

NYUSH



Spring 2017

Magazine

**The
University
Goes
Transnational:
Preparation
for a
New World**

**Unravelling
the Brain's
Mysteries**

p14

For and about the
NYU Shanghai community



NYU Shanghai's Dean's Service Scholars take a break during a community project to build a playground for children in Guizhou Province.

2	News
5	What's Happening?
6	The Transnational University
11	Learning Through Service
14	Collaborating to Unravel the Brain's Mysteries
18	Looking to the Future, an interview with President Hamilton
20	Bridging Cultures through Art
22	Roommates

FROM THE PUBLISHER

Welcome to the debut issue of NYUSH, the magazine of NYU Shanghai that will tell the unique story of the first joint Sino-US research university to offer a comprehensive undergraduate liberal arts education.

Established in 2012, NYU Shanghai is the third degree granting campus of New York University's groundbreaking global network. Together with NYU's main campus in New York City and NYU Abu Dhabi as well as its 11 study-away sites in leading cities around the world, NYU Shanghai is increasingly recognized as a new model for transnational higher education (see cover story on page 6).

A university cannot thrive without the vitality and curiosity of its students, whose stories are present throughout this issue. NYU Shanghai students are outgoing and creative; they embrace new ways of learning and engaging with cultures other than their own. In four short years, our 1,200 undergraduates are already having an impact. They are competing in international challenges, picking up awards for innovation, publishing research, and earning prestigious scholarships.

At the heart of the university are our international faculty. Their expertise and willingness to innovate is leading NYU Shanghai to establish itself as an important

research university. Our feature on pages 14 to 16 shines a spotlight on the NYU-ECNU Institute for Brain and Cognitive Science at NYU Shanghai, a pioneering model for cross-disciplinary and international collaboration.

Published three times a year, NYUSH aspires to be a must-read about the university for faculty, students, staff and very soon for our future alumni, following their history-making graduation in May. Ultimately, we aim to inform audiences beyond our own scholarly community, with its distinctive dual-identity.

NYUSH is available online in Chinese and English at shanghai.nyu.edu/magazine, a site that will develop over time as new multimedia and features are added. We hope you enjoy this issue, and welcome your feedback and your contributions.

Tommy Bruce
Publisher

WRITE TO US

Do you have a suggestion or a story you would like to share for our special Graduation issue this summer? Let us know at shanghai.magazine@nyu.edu.

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CONGRATS

NYU Shanghai Students Selected as Schwarzman Scholars for Study in China

Two NYU Shanghai students have been selected as 2018 Schwarzman Scholars, an honor that will support master's degrees at one of China's most prestigious universities.



Roxanne Roman and Jacko Walz

Seniors Roxanne Roman and Jacko Walz were among 129 students chosen for the highly selective program at Tsinghua University in Beijing. Inspired by the Rhodes Scholarship, which was founded in 1902 to promote international understanding and peace, the Schwarzman Award is designed to meet the challenges of the 21st century by educating students about China's expanding role in the world.

Roman, a social science major, will be pursuing studies focused on public policy, while Walz, who is majoring in business and finance plans to pursue a concentration in international studies.

Computer Science Students Publish Research

Five NYU Shanghai undergraduate students have had their Computer Science research papers accepted by international conferences.

Class of '17 students Che Wang, Cameron Ballard, Kelvin Liu, Carson Nemelka, and Yanqiu Wu were invited to present their papers at the highly competitive Annual AAAI Conference on Artificial Intelligence in San Francisco and the ACM Internet Measurement Conference in Santa Monica, which have acceptance rates between 14 percent and 25 percent.

Wang's research, co-authored with academics at NYU's Tandon School of Engineering in New York, details how Portfolio Online Evolution, an evolutionary planning algorithm, "based on and inspired by natural selection," could outperform previous AIs in the combat video game StarCraft.

Meanwhile, experiments by Ballard, Liu, Nemelka, and Wu carried out under mentorship of NYU Shanghai professor Keith Ross successfully demonstrated how anonymous message apps such as Yik Yak—popular on university campuses in the U.S.—were "susceptible to localization attacks." One of their experiments determined which university dorm building a 'yak' came from with 100pc accuracy.

CURRICULUM

New courses nurture creativity and connect global campuses

New curricular offerings for 2017 focus on innovation and on strengthening links with the NYU network.

Students can explore different aspects of creativity in the following new classes: Entrepreneurship Explored, Innovation Shenzhen Style, Design Thinking, Creativity Considered, and The Design Sprint: Modern Ageing and the Future of Health.

"Now, more than ever, creativity—be it in entrepreneurship or art, technology or science—plays a critical role in education", says Professor Brandenburger, director of NYU Shanghai's Program on Creativity + Innovation. "The world needs new knowledge urgently. Helping students learn how to create their own new knowledge and meanings will prepare them to find solutions to some of the big

challenges of our time, and help them throughout their lives."

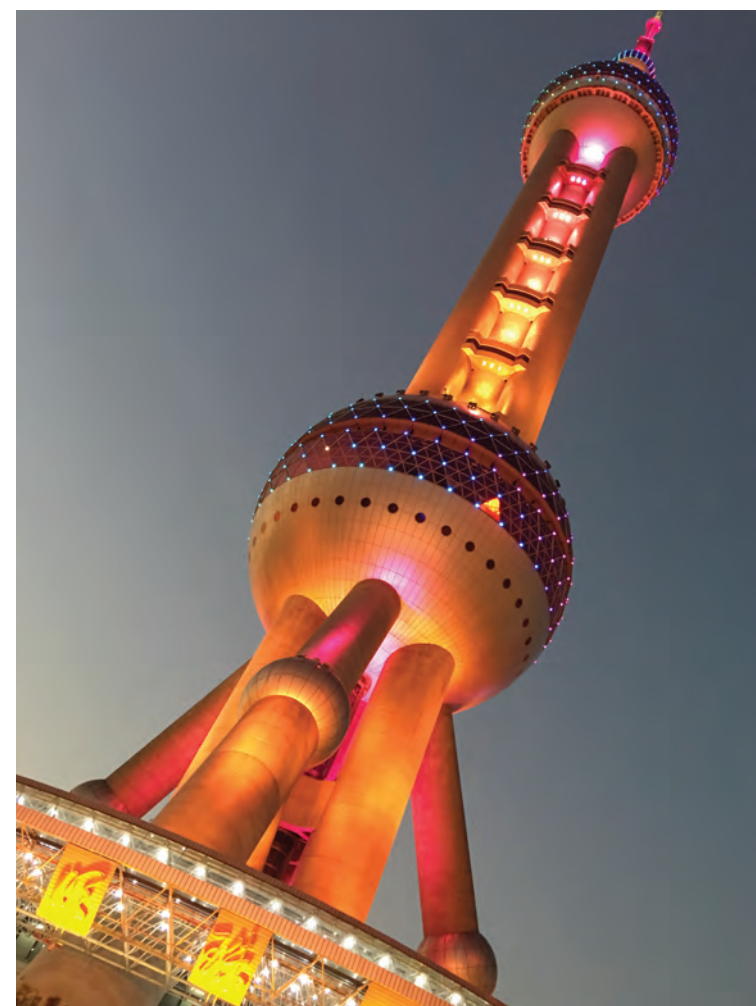
Students studying around the globe now also have access to more NYU Shanghai courses online. Subjects offering online courses include business, interactive media arts, social science and Chinese language.

COMMENCEMENT

Pearl Tower to Go Violet for NYU Shanghai Graduates

NYU Shanghai has partnered with Shanghai's Oriental Pearl TV Tower to light the iconic city landmark violet in honor of the university's first graduating class.

On Saturday, May 27, the eve of NYU Shanghai's inaugural Commencement Exercises, the Pearl Tower will be illuminated in NYU's colors.



The display will echo the tradition in New York to light the Empire State Building violet for NYU students graduating from the university's New York campus.

Built in Pudong opposite the Bund in the 1990s, the Pearl Tower was China's tallest building until 2007. It has become a symbol of Shanghai and one of its most recognisable buildings. The lighting of the tower will officially kick off a weekend of celebrations, culminating in the commencement ceremony on Sunday. Close to 300 graduates will walk across the stage at the Shanghai Oriental Arts Center against a backdrop of the city and receive their NYU diplomas from the Chancellor. For friends and family unable to attend, there will also be a live webcast of the event.

Stay up-to-date with commencement preparations at commencement.shanghai.nyu.edu

PUBLIC HEALTH

New Research Center to Study Global Health

NYU Shanghai's newest research center deals with a fundamentally human problem: the impact of illness and other forms of suffering on our daily lives. The Center for Society, Health, and Medicine will promote the humanistic study of health and medicine.

"What this means in practical terms is that we're open to multiple perspectives on health and healing that don't necessarily use a biomedical framework as their starting point," says director Todd Meyers, who teaches Anthropology at NYU Shanghai.

The Center will host its first workshop this February, as well as a series of public lectures on the global history of medicine with an exciting group of scholars from New York University, McGill University, Johns Hopkins University, University College London, and more.

Find out more at research.shanghai.nyu.edu/cshm



Courtesy Hyperloop One

Transport of the future: Hyperloop One considers China route as construction starts on first tunnel in UAE.

RESEARCH

Business

The Center for Business Education and Research at NYU Shanghai has established a joint research lab with China UnionPay, the world's largest payment network. The agreement gives researchers access to data from the company, which handles more than 14 billion transactions a year.

Global Asia

The Center for Global Asia at NYU Shanghai has been granted funding from Volkswagen Foundation to deliver a series of three interconnected summer schools for doctoral and early career researchers on the topic of "The Indian Ocean World and Eurasian Connections," in collaboration with the Martin Luther University in Halle-Wittenberg, Germany.

Artificial Intelligence

Web retail giant Amazon has chosen open-source deep learning framework MXNet (mxnet.io), co-founded by Professor Zhang Zheng with developers from leading global universities, to guide its deep learning strategy. NYU Shanghai Computer Science students are among the contributors to follow-up project MinPy (minpy.readthedocs.io), soon to be released in beta mode.

Online Privacy

A popular European law used by millions to delist undesirable results from Google and other search engines may not be as effective as thought. Professor Keith Ross uncovered a loophole that puts individuals on delisted news webpages at risk of identification.

COULD HYPERLOOP COME TO CHINA?

A business case proposal by NYU Shanghai students to build a hyper-speed ground transportation system between Shanghai and Hangzhou has been shortlisted in a global competition that could pave the way for the first hyperloop network in China.

The hyperloop is a bold idea to revolutionize long distance transit by propelling a pod down a tube at speeds up to 620mph. Pioneering transport company Hyperloop One is already testing the technology needed to make it a reality and the search is on to find the perfect locations for the first networks.

The NYU Shanghai research team—made up of 15 undergraduates—surpassed competition from 2,600 worldwide site proposals to be among 35 semi-finalists. They are the only team from China to make the cut.

Assessing their chances of selection, Bradford Sunderland '19, the project's Research Lead said they had put together a strong bid that considered economic projections, calculated environmental benefits, and even examined social implications. A final decision is expected in March.

WHAT'S HAPPENING?

75

ACADEMIC TALKS,
SCREENINGS, AND EVENTS



Amitav Ghosh



Marilyn Chin



Samuel Alito

It's been a busy semester at NYU Shanghai as the university increased its events program to welcome more than 60 guest speakers—among them U.S. Supreme Court Justice Samuel Alito, Nobel laureate for economics Robert Engle, American writer Gish Jen, Indian author Amitav Ghosh and Chinese Olympic swimmer Ning Zetao. Here's what to expect in 2017:

84

RESEARCH
CONFERENCES,
WORKSHOPS,
AND SEMINARS



Ning Zetao

FEBRUARY 27

NYU neuroscientist Tom Carew explains **HOW MEMORIES ARE FORMED.**

MARCH 15

MUSIC, DATA & THE BLOCKCHAIN: A DIGITAL UTOPIA?

Industry expert Larry Miller examines the future of the music business.

