

MAKING HISTORY IN THE ARTS & SCIENCES



“At the School of Arts and Sciences, we know history. We know that in the life of every great institution, there are pivotal moments. Moments when, working together, people have extraordinary opportunities to shape the future. We are in such a moment today.”

REBECCA BUSHNELL
Dean of the School of
Arts and Sciences
Thomas S. Gates, Jr. Professor
Professor of English

PENN STARTS HERE

Excellence at Penn depends upon excellence in the arts and sciences. Our students, faculty, and facilities form the University’s intellectual core. We teach students across all 12 Penn schools. Our academic departments span the reach from anthropology and biology to sociology and South Asian studies. Our faculty are engaged in nearly every area of interdisciplinary innovation. Our students and graduates are current and future leaders in every field, across every continent. Investment in SAS is an investment not only in the arts and sciences, but in the entire University, and even the world.

A CAMPAIGN ABOUT THE FUTURE

Making History in the Arts and Sciences will enhance our capacity to innovate and move forward. We will have new buildings that energize the future of science and music. We will have the greatest and most engaged faculty in recent memory. Finally, but perhaps most important, we will have the finest and most diverse student body imaginable, free to participate fully in the life of the University without undue financial burden. This is our once-in-a-century, once-in-a-lifetime moment.

JOIN US IN MAKING HISTORY IN THE ARTS AND SCIENCES.



RENEWING NEW ORLEANS

What did you do to help the residents of New Orleans recover from Katrina? For many students in the Robert A. Fox Leadership Program, the answer to this question will define the rest of their lives.

Only two weeks after Hurricane Katrina devastated New Orleans in 2005, Fox students and faculty began plans to lend their skills to the city's recovery. Each year since, dozens of Penn students have traveled to New Orleans to work with local non-profit organizations under the program's guidance, doing everything from gutting houses and tutoring to documenting and analyzing the effectiveness of the many groups rebuilding the city. Penn's unique academic service-learning approach is the largest recovery effort based at a university outside the region.

Founded in 1999 through the generosity and vision of Robert A. Fox, C'52, the program's mission is to enrich the undergraduate experience in ways that excite and equip students for leadership roles.

"The Fox Leadership in Community Service course changed my life," says Caroline Gammill, C'07. Today, in addition to working for Providence Community Housing, a sister agency of Catholic Charities, Caroline helps to administer Fox Leadership in New Orleans, Louisiana (FLINOLA). "Being in New Orleans at this time is an incomparable experience," says Caroline. "It's an incredible opportunity to learn not only the best ways to help, but about what it means to be a city and a community."

PASSIONATE PEOPLE, REVOLUTIONARY IDEAS, PRACTICAL PURSUITS

"Students come to us with a spark, and we fan it and make it grow. We want to make sure that when they leave here, they have all the interpersonal and intellectual tools that they need to succeed. I never cease to marvel at what our students are doing out there in the world."

JOHN DIJULIO, C'80
Frederic Fox Leadership Professor of
Politics, Religion, and Civil Society

How do we prepare students for a future we can only begin to imagine? How do we stay on the leading edge of research when the pace of discovery accelerates with each passing day?

The answer is connection — between people, among subjects, across schools, and around the globe. We know that our students will live in a world where knowledge is bound by neither time nor place. We know they will need fluency in cultures as well as conversation. And the curriculum we offer helps them master — and connect — the host of subjects, diversity of cultures, and analytic and communications skills they will need.

Yet even from our current position of strength, we face challenges. Our outstanding faculty stretches itself to its limits to teach and shape the many new and interdisciplinary fields we pioneer. To recruit not only our excellent faculty members, but the promising graduate students who enrich all our programs, we must compete with institutions of far greater financial means. We need office, lab, and classroom space to house the future's most exciting initiatives in neural and behavioral science and nanoscience. We need greater capacity to respond to new opportunities and ideas in undergraduate education.

This campaign will allow us to secure resources appropriate to our accomplishments, increasing Penn's ability to compete with wealthy peer institutions. Imagine cutting-edge science facilities on a beautiful, expanded campus. Envision ever more diverse Penn undergraduates, thriving in interdisciplinary programs and meaningful internships. Feel the influence of a well-supported, eminent faculty as it extends beyond campus to inform our understanding of a changing world. At the School of Arts and Sciences, we have a history of doing more with less. Imagine what we can do with more.

