
- Institute for Public Knowledge (IPK)
  - Founded: FY07
  - Created with NYC award
New University-Wide Degree-Granting Centers

- Center for Urban Science & Progress (CUSP, first class is enrolled FY14)
- Center for Data Science (first class is enrolled FY14)
- MAGNET – Media & Games Network (opens its doors FY14)
Center for Urban Science and Progress (CUSP)

- Created by Mayor Bloomberg under NYC Applied Science Initiative
- A new kind of academic center that functions in collaboration with NYC
- Established as a consortium of universities and industry partners
- Awards MS in Applied Urban Science & Informatics (currently, 87 students)
- Long-term home under construction in downtown Brooklyn at 370 Jay Street (2017)
A major grant from the Betty Moore Foundation and the Alfred P. Sloan Foundation announced at the White House:

• Unites scientists and computer scientists to figure out better ways to handle scientific data, and to address structural barriers to the adoption of new methods and tools.

• A partnership of NYU with University of Washington and University of California at Berkeley

• A $37.8 million grant over five years

CDS Offers MS in Data Science with 4-semester and 3-semester options

Curriculum includes 50% electives in data science disciplines and domains from multiple schools
Media and Games Network (MAGNET)

Media and Games Network (MAGNET, 2013), a multi-school facility co-located with the Tandon School with faculty whose research and teaching bridge technology, culture, and the arts through the study of games. Degrees offered:

- By Tisch School of the Arts: BFA, MFA in Game Design
- By Tandon School of Engineering: BS, MS in Integrated Digital Media
- By Steinhardt School of Culture, Education & Human Development: MS in Games for Learning; MA in Digital Design for Learning; PhD in Educational Communication & Technology
V. CHALLENGES FOR NYU OVER THE NEXT DECADE

To continue to
• Build academic strengths...even with limited resources
• Build connectivity throughout NYU

Major challenges
• Increase financial aid toward costs of higher education at NYU
• Enhance diversity at NYU – faculty and student body
• Facilitate faculty engagement (through e.g., faculty advisory committees, Faculty Senators Councils, etc.) on University-wide decisions
• Right-size enrollment in graduate programs, with budget impacts
• Advance teaching and learning through technological innovations
• Strengthen cross-school programs in research and education