MARCH 29

Ni Shixiong, professor of international relations at Fudan University, assesses **TRUMP'S FIRST 60 DAYS.**

MAY 6

NEW YORK WILD FILM FESTIVAL comes to Shanghai with screenings and panel discussions about exploration, wildlife and conservation with leading documentary filmmakers.

Visit shanghai.nyu.edu/events for more details and full event listings

100+

STUDENT CLUB
ACTIVITIES

BOOKSHELF

The NYU Shanghai Literary Series returns with writers including Def Poetry Jam star **REGIE CABICO**, poet **MARY-SHERMAN WILLIS**, and more. Language Lecturer David Perry recommends three works from this semester's visiting authors:

- **JAMES BRADLEY**'s new 'cli-fi' novel *Clade* imagines the multi-generational struggles of a family dealing with life on an Earth catastrophically transformed by climate change and cascading crises.
- *Death of a Red Heroine* is the award-winning first novel in **QIU XIAOLONG**'s detective fiction series. Set in Shanghai during the 1990s, it features Inspector Chen, a rising party cadre given to framing his investigations in terms of classical Chinese literature.
- Watch artist **JEN BERVIN** create her nano-poems on liquified silk: <https://vimeo.com/167124493>

See shanghai.nyu.edu/lit-series for schedule

PUDONG LIBRARY LECTURES

A series of public lectures delivered in Chinese by NYU Shanghai faculty has been so popular that the program at Shanghai's Pudong Library has been extended into 2018. Upcoming talks include how mathematics explain the world; genome and cancer research; and identity and culture of the Chinese diaspora in Southeast Asia.

Find out more at pdlib.com

15

ATHLETIC
MATCHES

The Transnational University

by Susan Salter Reynolds

From the moment NYU Shanghai opened its doors in 2013, faculty, students, administrators, and the public knew that this university would be different—an audacious educational start-up that would fuse the global achievements and ambitions of its two partner universities—New York University (NYU) and East China Normal University (ECNU).

Three years later, the first class is preparing to graduate—the first beneficiaries of the school’s innovative, cosmopolitan approach to undergraduate education. Ten research institutes are generating collaborative, cutting-edge research in their fields. And more than 200 articles have already been published in internationally recognized journals.

With 1,200 students and 170 faculty members, the university is well down the road to its long-term targets of 2,000 undergraduate

students and 250 professors. The next focus will be on expanding the masters and doctoral programs.

The success of NYU Shanghai’s original model is already sparking reflection at top institutions of higher education around the world.

The Model

Of the 300 students in each class, 151 are from 31 provinces China, and 149 hail from more than 60 countries. Classes are taught in English, but all non-Chinese students must learn Chinese. Students spend their first two years in Shanghai, their third year on one of NYU’s other campuses around the world, and their fourth year back in Shanghai, where they will graduate. Students may not choose a major until their second year.

The university is not divided into traditional schools and departments. Faculty members have all achieved distinction in a traditional discipline, but their intellectual interests transcend disciplinary boundaries. As a result, some majors, like mathematics, are very familiar, while others, like Interactive Media Arts, blend multiple methodological traditions. All first-year students are required to take Global Perspectives on Society, which explores political philosophy, economics, sociology, and intellectual history from multiple cultural perspectives. A foundational course in science combines biology, chemistry, and physics.

In addition, new programs like the Center for Global Asia and the Program

on Creativity and Innovation have stimulated faculty to develop provocative new courses like Choreography and Virtual Reality; Food and Enlightenment; and Neuroscience and Social Justice.

Vice Chancellor Jeffrey Lehman has been a leader in the changes to global higher education over the last several decades. Before joining NYU Shanghai, he served as Dean of the University of Michigan Law School, as President of Cornell University, and as founding Dean of the Peking University School of Transnational Law. In each role, he stressed the importance of preparing students to be effective when crossing national and cultural boundaries. “This is a special time in the world of higher education,” he says. “Globalization, information and communications technologies, and the reengagement of China with the world have all changed what today’s students need; they have also given us exciting new ways to meet that need.”

“THIS IS THE MOTHER OF ALL EDUCATIONAL START-UPS.”

Chancellor Yu Lizhong was President of the East China Normal University from 2006 to 2012, before becoming Chancellor of NYU Shanghai. He agrees. “The world is changing so rapidly. We have an obligation to help our students understand this new world. This is especially important for Chinese students. In the last 30 years, the Open Door Policy in China has created many more connections between China and the world. Our kids are interested in the world in new ways. But it is not only information they seek. They can read textbooks for that. They need to experience other cultures firsthand.”

2006

NYU Study Away site established in Shanghai

2012

NYU Shanghai founded

2013

First undergraduate students begin their studies at NYU Shanghai

2017

Inaugural commencement ceremony will be held on May 28



Vice Chancellor Jeffrey Lehman

“This is the mother of all educational start-ups,” says Professor Eitan Zemel, Associate Vice Chancellor for Strategy at NYU Shanghai, and Vice Dean of Global and Executive Education at NYU Stern. “It’s a first—so big, so audacious, and so complex. It is, for all of us, a professional paradise.”

For the students and faculty embarking on this new venture, NYU Shanghai offers a cosmopolitan approach to liberal education, as well as state-of-the-art research opportunities. “We want our students to feel comfortable all over the world, and we consider this an important part of an educated person’s skill set,” says Professor Zemel.

Why Now?

This kind of university would of course not have been possible 50 years ago. Over the past half century, the destinies of the U.S. and China have converged, even as the digital revolution furnished new ways of gathering and imparting data. Much has been discovered about how best to facilitate student learning. “It is natural,” reports Vice Chancellor Lehman, “that

students and faculty would both be drawn to an institution that is not static but flexible and responsive to changes in technology, pedagogy, and global economic realities.”

NYU Shanghai embodies a number of changes for the world of Chinese higher education. These changes range from the admissions process, to an educational philosophy steeped in the values of liberal education, to a pedagogy of “active learning.”

“For the Chinese students,” explains Chancellor Yu, NYU Shanghai’s admissions system represents an alternative to the *Gaokao* model. Chinese students must still take the *Gaokao* before applying, but once they are here, it’s a completely different evaluative process. Rather than being assessed solely by exams, students are evaluated on their performance, their creativity, their interactions with their peers and the faculty. And they are learning all the time—with their English-speaking roommates, in the clubs they’ve joined, and in their research.

“The teaching style is also very different,” says Chancellor Yu, “from traditional Chinese teaching, in which professors impart information to the students. This is far more active—there is discussion, debate, and an emphasis on critical thinking. This can be a challenge for Chinese students.”

Faculty at NYU Shanghai have the opportunity to team-teach courses such as Philosophy and Technology, and Neuroscience and Economics. The curriculum is designed for intellectual cross-pollination, a trend in higher education in both the U.S. and China. Joanna Waley-Cohen, Provost and Julius Silver Professor of History at NYU Shanghai, helped design the curriculum at NYU Abu Dhabi and at NYU Shanghai. “It’s wonderful to work on a clean slate,” she says. “You can do something new without 55 committee meetings!”

“We’ve built and adjusted our curriculum to meet students’ needs and desires, with new majors such as one currently in preparation that combines Interactive

Media Arts with Business so that students can both learn business basics and follow their hearts.”

Interdisciplinary and International

NYU Shanghai is well positioned to contribute to new fields that are emerging from the interactions among older academic disciplines. Consider, for example, computational neural science. ECNU has a strong research tradition in the cognitive sciences. And NYU has been at the forefront of studies in artificial intelligence. Faculty associated with NYU Shanghai are collaborating to explore new ways to model and understand the brain. (For more, see “Collaborating to Unravel the Brain’s Mysteries,” p.14)

“ALL OUR STUDENTS ARE CREATIVE AND RESILIENT; THEY HAVE THEIR OWN IDEAS ABOUT HOW THEY WANT TO SHAPE THEIR FUTURE.”

This kind of multinational, multidisciplinary collaboration is becoming more and more the norm. So many of the problems we face today, explains Vice Chancellor Lehman, affect the entire world and require expertise in many different disciplines. Professor David McLaughlin, former Provost of New York University and Chief Science Mentor at NYU Shanghai, agrees. “Today, a truly educated person must be both interdisciplinary and international.”

New courses, like the first year, *Global Perspectives on Society*, or *Where the City Meets the Sea*, or the combined Physics, Biology, Chemistry class are all examples of the cross-disciplinary foundation NYU Shanghai has

created in the last four years. “By the spring of freshman year,” reports Provost Waley-Cohen, “you can see the light bulbs turning on.” “Creativity is now a measure of greatness,” says Provost Waley-Cohen. “If we can help students bring seemingly disparate elements together in new ways, we’ll be helping them to develop an important skill for today’s world.”

Dream-Building

Vice Chancellor Lehman speaks about how gratifying it has been to see truly gifted teachers take a leap of faith and come to NYU Shanghai, to participate in what he calls “dream-building.” “We’ve built a very strong faculty base in Shanghai,” says Professor McLaughlin, taking advantage of “a high degree of connectivity with NYU’s New York campus.” “This is a tremendous opportunity for faculty,” says Professor Zemel. “The impact they can have in China is so much bigger than the impact they can have in the U.S.”

Chancellor Yu Lizhong





Photo: Frank Su Huang

At NYU Shanghai there is an emphasis on discussion, debate and critical thinking and a pedagogy of 'active learning'

NYU Shanghai's leaders feel the same way about the students who have helped to build a new university. Provost Waley-Cohen remembers the first day the university opened in 2013. The faculty gathered to meet the students. "Do you think anyone will show up?" she recalls asking a colleague. All breathed a sigh of relief at the sight of the first student. "I am proud," she says, "of the slow, steady way we have grown."

Chancellor Yu admires the pioneering first cohorts of students. "They know what they want from the world. And it is not always money. The local community loves these students. They say they are self-directed, motivated, and hard-working."

"NYU Shanghai has brought a new energy to education," says Chancellor Yu. "American students may be used to this energy, but for Chinese students it is quite new."

"I have a student who is graduating this year," Chancellor Yu recounts. "She did an internship with a bank and they love her. They would hire her. When I asked her what she wanted to do, she didn't mention money or location. She told me she hoped to find a job that would interest her and make her happy. 'This is something I learned at NYU Shanghai,' she said. This makes me very proud of the work we have done here."

Impact and Adventure

NYU Shanghai's leaders are looking forward to the school's continuing growth and development. They expect to build more graduate programs in partnership with NYU's New York campus. And they expect to broaden and deepen their linkages with Shanghai and with China.

"China's economy is shifting from infrastructure and exports to more domestic consumption," says Vice Chancellor Lehman. "They will have to build a welfare state and improve their financial infrastructure. NYU has spectacular scholars who can help the Chinese government make these changes."

"You aren't given the opportunity to start a research university from whole cloth more than once in a lifetime," says Professor McLaughlin. "All of us who have had the opportunity to be part of this adventure think of it as a great privilege."

COLLOQUIUM ON LIBERAL ARTS:

Scholars and commentators are invited to join us on March 10-11 for a convention exploring how the liberal arts are being adopted in new global contexts, with a specific focus on China. To RSVP visit shanghai.nyu.edu/events.

LEARNING THROUGH SERVICE

In a city of 24 million, cultivating community may seem daunting, but through outreach and service projects, NYU Shanghai's budding global citizens are able to broaden their experiences, explore China's rich cultures and diverse landscapes, and have a positive impact locally and across China.

For students taking part in the Shanghai Special Olympics Unified Run this fall, this meant joining together literally with pupils from Shanghai Pudong Special Education School (PSES) as they trained for the annual international synchronized three-legged charity race.

Describing how she bonded with her partners from PSES over the two months, freshman Greta Solomon said: "Even though we do not speak with each other in the same language, we can smile at each other and know that the other understands."

Beyond the city, students enrolled in the university's Deans' Service Scholar (DSS) program have taken part in wetland conservation at Dalian Lake, taught English language classes at schools in Hunan, assisted families living with HIV in Henan, and contributed to reforestation efforts in Yunnan.

As well as continuing NYU's long-term tradition of service, the benefits of volunteering in China are mutual. "Whether it's mentoring a child, teaching English to immigrant children, building a home, or spending time with an elder, one is better able to understand the complexity of important social issues, foster empathy for others and develop self-efficacy for making positive change in the lives of others through service," said Adam Ebnet, Director of Student Life.

GET INVOLVED:

Visit shanghai.nyu.edu/community to find out about the latest volunteering opportunities, or email shanghai.involvement@nyu.edu.



1,460 steps scaled by NYU Shanghai runners in a race to the 57th floor of the International Finance Center in Lujiazui to raise money for the Shanghai Children's Health Foundation

100 computers and printers donated on Thanksgiving to Shanghai's Mingzhu Lingang Primary School to support the pupils' IT education

15 seconds it took a team of 11 NYU Shanghai volunteers and pupils from Pudong Special Needs School to sprint 30 meters with their legs tied together for the Unified Run challenge

38 students enrolled on the Dean's Service Scholars outreach program in 2015/16

Photo: Nicole Chan



NYU Shanghai students show their natural boldness in their decision to attend a brand new institution. They grapple with new modes of learning; absorb unfamiliar concepts; and come up with new ideas and fresh solutions to old problems. I applaud their inventiveness, their entrepreneurial spirit, and their productive embrace of the spirit of experimentation. This is the essence of the creativity and innovation that epitomizes NYU Shanghai.



Joanna Waley Cohen, Provost

NOFAR HAMRANY '18 | THE CAMPAIGNER

Economics major, President of Green Shanghai, and Co-founder of GoGreen Week

Growing up in Israel, I was used to recycling and seeing solar panels on every house. When I looked at environmental issues in Shanghai, I first thought I couldn't make much of an impact—how could I change the entire sky? Walking around Lujiazui, I saw a tiny girl with a Hello Kitty mask and it left a great impression on me.

When I became president of Green Shanghai, we worked with the Animal Rights and Herbivores Society group on a simple 'go vegan' challenge for GoGreen Week. That later expanded to attract a variety of interests—from fashion with recycled materials to green careers and sustainable businesses. The event is now an official fixture on all NYU campuses, involving academics, local businesses, artists and film-makers. We also started an urban garden.

As an economics major, I focus on sustainable development in economics. In the future, I plan to become involved in solving the Israel-Palestine conflict by helping to



develop economies in the Middle East in a sustainable and ecological way, especially in Palestinian Authorities.

Nofar was awarded the Catherine B. Reynolds Foundation Fellowship Award for social entrepreneurship in the greater NYU community and the Leadership in Clean Energy and Sustainable Solutions Award for inspiring innovation, change, and action in the clean energy and sustainability arena.

IVAN MARKS '17 | MASTER IN SHANGHAINESE

Global China Studies and Chinese major

Before coming to NYU Shanghai, I'd lived in New York my entire life. I became interested in China and learning Chinese in high school, so I decided to study abroad.

After three years here, I'm pretty much fluent in Chinese. To challenge myself, because I genuinely love learning languages, I started picking up Shanghai's local dialect. I practice any chance I get. On campus, I chat with the security guards, many of whom are local Shanghainese. The key to learning any language is practice and fearlessness. I speak Chinese as much as possible—whether at a restaurant ordering food or going somewhere on the subway, I force myself to initiate talking with waiters or strangers. My advice is

never be afraid of making mistakes. Of course, being an extrovert definitely helps!

I originally wanted to learn Chinese because my father told me it would open up many job opportunities, but after coming to China I changed my motivation. I like communicating with people and want to learn more about Chinese culture.

Ivan won first place at the 2016 Shanghai Dialect Showdown, a city-wide competition to raise awareness of and help preserve the language. His performance with a local comedian on new interpretations of Chinese idioms was a big hit and local media declared Ivan's Shanghai dialect more fluent than many residents'.



Courtesy Shanghai Daily

XIAOYUE GONG '17 | SOCIAL ENTREPRENEUR

Honors Mathematics and Interactive Media Arts major

I came to NYU Shanghai with a passion for engineering and arts, and found a true love in mathematics after being inspired by wonderful professors. In the Interactive Media Arts course, Rapid Prototyping, with Professor Matthew Belanger, I devised a smart indoor air-purifying system to monitor and purify poor air strategically. This has since morphed into a social venture, Aeolian(Aeo), which won the 2015 NYU Reynolds Changemaker Challenge Best Overall Venture.

Aeolian(Aeo) combats the severe health effects of indoor air pollution by building an air monitoring network, and an app to provide access to air quality information, empowering and providing a significantly wider range of the population with access to clean air.

Gong Xiaoyue also won recognition for her efforts in social venture at the United Nations' 2016 Youth Assembly and from VentureWell's E-Team Grant Program.



Courtesy NYU Reynolds Program



Winning team (Left to right): Zijie Lu, Wentao Wang, Qi Huang, Xincheng Huang, and Yilun Li

QI HUANG '19 | CREATIVE BUSINESS THINKER

Business & Finance and Data Science major

For our first hackathon experience, my team of fellow sophomores designed and developed an "off-grid" toilet—which works without connection to water or electricity networks—for leading bathroom brand Kohler and NGO Collective Responsibility. We were the youngest students in the competition with the least experience in design, engineering

or sanitation going up against graduate students from some of China's top universities, but our concept, which included a sustainable business model that addressed maintenance and availability, won.

It was exciting to generate a business idea that a company like Kohler could implement. At hackathons, where you

must come up with a solution to a problem in a short amount of time, it is important to be able to work together and think creatively.

Qi Huang won first place in the Kohler 24 Hour Sustainability Hackathon in November with his team-mates Yilun Li, Zijie Lu, Xincheng Huang and Wentao Wang.

Collaborating to Unravel the Brain's Mysteries

by Susan Salter Reynolds

The NYU-ECNU Institute for Brain and Cognitive Science at NYU Shanghai, a new research collaboration with an innovative approach, is poised to have a global impact in the race toward understanding the brain.

Dr Xiao-Jing Wang, Associate Vice Chancellor for Research and co-director of the Institute came to NYU Shanghai from Yale. “Even at places like Yale,” he says, “it’s not always easy to fully realize cross-disciplinary research and education. We had a unique opportunity to build a research university from a ‘whole cloth’ at NYU Shanghai, and in just four short years we have created ten institutes across traditional departmental boundaries.”

Among these, the NYU-ECNU Institute for Brain and Cognitive Science at NYU Shanghai was founded to connect NYU’s exceptional prominence in neuroscience and East China Normal University’s (ECNU) long tradition in Cognitive Psychology and Brain Research. Together, they aim to advance neuroscientific understanding of cognition, which includes decision-making, learning and memory, human language, as well as artificial intelligence.

Neuroscience is growing each day as new technological tools enable researchers to gather big data of all kinds. “Understanding the complex brain circuit across scales requires collaboration,” says Dr. Wang. “With our combined expertise in experimental and computational neuroscience, we aspire to make special contributions to the field.”

The Global Imperative

The rise in poorly understood brain disorders around the world has been compared to global warming—a global problem that will require the kind of transnational collaboration Dr. Wang often alludes to. “It takes the world to understand the brain,” he quotes from a recent article in the journal *Science*.

International players include President Obama’s \$300 million White House Brain Initiative, launched in 2013, which

supports “the development and application of innovative technologies that can create a dynamic understanding of brain function” (<https://www.whitehouse.gov/BRAIN>). Also in 2013, Europe launched the \$1.6 billion Human Brain Project. Japan’s Brain Mapping by Integrated Neurotechnologies for Disease Studies (Brain/MINDS) program started in 2014, and is focused on mapping the brain of a small new world monkey, the common marmoset.

One Body, Two Wings

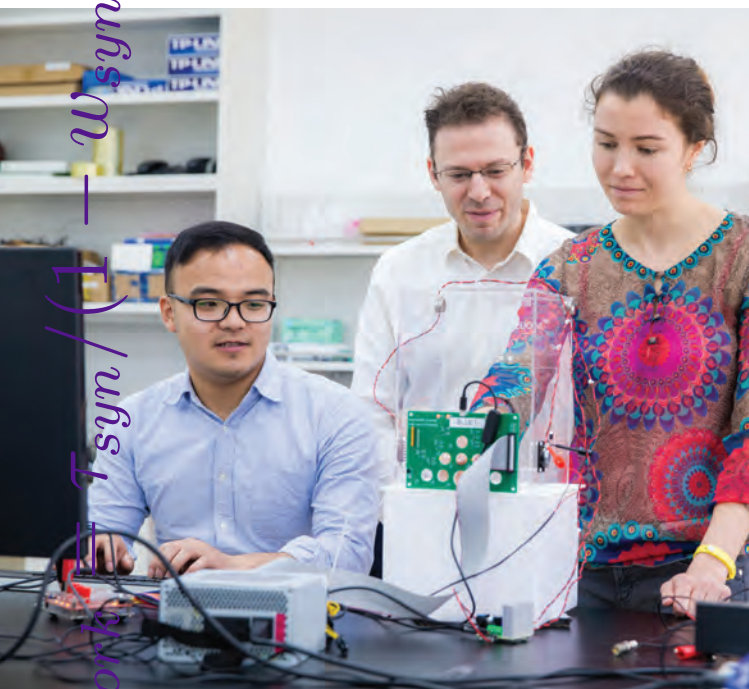
The China Brain Project is expected to begin in 2017. “‘One body, two wings,’ describes the plan,” says Dr. Wang. The main “body” will be basic research on the neural basis

of cognitive functions. The “two wings” are applications of fundamental advances to diagnoses and therapies for major brain disorders and brain-inspired intelligence technologies (A.I.).

Researchers and institutes around the world have taken on different unknowns—pieces of the puzzle with different priorities. For a long time, explains Dr. Wang, “neuroscientists were mostly interested in sensation and movement. Recently, the focus has shifted to cognitive processes, between our senses and motor acts. This is one of the most mysterious parts of the human brain.”



Dr. Xing Tian and Dr. Qing Cai set up an electrode cap to study the brain mechanisms used in perception, action, and language.



Dr. Jeffrey Erlich (center) reviews the results of a behavioral test at the research lab.

$$\sigma^2 = \sigma^2 + \sigma^2 = 2\sigma^2$$

$$C \frac{dV_m}{dt} = -G_L(V_m - V_L) + I$$

$$p(A|s) = \frac{p(A, s)}{p(s)}$$

$$h = \left(1 - \frac{1}{n}\right)$$

Why Math to Understand the Brain?

Dr. Wang is a computational neuroscientist. “I develop theory and build computational models of neural circuits to help make sense of data, look for general principles, and come up with predictions,” he explains. Theorists like Wang work closely with experimentalists to design experiments that bridge neurobiology and psychology. This approach, by its very nature, is collaborative and cutting-edge. Computational neuroscience is new in China, and a center like, the NYU-ECNU Institute for Brain and Cognitive Science at NYU Shanghai focused on the neural basis of cognitive functions, is rather rare.

“This distinguishes us from other institutes in China.”

Dr. Wang walks a listener through sixty years of neuroscience in less than 10 minutes: how neurons communicate using electrical signals, and how these signals convert into chemical transmission at the site of neural connections called synapses. These signals and interactions can be described by mathematical

equations. With newly gained knowledge about the “brain’s wiring diagram (the brain connectome),” it is possible to build models to describe neural circuits. “The wiring between the neurons in each of our brains,” says Dr. Wang, “would stretch about half of the distance between the earth and the moon!” “These days,” Dr. Wang laughs, “everything is about the connectivity and dynamics of networks!”

“At NYU Shanghai, we are building a computational platform for computer simulation of large-scale brain circuits that everyone can use. But it is more than a platform,” he says. “It allows researchers to come up with ideas they can test, with the ultimate goal of generating general principles that have predictive power in neuroscience, just like Newtonian laws of Physics. Moreover, we can use discovered mathematical algorithms to develop artificial intelligence. This is why computational neuroscience serves as a critical bridge between neuroscience and Artificial Intelligence (A.I.)”

$$(I)f\lambda(s - 1) + sL/s - = \frac{tp}{sp}$$

未来(科学)论坛 – 脑科学与人工智能

The Future Science Forum - Brain Science and Artificial Intelligence



Dr. Xiao-Jing Wang, Associate Vice Chancellor for Research at NYU Shanghai, delivers the keynote speech at the 2015 Pujiang Innovation Forum.

Wang’s enthusiasm is echoed by Jeffrey Erlich, an Assistant Professor of Neural and Cognitive Sciences at NYU Shanghai. He came from Princeton and McGill Universities. “This was a real opportunity,” he says. At NYU Shanghai I get all the benefits of the fantastic neuroscience program at NYU, and I can be a big fish in this new pond in Shanghai!”

The faculty in neuroscience at NYU Shanghai are truly cross-disciplinary, with training in physics, engineering, mathematics, and computational science. Erlich says: “The people who work here are describing this unfolding story mathematically. They are laying the foundation for a new language, a common language.” Coming from an experimentalist, the words are evidence of a sea change in the biology of the mind.

Erlich works on the brain mechanisms of decision-making, using a combination of neurophysiological recording from behaving subjects and computational modeling. Erlich has also studied how chronic stress affects cognitive decisions, particularly financial decisions. “Dialogue around poverty is so politicized. If we can shift the focus to biological processes and neural mechanisms that affect poverty we might be able to depoliticize the debate.”

Is It a Global Race?

Dr. Wang laughs. “If it is a race, then what is the finish line? The Human Genome Project was a race with a definite end goal. In neuroscience there are many goals. We need to understand the brain across many levels—molecular, cellular, microcircuits, and systems. Some neuroscientists may focus on mapping the brain connectivity; others on the mechanisms of drugs; others on human language, or intelligence, or social communication. There is a plethora of challenges in neuroscience.”

$$\frac{1}{\sqrt{2\pi}} \int_{\frac{1}{k}}^{\infty} e^{-x^2/2} dx$$

The Next Generation

“The undergraduate major in neuroscience did not exist in China until NYU Shanghai,” says Dr. Wang. “So we are pioneers in training young talents in this quintessential field of the twenty-first century. Our students move through required courses in molecular and cellular neuroscience, cognitive systems neuroscience, before taking more specialized courses ranging from A.I., Neuroeconomics, and The Brain Science of Free Will.”

“Our students are amazing,” says Dr. Erlich. “They are courageous and intellectually curious.”

Li Xiangci (李向磁) came to Dr. Wang in his freshman year. His parents wanted him to study business or computational science, but his passion was clearly learning about the brain.

Advised and encouraged by Dr. Wang, he chose to double major in neuroscience and computer science. In addition to studying courses, he carried out a research project supervised by a neuroscientist (Dr. Erlich) and a computer scientist (Dr. Zhang Zheng). He has already succeeded in training a neural network model to simulate behavior in a cognitive task, and is looking forward to his graduation as part of our very first class in the spring of 2017.

“China (and Shanghai city in particular),” Dr. Wang emphasized, “is eager to invest in neuroscience and A.I., because of their revolutionary potential for innovation and economic development. At NYU Shanghai, we don’t limit ourselves to disseminating knowledge. We want to create knowledge—to make scientific discoveries—and improve people’s lives.”

FIND OUT MORE

Visit the Institute’s website for recent research, upcoming conferences, events and postgraduate opportunities: research.shanghai.nyu.edu/brain

A Bright Future

Andrew Hamilton was inaugurated New York University's 16th president on September 25, 2016. During his inauguration visit to the Shanghai campus—the fifth since he was appointed—he talks with NYUSH about his priorities for the Global Network and vision for NYU Shanghai.

NYUSH: You were previously Vice-Chancellor of Oxford University and Provost at Yale. You've taken over as President of NYU after a period of expansion under former president John Sexton. What excites you about leading NYU and its Global Network?

AH: One of the reasons I came to NYU was the University's remarkable trajectory over the past several decades, transforming itself from a largely regional school to one of the world's foremost research universities, a global university with three degree-granting campuses.

What truly distinguishes NYU is our focus on the future and our willingness to take risks to shape that future. Other universities have larger endowments or longer histories. But no university matches NYU for its boldness of spirit and ambition.

NYUSH: How does NYU Shanghai fit into NYU's plans for the future?

AH: NYU Shanghai is a prime example of the boldness in action that has marked NYU's history and has led to extraordinary achievement. The student body comes from 66 countries and 31 Chinese provinces. The students have won international prizes for technology and leadership. The faculty have shaped a unique liberal arts curriculum influenced by China and tailored for the 21st century. The research centers are garnering attention and praise around the world. And

the milestone that NYU Shanghai will reach later this year—the graduation of its first class—underscores just how quickly NYU Shanghai has achieved excellence. Just recently two seniors in the founding class were selected for elite postgraduate Schwarzman scholarships to Tsinghua University in Beijing (see page 2), demonstrating the high regard in which our students are held.

Of course NYU Shanghai makes up part of a larger innovation: NYU's global network. Along with NYU Shanghai are NYU Abu Dhabi, with its own outstanding faculty and talented students; 11 other sites on six continents at which NYU undergraduates can study abroad and graduate students and faculty can pursue research; the largest number of students studying abroad and the largest group of international students attending any US university.

NYUSH: What are the priorities of your leadership?

AH: There has never been a time when bold action on global education is more urgently needed than now. In the face of destructive public discourse on immigration, suspicion of entire religions and ethnic groups, and a range of problems—from climate change to ideological extremism—that defy borders, it is essential that we choose not to retreat but to engage.

We must make a priority of refining the global network, of ensuring that it aligns throughout with our academic standards and principles. In the near term, that means our focus will be less on increasing the number of our NYU campuses or global sites and more on reaching the full potential of the exceptional global enterprise NYU has already built, guided always by the goals of enhancing our students' education and serving our faculty's scholarly interests.

NYU Shanghai has already begun to expand, increasing its annual undergraduate intake for next year from 300 to 350 students. We will continue to grow the student body steadily with a long-term target of 2,000 undergraduates.

We must continue improving the connections until the links feel like second nature. We must carry on the work we have already begun with the Global Research Initiative: expanding the role of the global sites so that in addition to their traditional mission of undergraduate education they become centers of real research excellence involving faculty and graduate students. And we must ensure that these wonderful academic and global opportunities are available to all NYU students, no matter what their financial background.

NYUSH: What are your hopes for the future of NYU Shanghai?

AH: I encourage the NYU Shanghai community to keep doing what you have done so well up to this point: taking risks yourselves with a sense of adventure and openness; asking new questions and creating new answers; and sharing what you observe that works as well as what opportunities you see for improvement.

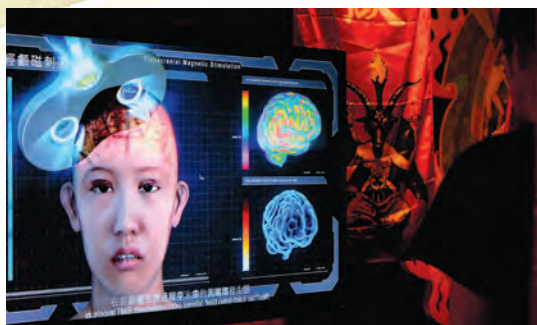
I have utmost faith in NYU Shanghai, as I do in NYU, and I pledge to work using all of the tools I can on its behalf—in honor of its past, in celebration of the present, and especially in anticipation of its splendid future.

Watch President Hamilton discuss the future of higher education with the presidents of Peking University and East China Normal University during a conversation at NYU Shanghai in October: shanghai.nyu.edu/president-video

BRIDGING CULTURES WITH ART

During the fall semester, acclaimed multimedia artist Lu Yang premiered her new installation, *LuYang Delusional Crime and Punishment*, at the NYU Shanghai Gallery. Under glowing red lights and set to a dark electronic soundtrack, the installation confronted visitors with screens portraying Lu's genderless, dancing avatar—born from a 3D printer and condemned to suffer endless torment in a nightmarish, virtual world.

“The brain fascinates me; it's such a magical thing,” said Lu, whose work traverses the fields of neuroscience, biology, religion, and pop culture, exploring links between the brain, perceptions, and consciousness.



Science meets art in Lu Yang's exploration of the meaning of existence.

of my work,” she says. “Whenever I have the opportunity to meet a neuroscientist, I always ask the same question: ‘Do you believe that consciousness comes from the brain?’ And their answers are different.”

Lin Qian, the curator of the NYU Shanghai Gallery, said that this was exactly the kind of collaboration the gallery sought to nurture. “As part of a global research university, the NYU Shanghai Gallery aims to be an art incubator, empowering artists, both emerging and established, to create new work.”

Since opening in 2014, the gallery has held several high-profile exhibitions including Chinese ink brush paintings *Ode to Dancing Ink* by avant-garde artist Qin Feng, and Song Dong's *A Flourishing Void*, a dazzling hall of mirrors, which the renowned conceptual artist designed as a site specific installation for the gallery. “Song Dong's piece didn't exist before our collaboration,” said Lin. «He was intrigued by the university's global network—it was strange for him to climb into our walled space in order to climb outside of China.”

The gallery also supports the NYU Shanghai community by collaborating with professors and students from around NYU's global network. “Making Waves with Moving Images”



Chinese conceptual artist Song Dong's dazzling installation was inspired by NYU Shanghai's global connections (above); A visitor contemplates Lu Yang's dark work (below); Qin Feng's work blends traditional Chinese Calligraphic art with western expressionist styles (bottom).

is a program the gallery initiated with NYU professor Zhang Zhen, who teaches Cinema Studies and History in New York and Shanghai, to invite filmmakers to the Pudong campus for interactions with students. Recent visitors include Pema Tseden, a Tibetan director, and Du Haibin, an accomplished documentary film-maker. “Facilitating conversation between artists, faculty and students is a huge and important part of how we support our community here,» said Lin.

This spring, the gallery will host a group exhibition with a mix of Chinese and international artists. This, for Lin, is at the heart of what makes the NYU Shanghai Gallery special: “We're a bridging place between cultures—through us you get connected with the world.”

GALLERY OPENING:

Visit new exhibition 'Borders: Us and Them', showing from March 7 to May 30. Find out more at nyush-gallery.org



Ode to Dancing Ink

It was this fascination that first led the artist to NYU Shanghai. In July, Lu attended the Computational and Cognitive Neuroscience Summer School hosted by NYU Shanghai and East China Normal University, where she joined leading neuroscientists to discuss the intersection of art and science. “I am always curious about what neuroscientists think



Matthew Couch '19 and Liu Tianwei '19 first met through a Facebook group for incoming freshmen. After exchanging messages on WeChat and QQ, their friendship was sealed when they were randomly paired as roommates in their first year. Matthew's first experience of China was during a trip to Chengdu while in high school; Tianwei will be studying away in New York next year—his first visit to America. They decided to share a room again in their sophomore year and are each other's go-to person for navigating Chinese and American culture. "Tianwei's English is much better than my Chinese! He has taught me many things about Chinese culture." "Matthew and I help each other out...it's a mutual learning process."

Interview: Yida Ma
Photo: Daniel Cuesta

Home: Nanjing, Jiangsu Province, China
Major: Mathematics
“(Mathematics is the foundation of everything.)”
Reason for choosing NYU Shanghai:
“I don't want to live an ordinary Chinese college life. I'm going to choose a more challenging life. The first year here was quite tough because all the classes are in English, but now everything is getting better.”
Did you bring anything special from home?
“I brought something from my hometown. It's from my mom. It's kind of traditional and superstitious. My mom went to a temple on a mountain, got an amulet there and asked me to carry it in my bag. I still have it with me. It's kind of special for me because it's from my mom.”
Clubs and fun:
“I joined the Business Chapter. Although I major in mathematics, business and marketing are still very interesting to me. I also joined the E-Sports club.”

家乡: 中国江苏省南京市
专业: 数学。“数学是万物之本。”
选择上海纽约大学的原因:
“我不想过普通中国大学的生活, 我想要一个富有挑战的人生。开学第一年确实有点难, 所有的课都是用英文讲授的, 现在就适应多了。”
从家乡带来了任何特别的東西嗎?
“我帶了一個媽媽送給我的, 算是有点传统又迷信的东西吧。妈妈去山上的寺庙给我拜了一个护身符, 让我放在书包里。我一直带在身上。因为是妈妈给的, 所以很特别。”
社团活动和爱好:
“我的专业是数学, 但我对商业与市场营销很感兴趣, 所以我参加了Business Chapter的商业社团, 也参加了电子竞技社团。”



家乡: 美国德州
专业: 数据科学。“最初选的是商业, 后来改了专业。”
选择上海纽约大学的原因:
“如果我继续留在美国上大学, 可能就没机会探索世界了。在上海纽约大学, 你可以遇到来自60多个国家的同学。”
从家乡带来了任何特别的東西嗎?
“对我来说, 大学是一个全新的开始。在上海纽约大学要去探索、经历的东西太多了, 我不想和过去绑在一起。”
社团活动和爱好:
“因为我喜欢做志愿者的活动, 所以参加了‘绿色上海’和‘Rotaract’这两个社团。我也喜欢出去发现美食, 和朋友们走走看看。”



Home: Texas, U.S.
Major: Data Science
“(Probably! Originally I was a business major, but I switched.)”
Reason for choosing NYU Shanghai:
“I was afraid that if I stayed in America to attend college I'd never have a chance to explore the rest of the world. At NYU Shanghai you meet people from over 60 countries!”
Did you bring anything special from home?
“For me college is a fresh new start. There is so much to experience at NYU Shanghai that I didn't want to be tied down to the past.”
Clubs and fun:
“I joined Green Shanghai and Rotaract as I love volunteering. I also like going out to eat and just hanging out.”

采访: 马毅达
摄影: Daniel Cuesta

2019届学生的Matthew Couch和刘天伟, 在没来上海纽约大学的时候, 就在脸书群里认识了对方。两人互加微信, QQ聊天, 等到入住宿舍发现被分到了一间宿舍时, 自然就成了无话不谈的好朋友。Matthew读高中时去过成都, 这是他第一次到中国; 天玮计划明年去纽约进行海外学习, 这将是他的第一次美国之行。大二开学, 两个好朋友决定继续做室友。两人在学习上互相帮助, 还扮演着各自国家的文化传播大使。Matthew说, “天玮的英语比我的汉语好很多。他教会了我中国文化里的很多东西。”天玮说, “我和Matthew互相帮助, 这是一个彼此学习的过程。”

艺术联结世界

秋季学期，国际新媒体艺术领域备受瞩目的年轻艺术家陆扬的个展“陆扬妄想罪与罚”，在上海纽约大学美术馆举行。展览现场闪烁色火焰，加之黑暗电子乐营造出诡异氛围。陆扬作品的大屏幕里用3D打印出来的无性人手舞足蹈，这些被标注着“人类产品”标签的“生灵”被投下地狱，遭遇灵肉折磨。

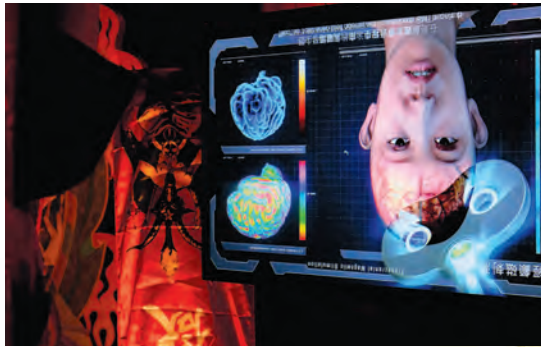
陆扬说，“大脑让我着迷，它是人身上最为神奇的器官。”陆扬的艺术实践涉足生物学、神经科学、宗教、流行文化等众多领域，她的作品试图探索大脑、感官认知和意识之间的关联。

20



“秦墨风尚”水墨展

对大脑的兴趣吸引陆扬到访上海纽约大学。2016年7月，陆扬受上海纽约大学美术馆邀请，与在上纽大参加“2016年计算与认知神经科学国际暑期学校”的神经科学领域的众多世界顶尖科学家，一起探讨科学与艺术的关系。陆扬说，“我尤其好奇神经科学家从我的作品中看到什么。每遇到一个脑神经科学家，我



在陆扬对存在与意识的探索过程中，艺术与科学相会。

都会问一个问题，‘你觉得意识是从大脑里生成的吗？’虽然都是神经科学家，大家的答应却是不尽相同。”

上海纽约大学美术馆馆长林倩说，这次与陆扬的合作，是上海纽约大学美术馆所期望达到的典范。“上海纽约大学美术馆是一所研究型大学的一部分。上纽大美术馆要做不一样的策展，无论是与新生代艺术家还是知名艺术家的合作，都希望美术馆能起到催生新艺术的作用。”

自2014年开馆以来，上海纽约大学美术馆举办的展览包括先锋艺术家秦风的中国当代水墨展“秦墨风尚”，当代知名艺术家宋冬的“繁华的虚空”等。“繁华的虚空”是艺术家专为上纽大美术馆度身缔造的，炫目的镜面让美术馆一片“镜花水月”。林倩馆长说，“上纽大是一所没有围墙和边界的大学，立足城市，融入城市，给予了艺术家丰富的灵感。”

上纽大美术馆与来自纽约大学全球教育体系的教授与学生合作，汲取各方灵感，支持上纽大在艺术领域的探索。



(上图) 中国当代艺术家宋冬专为上纽大美术馆度身缔造的，让展馆一片“镜花水月”的装置作品；(下图) 一名观众在陆扬的作品前驻足沉思；(底图) 秦风的作品，融合了传统中国书法艺术及西方艺术的表达方式。



美术馆与纽约大学电影学副教授张真联合发起了“Making Waves with Moving Images”的系列活动。作为上海纽约大学的联聘教授，张真与林倩馆长邀请电影人来校园与学生互动对谈。近期客演的电影人包括电影导演万玛才旦和杜海滨。其中，杜海滨与师生探讨了他2001年的作品《铁路沿线》。林倩表示，“推动、鼓励艺术家和 International 艺术家参加的群展。对林倩来说，这是上纽大美术馆与众不同的关键所在，‘我们是联结不同文化的桥梁。通过我们，你将与世界沟通。’”

春季学期，上海纽约大学美术馆将举行由中国艺术家和 International 艺术家参加的群展。对林倩来说，这是上纽大美术馆与众不同的关键所在，‘我们是联结不同文化的桥梁。通过我们，你将与世界沟通。’

3月份将推出“Borders: Us or Them”的展出。请前往nyush-gallery.org获取详情。



勇创未来的 上海纽约大学

2016年9月25日，Andrew Hamilton宣誓就职，成为第16任纽约大学校长。自任命起，他就经常到访上海纽约大学。在接受《上海纽约大学汇刊》采访时，Andrew Hamilton谈及他对纽约大学全球教育体系发展重点的想法，展望了上海纽约大学的光明前景。

《上海纽约大学汇刊》：您之前是牛津大学校长、耶鲁大学教务长。在前任校长John Sexton拓展了纽约大学的全球教育体系后，您接任校长一职。是什么原因让您决定加入纽约大学，领导学校及其全球教育体系的发展？

Hamilton：我加入纽约大学的原因之一，是学校在过去几十年来出色卓越的发展轨迹——从一所地区性的学校，发展壮大为全世界最重要的研究型大学之一。纽约大学全球教育体系包括三所拥有学位授予资格的门户校园。

让纽约大学区别于其他知名大学的，在于我们对未来的关注，以及勇于塑造未来的意愿。其他大学或许有更多的捐助或更悠久的历史，但没有任何一所大学比得上纽约大学所具有的气魄与决心。

《上海纽约大学汇刊》：在纽约大学未来发展蓝图，上海纽约大学扮演着什么样的角色？

Hamilton：上海纽约大学是纽约大学历史的创造者和见证者，取得了非凡成就。上海纽约大学的学生来自66个国家、31个中国省市。作为一所非常年轻的大学，学生们已经获得了多项科技和领导力的国际奖。教师们打造出涵盖中国视角，为21世纪量身定制的通识教育课程。

上海纽约大学将在今年5月迎来又一个发展里程碑——首届本科生毕业。这显示出上海纽约大学在很短的时间里所取得的成就。近日，上海纽约大学的两名大四学生入选了国际精英奖学金项目——“清华大学苏世民学者项目”，将前往清华大学攻读硕士学位，这是外界对上海纽约大学学生的高度认可。

上海纽约大学也构成了一个更广阔的创新网络，是纽约大学全球教育体系的组成部分。这个全球教育体系包括纽约大学阿布扎比，这所学校同样拥有自己的优秀教师和学生；纽约大学还在全球六大洲拥有11个海外学习中心，纽约大学本科生可以在这些地方进行海外学习，研究生和教师可以在全球进行研究；纽约大学拥有数量最多的具有海外学习经历的学生群体，也是拥有国际学生数量最多的美国大学。

《上海纽约大学汇刊》：您担任校长期间的工作重点是什么？

Hamilton：现在比以往任何时候，都需要对全球教育采取大胆果断的行动。面对就移民问题的破坏性公共论述，对某一宗教和族裔群体的整体质疑，以及从气候变化到极端主义意识形态这些超越国界的一系列议题，我们不应该退却，应该去参与、推动。

我们首先必须改善纽约大学全球教育体系，确保我们的学术标准和原则始终贯穿如一。就近期来说，这意味着我们的发展重点不能是增加纽约大学的校园数量或全球学习中心数量，而是应充分利用、发挥纽约大学已建成的全球教育体系的潜能，以提高教学质量，服务教师学术旨趣为主要发展目标。

上海纽约大学正在茁壮成长，明年招收本科生的数量从每年300人增至350人。我们将持续增加招生人数，稳步迈向2000名本科生的长期发展目标。

我们必须要加强全球教育体系的紧密联系，确保它们之间的互联互通。我们必须持续推动“全球研究项目”（Global Research Initiatives），扩大全球教育体系的作用。除了肩负原有的本科生教育这一传统使命，海外学习中心应成为服务于教师和研究生研究中心。我们必须确保纽约大学全球教育体系的每一名学生无论经济情况如何，都能享受到宝贵的学术和全球学习机会。

《上海纽约大学汇刊》：您对上海纽约大学的未来期许是什么？

Hamilton：我希望上海纽约大学大家庭能够再接再厉，勇于探索，秉持开放之心；具备发问的精神和解答问题的能力；共享经验心得，抓住发展机遇。

我对上海纽约大学有绝对的信心。我对纽约大学也是一样。我承诺将尽我所能，继续开来，开创一个辉煌的未来。

2016年10月，Hamilton校长还与北京大学校长林建华、华东师范大学校长陈群，在上海纽约大学就高等教育的未来进行了圆桌讨论。请前往shanghai.nyu.edu/president-video观看视频。



上海纽约大学副校长汪小京教授在2015浦江创新论坛上发表主旨演讲。

$$h = \left(1 - \frac{1}{n}\right)$$

16

模型，以帮助理解数据、找出其中的一般规律，并提出预测，在新实验中验证”。他和其他理论神经科学家与实验者密切合作，来解决跨神经生物学和心理学的核心问题。这种方法本质上具有高度的协作性和前瞻性。计算神经科学在中国刚刚起步，像华东师范大学-纽约大学脑与认知科学联合研究中心（上海纽约大学）这样的专注于认知功能的神经基础的研究中心寥寥无几。“这些特点使我们与其他科研机构不同，”汪教授补充道。

汪教授用十分钟的时间为我们简单介绍了神经科学六十年的研究成果：神经元如何通过电信号传输信息，这些信号如何在神经元连接的位罝（神经突触）转换成化学信号，以及神经元如何连接成复杂的网络，实现脑功能。重要的是，如何将这些信号和它们之间的相互作用以数学方程来描述。汪小京教授说，“随着大脑联结图谱的获得，我们有可能建立模型来描述大脑的神经回路。你知道吗，将一个大脑中所有神经元的连接拼成一条线，长度是地球和月

上海纽约大学神经和认知科学助理教授Jeffrey Erlich怀有同汪教授一样的热忱。来自普林斯顿大学和麦吉尔大学的他这样说道，“这是一个真正的机会。在上海纽约大学，我享有纽约大学神经科学的所有资源，还可以成为上海纽约大学这个新池塘中的一条大鱼！”

汪小京教授说，我们正在上海纽约大学建立一个计算平台，还是一个激发研究人员产生并检验新想法的环境。我们的终极目标是发现神经科学中的普遍规律。这些规律如同物理学中的牛顿定律一样，将具有预测新效应的能力。此外，我们可以使用新发现的数学算法来开发人工智能。这就是为什么计算神经科学被称为神经科学和人工智能之间的关键桥梁。

球之间距离的一半！”最后，汪教授笑着说，“人类精神活动的一切都始于神经元之间的连接和神经网络的动态变化！”

$$\frac{ds}{dt} = -s/\tau_s + (1-s)\gamma f(I)$$

汪教授说：“据我们了解，上海纽约大学成立以前，中国没有神经科学这一本科专业。因此，从这点看，在中国我们可算是培养21世纪这一新领域年轻人才的先驱。我们的学生先上分子和细胞神经科学、认知神经科学等必修课，然后可选择人工智能、神经经济学（Neuroeconomics）、自由意志的脑科学等专业课。”

神经科学的新生一代

汪教授笑了。“如果这是一场比赛，那么‘球门’在哪里？人类基因组计划是一个有明确球门的比赛。神经科学却有许多目标。我们需要在多个层面了解大脑——从分子、细胞，到微回路和系统。一些神经科学家可能专注于绘制大脑联结图谱；另一些人则对药物的机制感兴趣；其他人可能一辈子研究语言、智力、或社会交往的认知能力。总而言之，神经科学面临诸多挑战。”

那么，这是否是一场全球竞赛？

Enlich结合神经生理记录和计算建模来研究抉择的大脑机制。他还研究了长年的压力如何影响认知抉择、特别是财务抉择。“围绕贫穷的讨论总是与政治挂钩。如果可以将焦点转移到影响贫困的脑基础和神经学机制，我们也许能够便这一讨论去政治化。”

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上海纽约大学神经科学的教授是真正的跨学科学者，他们具有物理、工程、数学和计算科学的背景。Enlich说：“这里的人用数学语言来讲述大脑的运作机制。他们为一种新的、一种共同的语言奠定了基础。”这段评述，来自做实验的神经科学家，点出了脑科学领域正在发生的史无前例的变革。

“我们的学生很了不起，”Enlich说，“他们既有勇气又有强烈的求知欲。”Enlich注意到中国学生十分多样——有些非常外向，有些则很害羞，但他们都非常聪敏。

李向磁是上海纽约大学的第一批学生。在大一时他主动找汪教授谈到，他的父母希望他学习商科或计算机科学，但他对研究大脑更有热情。在汪教授的指导和鼓励下，他选择了神经科学和计算机科学双主修。这两个专业修课的要求都很高，但除了上课，李向磁还很快参与了前沿的研究。在Enlich与计算机科学家张峥教授联合指导下，他已经成功地训练了一个神经网络模型来模拟认知任务。作为第一届毕业生，他即将于今年春季毕业。

“中国，特别是上海，”汪小京教授强调说，“非常重视神经科学和人工智能的科研，因为此领域将引发技术革新并带来巨大的经济发展。在上海纽约大学，我们并不仅仅是在传播知识。我们要创造知识，开拓科学的新疆界，造福于人类。”

了解更多信息
访问中心网站research.shanghai.nyu.edu/brain，获取关于近期研究、会议动态、讲座活动与研究生机会的信息。

$$\frac{1}{\sqrt{2\pi}}\int_1^\infty e^{-x^2/2}dx$$

世界课题之破解大脑密码

Susan Satter Reynolds 撰文

华东师范大学-纽约大学脑与认知科学联合研究中心（上海纽约大学）的成立，体现了创新形式的研究合作，将在揭示大脑奥秘的全球竞赛中扮演一个特殊的角色。

上海纽约大学副校长（创始教务长）、脑与认知科学联合研究中心主任汪小京教授在加入上海纽约大学前，是耶鲁大学神经生物学终身教授。汪小京教授说，“即使在耶鲁，开展跨学科研究和教学也不总是件容易的事。在上海纽约大学，我们有如此特别的机会可以从无到有建立一所全新的研究型大学。这使我们在短短四年时间里，就成立了10个跨学科联合研究中心。”

“理解跨尺度的复杂大脑的神经网络，需要紧密的跨学科合作，”汪教授说，“我们结合实验、理论与计算建模，有望为神经科学、为中国的脑计划做出特别的贡献。”

$$\sigma^2 = \beta_1 * n + \beta_2$$

全球研究热潮

脑疾病的发病率近年来逐步走高，而人们对于脑疾病的病理和治疗方法还知之甚少。这一挑战与全球变暖类似，需要全球性的跨国合作。《科学》杂志中最近强调，“我们必须举全球之力来解密大脑”。

在美国，奥巴马总统于2013年发起投资3亿美元“白宫脑计划” (<https://www.whitehouse.gov/BRAIN>)，旨在加速新技术的开发和应用，使脑科学家能够以动态的视角理解大脑的功能。



Jeffrey Erlich博士（图中）在脑与认知科学联合研究中心实验室查看行为测试结果。

$$T_{network} = T_{syn} / (1 - w_{syn})$$

$$C \frac{dV_m}{dt} = -G_L(V_m - V_L) + I$$

一体两翼

在欧洲，“人脑计划”于2013年入选了欧盟的未来旗舰技术项目，获得16亿美元的资金支持。在日本，Brain/MINDS的大脑研究计划于2014年正式启动，它将绘制大脑图谱与脑疾病研究的神经科技相结合，以猕猴作为动物模型来探索人类大脑的运作机制。

中国的脑计划拟在2017年启动。该计划以“一体两翼”布局，即以研究脑认知的神经原理为“主体”，研发脑重大疾病诊治新手段和脑机智能新技术为“两翼”（人民网）。

全球的脑科学家和研究机构以不同的侧重点，共同接受揭秘大脑这一挑战。汪小京教授介绍说，过去很多年来，神经科学家的研究专注于知觉和运动。然而近期领域的研究重点之一是知觉和运动之间的认知过程。认知是脑的高级功能，其涉及的大脑部分是最神秘、我们所知甚少的神经网络。这需要对非人类灵长类进行实验。事实上，中国的多个机构，包括中国科学院神经科学研究所，已建立灵长类实验动物中心，由其研发猕猴的转基因技术来研究大脑。

田兴博士与蔡清博士设置了一个电极帽，研究在感知、行动和语言中所使用的大脑机制。



$$\frac{p(A|s)}{p(A,s)} = \frac{p(s)}{p(A,s)}$$

汪教授是一位理论神经科学家。他解释说，“我的研究在于发展理论并构建神经回路的计算

选择上海纽约大学这所

全新大学的学生，显示

出他们与生俱来的勇气

和魄力。入学后，他们

开始适应、了解全新的

学习模式，吸取、消化

原本陌生的概念，对层

出不穷的智慧挑战习以

为常。他们学会用新思

路、新方案，解决老问

题。我为他们的创新、

创业精神，以及大胆的

实验精神叫好！这正是

上海纽约大

学的精神。

——上海纽

约大学教务长

衛周安



数学（荣誉学位）、互动媒体艺术专业



纽约大学雷诺兹项目 供图

NOFAR HAMRANY，2018届

经济学专业，“绿色上海”社团主席，“绿色周”联合创始/推动人



我在以色列长大，废物回收利用是家常便饭，这里家家户户都装太阳能板。我刚开始留意上海的环境问题时，觉得无从下手，我困惑：我怎么可能凭一己之力变出蓝天白云？有一天，在陆家嘴，我看到一个小女生戴着Hello Kitty的口罩，这个细节给了我很大的震动，我希望把这件事情做大。任“绿色上海”社主席后，我与“动物权益与草食学会”社团合作发起了“绿色周”的食素活动。随后，衍生出用可循环材料制作时装、环保相关的职业机会，以及可持续发展相关的商业机会。“绿色周”是纽约大学三大门户校园的固定活动，吸引了不少关心环境于生态的方式发展中东经济，尤其是巴勒斯坦的经济，参与并推动解决巴以冲突。

我还发起了大学的城市花园项目，我非常喜欢这个项目，从校园花园这个基金会社会创业家奖”大纽约地区的奖项，及“清洁能源和可持续发展解决方案领导力奖”，这些奖项彰显并鼓励她在清洁能源和可持续发展领域上所做的创新、改变与行动。

与人与人之间的接触与交流。

作为一名经济学专业的学生，我关注

经济学的可持续发展领域。我打算学

针对室内空气污染对健康造成的严重危害，Aeolian(Aeo)通过建立监控空气质量的网络，提供空气质量数据的应用程序，让更多的人获得洁净空气。

龚小月的社会创业项目获得了2016年联合国青年大会，以及非营利组织VentureWell“E-Team”资助项目的认可。

IVAN MARKS，2017届学生

主修全球中国研究，辅修中文，精通上海话

来上海纽约大学之前，我一直在纽约生活。高中开始，我就学习中文，对中国产生兴趣。所以，自然而然地就选择到上海读书。

在上海生活学习了三年多后，我的中文已经非常流利了。为了继续挑战自己，也因为我真的很喜欢学习语言，我就开始挑战上海话，一有机会就练上海话。平日里，我抓住一切机会说中文，不管是在餐厅点菜还是在地铁出的独脚戏《成语新说》，收获了全场最多的掌声。有媒体报道说，Ivan

的秘诀就是不怕开口，不怕出错。当然了，性格外向绝对会是学语言的优势！

势！

势！

势！

势！

势！

势！

势！

势！

势！

势！

势！

这是我们第一次参加创意设计马拉松比赛，我和其他几位大二的同学，设计出一种无需用水、电和污水处理系统的“独立型”厕所。在由知名卫浴品牌科勒和战略咨询公司

次比赛中，我们是最年轻的一支团队，竞争对手包括中国顶级名校的研究

究生。我们的团队没有太多设计、工

黄淇，2019届

商业与金融、数据科学专业

获奖团队（左起）：卢子杰、王文韬、黄淇、黄鑫成、李逸伦



的时间和团队找出解决方案，其中，创造性地思考非常重要。

黄淇与团队成员李逸伦、卢子杰、黄鑫成、王文韬于2016年11月，获得科勒24小时创意设计马拉松比赛第一名。



张联庆/上海日报 供图



Frank Su Huang 供图

上纽大鼓励同学们积极参与讨论、辩论，重视辩证式思维的培养。

俞校长说，“有一位学生今年毕业，她在银行实习，银行对她相当满意，并愿意正式聘用她。当我问这位学生将来想要做什么时，她没有提到薪水和工作城市，只是告诉我，希望找一份自己感兴趣、能够感到快乐的工作。她说，‘我是在上海纽约大学学到的东西。’我对这位同学的话印象颇深，这让我对我们的工作感到非常自豪。”

未来期许

上海纽约大学的学校领导期待学校进一步发展
与壮大，希望与纽约大学合作开设更多的研究
生项目，扩大、加深与上海、与中国的联系和
纽带。

雷蒙校长说，“中国的经济增长模式，正在从基
础设施投资建设和出口，转向国内消费驱动的

模式。中国会建立一个福利国家，不断发展
金融基础设施。纽约大学的优秀研究者，有能
力协助中国政府引领这一改变。”

McLaughlin教授说，“从头开始创建一所研究
型大学，这样的机会在人生中实属罕见。能够
参与这一历程，我感到极其荣幸。”

通识教育讨论会

我们邀请学者、专家参加于3月10日至11日在上海纽约大学
举行的通识教育讨论会，探讨在新的全球背景下，如何在
实行通识教育时引入中国视角。请访问shanghai.nyu.edu/
events报名参加讨论会。

在一个2400万人口的大都市，培育社区协
作和归属感，不是件容易的事。而上海纽约
大学通过各种社区服务项目，让未来的全球
公民拓展自己的经验，主动探索、了解中国
悠久的历史文化，在地方与全国发挥积极影
响。

对上纽大学生来说，“上海市特奥阳光融合
跑城际邀请赛”——“两人三足”绑腿跑的活
动，是一个融入社区的好机会。同学们与上
海市浦东新区辅读学校的学生首次组队一起
训练并参加比赛。

上海纽约大学大一新生Greta Solomon，与
上海市浦东新区辅读学校的学生进行了两个
月的训练，她热衷于参加志愿服务活动，“尽管
我们说着不同的语言，但我们会对彼此微笑，并能理解对方。”

志愿服务是双向受益的，上纽大积极投身志
愿活动，传承发扬了纽约大学服务社区的传
统与精神。学生事务处主任Adam Ebnit表
示，“不管是辅导孩子学习，教农民工子女
英语，还是帮当地民众修建房子，照顾老
人，这些志愿服务都可以让同学们更好地理
解各种社会问题，增强同理心，通过给与和
服务为他人的生活带来积极的影响，同时实
现自我提升。”

想要参与志愿服务的上纽大学生，可以参加

学校的“院长基金公益服务学习项目”
(DSS)。在本地，同学们前往上海青浦大
莲湖湿地保护区参与湿地修复项目。同学们
做公益的足迹并不局限于上海：他们在湖南

教小朋友学英语；关怀河南艾滋病村家庭的
儿童；投身云南山区参与再造林项目。

参加志愿服务：
登录shanghai.nyu.edu/community，查找最
新的志愿服务机会，也可发邮件至shanghai.
involvement@nyu.edu进行询问。

志愿服务“做中学”

1,460

上纽大的跑步爱好者齐聚陆家
嘴国际金融中心，征服了57层
楼共1460级阶梯！参赛者的报
名费用，捐赠给上海市儿童健
康基金会，为特困家庭病患儿
童提供医疗救助。

100

上纽大师生感恩节来上海南汇
嘴的明珠临港小学，为小学生
送去100余台电脑和打印机设备
的“感恩节大礼包”，支持建设
学校的IT智能课程。

15

上纽大和上海市浦东新区辅读
学校师生组成的11人队伍，完
成了距离30米的“融合跑”比
赛，以15秒成绩获得季军。

38

38名学生注册参加了2016年的
“院长基金公益服务学习项目”
(DSS)。

而学生也随时随地在进行学习——和讲英语的同学进行交流，参加社团活动，做研究等等。

像上海纽约大学这样的学校，在50年前是不可能存在的。过去半个世纪以来，美国的、过去半个世纪以来，美国的命运交织在了更加积极主动，鼓励学生参与讨论、辩论，重视辩证式思维。这对很多中国学生可以说是个挑战。”

上海纽约大学的老师也被赋予充足的空间，联合探索并讲授哲学与科技、神经科学与经济学的课程。课程设计体现了跨学科知识的融汇与传播，是中美高等教育的发展趋势。上海纽约大学教务长、历史学教授卫周安负责规划上海时俱进，能够对技术、教育学和全球经济现实所发生的变化迅速做出回应。”

上海纽约大学是中国的教育改革的了互动媒体艺术和商业，这样，学生们既能学习基本的商业知识，又能满足自己的兴趣爱好。”

跨学科与国际化

上海纽约大学致力于为传统学科融合后涌现出的新领域做贡献，计算神经科学就是其中一个领域。华东师范大学在认知心理学和脑科学领域有着深厚悠久的历史传统，实力出众；纽约大学长期处于人工智能领域研究前沿。师资力量在上海纽约大学的平台上强强联合，探索新的方式研究大脑、建立模型。(更多信息，请参见“世界课题之破解大脑密码”一文，第14页)

这种跨国界、多学科的合作，将越来越成为常规。雷蒙校长说，我们当今面临的许多问题都影响着整个世界，应对这些问题需要不同学科



雷蒙校长

的专业知识。上海纽约大学首席科学导师、纽约大学前教务长David McLaughlin教授也认同这一点，他表示，“今天，一个真正受过教育的人必须具有跨学科和国际化的素质。”

大一学生要学的《全球视野下的社会》和《城市遇到海》(Where the City Meets the Sea)的新课程，或是结合了物理、生物和化学的跨学科基础课，都是上海纽约大学在过去四年来打下跨学科基础的例子。卫周安表示，“每到大一春季开学伊始，同学们的新思维就开始如雨后春笋般地萌发了。”

“我们的学生充满创造力，适应力强。对于如何塑造未来，他们有自己的想法。”

卫周安说，“创造力是衡量伟大的标准。如果我们帮助学生以创新方式将不同元素融会贯通，这就意味着培养出了当今世界所需的重要技能。”

创新先行者

令雷蒙校长感到欣慰的是，才华横溢的教师怀着信念选择到上海纽约大学来，参与这所新大学的“梦想建设”。

McLaughlin教授表示，我们利用和纽约大学的紧密联系，在上海纽约大学建立起了一支杰出而强大的教师队伍。Zemei教授则表示，“对教师来说，上海纽约大学提供了一个绝好的机会，让他们在中国发挥积极的影响和作用。”

学校高度评价参与、见证了这所大学成长的学生。卫周安回忆起

2013年学校首次开学典礼的情景。当时，老师们聚在一起，迎接学生的到来。卫周安担心地问一名老师，“你觉得会有学生出现吗？”看到第一名学生的身影时，她提到嗓子眼的心终于放了下来。“我很骄傲地看到上海纽约大学的稳健成长。”

前立中学校也赞叹首届学生的勇气。“他们明确地知道自己想从这个

点也获得社会的认可。我们的学生有着清晰的方向，他们积极、勤奋又努力。”

前校长表示，“上海纽约大学为教育界带来了

对这样的能量已经习以为常，但对中国学生来说，这是一种新鲜的尝试。”

前立中学校长



跨越国境的大学：迎接未来挑战

Susan Salter Reynolds 撰文

从2013年迎来首届新生开始，上海纽约大学的师生、员工，还有关注学校发展的公众，就知道这所学校将是与众不同的——这是纽约大学和华东师范大学融合全球资源与视野的一次大胆的高等教育改革创新尝试。

三年后的今天，上海纽约大学首届本科生即将毕业，他们是学校创新化、国际化本科教育的首批受益者。与此同时，上海纽约大学的10所研究机构正在各自的领域展开协作性前沿研究，成立短短三年，已有200多篇论文在国际公认的期刊上发表。

上海纽约大学目前有1200名本科生和170名教师。学校正迈向增至2000名本科生和250名教师的长期发展目标。下一个发展重点是开始硕博项目。

学习中文。学生前两年在上海纽约大学学习，第三年起，可选择前往纽约大学全球教育体系中的其他两个门户校园或11个海外学习中心学习，大四回到上海纽约大学完成学业。学生入学后先不分专业，到大二再确定专业。

上海纽约大学每一届的300名学生中，151名学生来自中国31个省市，另外149名来自世界各地。现有的学生共来自60多个国家。所有课程用英语授课，非中国籍的学生须

新模式

上海纽约大学创新模式的成功，引发了全世界顶尖高等教育机构的思考。

上海纽约大学超越传统进行院系划分。教师均在传统学科上取得了优秀成果，而他们的研究旨趣又超越了学科界限。因此，上海纽约大学的一些学科保留了传统设置，例如数学；而互动媒体艺术这类新专业则打通并融合了多个传统学科。所有大一新生须学习《全球视角下的社会》这门课，从多文化角度探讨政30年里，中国的改革开放政策让中国和世界建起了更紧密的联系，新生代们可以用全新的方式去体验、感知这个世界。但他们寻求的不应当只是信息，这些从课本里就可以获得。他们更应当亲身体验多元的文化。”

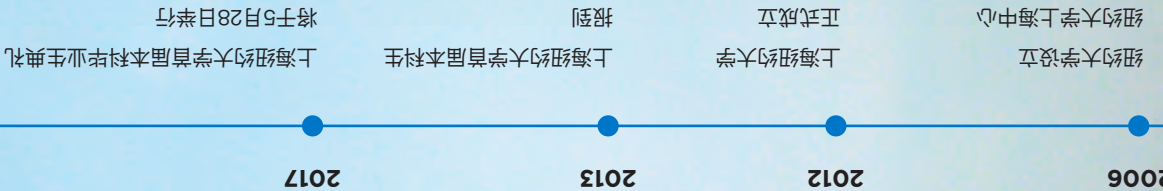
上海纽约大学校长俞立中在加入上纽大之前，于2006年至2012年担任华东师范大学校长。他非常同意雷蒙校长的看法。“世界正在飞速变化。我们有义务、有责任帮助学生去了解这个世界。这对中国学生来说尤其重要。过去30年里，中国的改革开放政策让中国和世界建起了更紧密的联系，新生代们可以用全新的方式去体验、感知这个世界。但他们寻求的不应当只是信息，这些从课本里就可以获得。他们更应当亲身体验多元的文化。”

“上海纽约大学是教育创新的先驱。”

上海纽约大学常务副校长杰弗里·恩商学院全球项目与高管培训项目副院长Citian Zemei说，“上海纽约大学是教育创新的先驱。它壮志雄心、砥砺前行。它能让我们所有人在全球高等教育变革的推动者与领导者。加入上海纽约大学之前，他曾任密歇根大学法学院院长、康奈尔大学校长、北京大学国际法学院副院长院长。他一直强调培养我们希望我们的学生在世界各地都能自如穿行、游历，这是接受过优质教育的人所具有的重要技能。”

此外，环球亚洲研究中心(PCI) 这些新的研究机构，以及创造力与创新项目鼓励教师设计出“编舞与虚拟现实”、“食物与启蒙”、“神经科学与社会学”等创新课程。

上海纽约大学常务副校长杰弗里·恩商学院全球项目与高管培训项目副院长Citian Zemei说，“上海纽约大学是教育创新的先驱。它壮志雄心、砥砺前行。它能让我们所有人在全球高等教育变革的推动者与领导者。加入上海纽约大学之前，他曾任密歇根大学法学院院长、康奈尔大学校长、北京大学国际法学院副院长院长。他一直强调培养我们希望我们的学生在世界各地都能自如穿行、游历，这是接受过优质教育的人所具有的重要技能。”





Courtesy Hyperloop One

“Hyperloop One”公司拟在阿联酋建造首列超级高铁。

研究动向

商学

上海纽约大学商学教研中心与全球最大银行卡

组织——中国银联成立联合研究实验室。根据

双方协议，上海纽约大学的研究人员将能访问

中国银联的数据。中国银联每年处理超过140

亿笔交易。

环游亚洲

上海纽约大学环球亚洲研究中心与德国哈雷-维

腾贝格马丁路德大学合作，获得一笔来自大众

汽车基金会的科研基金。该研究基金将用来支

持一项为期三年的名为“印度洋世界与欧亚联

系”的国际暑期学校项目，深度研究印度洋世界

的今昔。

人工智能

由张峥教授参与发起、全球顶级大学程序员编

程的“MXNet”深度学习框架，被亚马逊选中，

用于指导公司的深度学习战略。后续项目

MinPy (minpy.readthedocs.io) 将于近期发

布，多名上海纽约大学计算机专业学生参与其

中。

在线隐私

根据一项广受欢迎的欧洲法律，如果人们不喜

欢谷歌或其他搜索引擎上有关自己的搜索结果

显示信息，可以要求直接删除相关链接。不过，

这项法律并没有你想象中那么有效——Keith

Ross教授发现了一个漏洞，已删除的网页仍具

有个人识别风险。

超级高铁

上海纽约大学学生团队关于在上海和杭州修建

超级高铁的商业提案，入围“超级高铁1号全球

挑战赛”。这项挑战赛有可能为未来中国修建首

列超级高铁前瞻和铺路。

超级高铁是一项大胆的设想，以1000公里时速

在近乎真空状态的管道中进行，彻底革新长途

运输。试图打造全球首个高速运输系统

的“Hyperloop One”公司，正在测试实现这一

可能的所需技术，并寻找修建首列超级高铁的

最佳地点。

上海纽约大学研究团队由15名本科生组成，他

们的提案从全球2600个提案中脱颖而出，成为

35个半决赛入围者之一，也是唯一一个来自中

国的团队。对于赢得比赛的可能性，研究项目

负责人、2019届Bradford Sunderland认为，

团队的竞争实力依赖并兼顾了经济预测、环境

效益，以及社会影响。比赛最终结果预计在3

月公布。

上纽大之窗

75

次学术讲座、
展览和活动



Amitav Ghosh



陈美玲



Samuel Alito

2月27日

纽约大学神经科学家Tom Carew解释

记忆的形成。

3月15日

音乐、数据与区块链：一个数字乌托邦？

行业专家Larry Miller讨论音乐行业的未来。

3月29日

复旦大学国际关系教授倪世雄谈论

特朗普上台60天的表现。

5月6日

纽约野生动物电影节

将来到上海纽约大学。展览期间，知名纪录

片影人将讨论环境话题。

请登录shanghai.nyu.edu/events获取活动详

情及更多讲座信息。

100+

次学生活动，
其中包括招聘会

84

次学术会议、
研讨会等



宁泽涛

新学期，上海纽约大学读书会系列回归，嘉宾包括电视

节目“Def Poetry Jam”中的诗人Reggie Cabico、跨领

域诗人Jen Bervin等。语言教授David Perry推荐嘉宾著

作：

• James Bradley的最新气候变化小说“Clade”，

讲述一个家庭在地球灾难后，艰难度日，危机不断。

• 推理小说《红英之死》是作家裘小龙首部获奖的侦探

题材系列小说。故事发生在20世纪90年代的上海，刑

侦队长陈操办案时，常常引用唐诗宋词表达心境。

• 艺术家Jen Bervin以丝绸为媒介，创作的纳米

诗：https://vimeo.com/167124493

• 请前往shanghai.nyu.edu/lit-series查看读书会系列

的时间表。

由上海纽约纽约大学的教授们主讲的“大家说文”

系列讲座，自2016年初在浦东图书馆举办以来，

广受欢迎。该系列讲座的时间表已安排至2018

年。讲座话题包括：用数学解释世界，基因组研

究与攻克癌症，东南亚土生华人的文化混血网络

等。更多信息请登录pdlib.com获取。

次体育盛事

15

奖学金

上纽大学生入选“苏世民学者项目”

上海纽约大学两名美国学生入选“2018清华大学苏世民学者项目”(2018 Schwarzman Scholars), 他们将在中国著名高等学府——清华大学攻读硕士学位。



Roxanne Roman和Jacko Walz

“苏世民学者项目”竞争向来激烈，此届129名学子获选。上海纽约大学的大四学生Roxanne Roman和Jacko Walz入选。

“苏世民学者项目”以罗德奖学金为范本，致力于让学生了解中国在全世界日益重要的地位，帮助学生迎接并应对 21 世纪的新挑战。罗德奖学金创建于 1902 年，旨在推动国际间的相互理解，促进世界和平。

Roxanne Roman本科就读社会科学专业，她将继续攻读公共政策专业。Jacko Walz本科学习的是商业与金融专业，将继续在国际研究方向深造。

上海纽约大学5位本科生的计算机科学研究论文，入选国际顶级学术会议。

计算机本科生论文入选国际学术会议

2017届的王澈、Cameron Ballard、刘凯文、Carson Nemeika、吴艳秋，获邀在旧金山的人工智能协会年会、圣莫尼卡的ACM网络测量会议上发表论文。这些学术会议竞争可谓相当激烈——录取率仅为14%~25%。

《基于脚本并应用于即时战略的线上进化算法》这一论文，由王澈和纽约大学坦登工程学院的学者联合撰写。

王澈说，这一进化算法“是基于并得到了自然选择启发”，该算法在《星际争霸》游戏的复制模拟器中进行了测试，实验结果显示其性能优于其他现存的算法。

在上海纽约大学教授Keith Ross的指导下，Cameron Ballard、刘凯文、Carson Nemeika和吴艳秋四名学生通过实验发现，Yik Yak这类在美国校园风行的匿名社交应用程序，有可能遭到定位攻击。在其中的一项实验里，每发送一条“Yak”信息，就能准确锁定方位，显示出信息是从学校的哪栋宿舍楼发出的，准确率为100%。

新课程

新课程培养创造力，联通全球教育体系

2017年开设的新课程重点在于培养创造力，同时加强与纽约大学全球教育体系之间的联系。

以下新课程将从不同层面培养学生的创造力：“创业探索”(Entrepreneurship Explored)、 “创新：深圳风格”(Innovation Shenzhen Style)、 “设计思考”(Design Thinking)、 “创造力入门”(Creativity Considered)、 “设计冲刺：现代社会老龄化与人类未来健康”(The Design Sprint: Modern Ageing and the Future of Health) 。

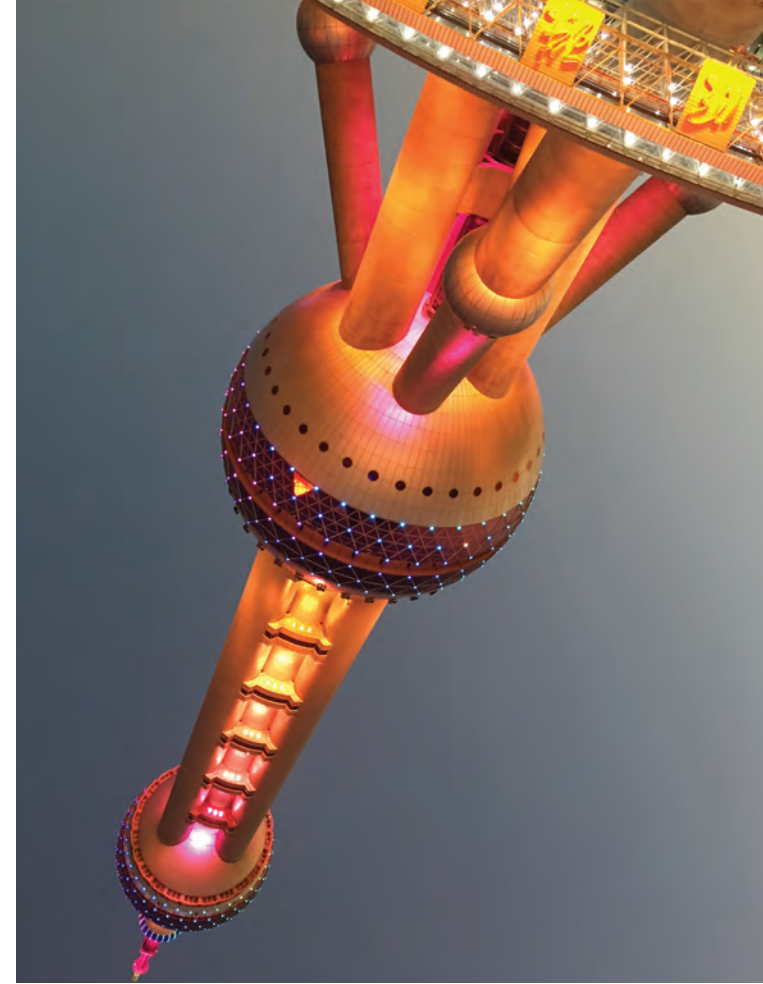
上海纽约大学创造力与创新项目 (PCI) 主任 Brandenburger教授表示，“无论是在艺术、科技或科学领域，创造力在教育方面所发挥的作用比以往任何时候都重要。让学生学会建立自己的知识体系，会让他们受益终生。”

进行海外学习的学生，能在网上选修更多上海纽约大学的线上课程。课程包括商业、互动媒体艺术、社会科学以及中文。

毕业典礼

上纽大首届本科生毕业典礼
东方明珠将点亮紫色

当迎来上海纽约大学首届本科生毕业的历史性一刻时，上海地标东方明珠将点亮校色——紫色。



5月27日 (周六)，上海纽约大学首届本科生毕业典礼之际，上海纽约大学的校色——紫色将在东方明珠闪耀。

东方明珠塔建于1990年代，与外滩隔黄浦江相望。从建成至2007年，为中国大陆地区最高建筑，也是上海的地标性建筑和最易识别的建筑之一。东方明珠的点亮活动，将拉开上海纽约大学首届本科生毕业典礼的序幕。毕业典礼将于5月28日 (周日) 举行，届时，近300位毕业生将在上海标志性文化建筑之一的上海东方艺术中心，从校长手中接过学位证书，为四年的成长和学习画上骄傲的句点。

无法出席毕业典礼的毕业生家长与友人，可通过上海纽约大学组织的直播活动收看，毕业典礼网站也将进行在线直播。

请关注毕业典礼网站网站commencement.shanghai.nyu.edu获取有关毕业典礼的最新消息。

公共卫生

新研究中心成立 应对世界卫生问题

上海纽约大学最新成立的医学与卫生社会人文研究中心，致力于解决关乎人类生存之根本问题——各种疾病对日常生活的影响，并促进对健康和医学的人文研究。中心主任Todd Meyers表示，“我们对健康与治疗的各种观点持开放态度，哪怕是那些并非以生物医学框架为研究起点的观点。”Todd Meyers在上海纽约大学讲授人类学。

中心将于今年2月举办首个研讨会以及一系列关于全球医学史的公开讲座，将邀请纽约大学、麦吉尔大学、约翰·霍普金斯大学、伦敦大学学院的诸多学者来参加。

请前往research.shanghai.nyu.edu/cshm获取更多信息。

这是《上海纽约大学滙刊》的创刊号。杂志讲述上海纽约大学——中国第一所中美合办大学

2012年，上海纽约大学成立。上海纽约大学是纽约大学全球教育体系的一部分，是拥有学位授予资格的三所门户校园之一。上海纽约大学与纽约大学、纽约大学阿布扎比，以及遍布全球主要城市的11个海外学习中心一起，打造出跨越国境的高等教育新模式（见第6页封面故事），获得海内外各界越来越多的赞赏。

一所大学的成长和壮大，与这所学校学生的活力与求知欲息息相关。本期杂志中，您将读到学生的精彩故事。上海纽约大学的学生乐观开朗，充满创造力；他们乐于接受和掌握新的学习方法，了解和欣赏不同的文化。短短四年间，上海纽约大学的1200名优秀本科生发挥着越来越大的影响力——在国际大赛中展露风采，用创新思维收获奖项，发表具影响力的研究论文，获得名校奖学金……

师资力量是一所大学的核心。教授们的专业知识及创新能力，为上海纽约大学成为一所研究

型大学奠定了基础。本期杂志第14页至16页的报道中，您将了解华东师范大学-纽约大学脑与认知科学联合研究中心（上海纽约大学）在跨学科研究与国际合作上开辟的前沿模式。

《上海纽约大学滙刊》每年出刊三期。我们希望它能成为老师、学生、员工必读刊物，也会是首届本科生5月份毕业后，回望母校的一扇窗。同时，我们期望着学术界以外的广大读者了解上海纽约大学，以及它的独特魅力。

请前往shanghai.nyu.edu/magazine，查看中英文版的《上海纽约大学滙刊》电子版。这里会第一时间上传最新内容。希望您喜欢本期的《上海纽约大学滙刊》，更期待您的来稿和宝贵意见。

Tommy Bruce
出品人

联系我们
有任何建议或故事，想和我们夏季的毕业特刊分享吗？欢迎发邮件至shanghai.magazine@nyu.edu

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参加上海纽约大学“院长基金公益服务学习项目”(DSS)的同学，在贵州参与为孩子们修建操场的社区公益项目。

- 2 新闻
- 5 上纽大之窗
- 6 全球大学：迎接新世界
- 12 荣誉册
- 14 世界课题之破解大脑密码
- 18 勇创未来的上海纽约大学——对话Hamilton校长
- 20 艺术联结世界
- 22 室友情谊

(内部参考)

2017年 春

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