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✦ A FACULTY FOR OUR WORLD

“What impresses me is the faculty’s passion, especially their passion for teaching. They have inspired a passion in me that I didn’t even know was there. In so many of my classes, the conversations that began in class extended outside the classroom and continued all the way down Locust Walk. To be that excited about something, and that challenged, is a once-in-a-lifetime experience.”

ANDREW WHITE, C’07

Nowhere else will you find a faculty so willing to engage with students, to lead in research, and to connect with colleagues globally for a better world. SAS faculty stride across disciplinary boundaries to engage expertly in multiple fields. They nurture the next generation of scholars among the School’s graduate students. They ensure a unique and personalized educational experience for each of the College’s undergraduates. Within SAS alone, our faculty provide instruction in 52 majors and 34 graduate groups. As the University’s core faculty, they provide a liberal arts education for undergraduate and graduate students across all of Penn’s schools. In fact, all Penn undergraduates share the liberal arts experience through courses in the School of Arts and Sciences.

By investing in the recruitment and retention of faculty, SAS deepens its commitment to teaching and learning. We seek both term and endowed funds to support recruitment and research. A larger endowment will help us to recruit brilliant minds to our faculty at all levels: both the senior leaders already illuminating their fields and the rising stars who will step into their shoes.

In order to sustain our long tradition of intellectual innovation, the creation of more endowed chairs is a top priority. An endowed chair is a distinction awarded by the University to a scholar or teacher in recognition of past and potential original contributions to the individual’s academic discipline. Endowed chairs and professorships give top faculty additional resources to support teaching, research, and service.

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ADVANCING CITIZENSHIP

What does citizenship mean, and what should it mean in people’s lives? What are the greatest challenges facing constitutional democracies around the world?

These are the questions that political science professor Rogers Smith’s Democracy, Citizenship, and Constitutionalism program explores. The new program includes students and faculty from history, philosophy, political science, and anthropology, as well as law, communications, and education. Smith, whose scholarship focuses on constitutional law and American political thought with a focus on questions of citizenship, race, ethnicity, and gender, is the Christopher H. Browne Distinguished Professor of Political Science.

“It’s wonderful to be able to set up a program like this in the birthplace of American constitutional democracy,” says Smith, “but Penn’s role is equally critical to the program. The University’s long history of interdisciplinary work, its contiguous campus, and strong faculty in so many fields all help to create an atmosphere that enables us to promote research by young scholars, make our work accessible to a wide intellectual community, and address issues of broad significance.”



ACTION, ADVOCACY, AND A CHANCE TO MAKE A DIFFERENCE

“When I got into Penn, my mother’s first question was, ‘How are we going to do this?’” recalls Harlem native Shakirah Simley, C’07. “From the start, my financial aid officer assured me we’d find a way to make Penn affordable for my family, and he was right. Today, you won’t find a prouder Penn parent than my mother.”

An anthropology and urban studies major, Shakirah did not waste a moment of her time at Penn. Getting to know West Philadelphia inspired her to help organize a conference on the University’s ongoing commitment to the neighborhood. The forum brought recommendations from politicians, community members, students, administrators, and faculty.

In her senior year at Penn, Shakirah received the Driscoll Family Endowed Scholarship for Public Service. “Receiving the Driscoll Scholarship was a joy and a relief for me, and for my family. Reducing the financial burden meant that I could continue to participate in every aspect of life at Penn.”

Shakirah is now one of New York City’s first Human Rights Fellows, a position that will let her use the wide range of skills she gained at Penn. “With a Penn education, my potential is limitless,” says Shakirah. “I can’t wait until I’m in the position to return the favor and invest in someone else’s education. Financial aid let me focus on what I want to do.”



A SACRED TRUST

“The scholarship I received made it possible for me to come to Penn and study chemistry. I have remained forever grateful for the opportunity I was offered as an undergraduate student. When I visit Penn today I meet so many talented, hardworking students who also need financial assistance to achieve their goals. Making sure that students like these can afford a Penn education would be one of the University’s proudest accomplishments.”

P. ROY VAGELOS, C’50, Hon’99
Retired Chairman and CEO,
Merck & Company
Former Chairman of the Board of
Trustees and current Emeritus Trustee,
University of Pennsylvania

Every year, some of the world’s most talented young men and women are admitted to the College of Arts and Sciences. For 40 percent of our undergraduates, need-based grants make all the difference, enabling them to accept our invitation and enroll.

Increasing our endowment for financial aid is about excellence, about supporting the very best students regardless of their financial circumstances. To bring the best and brightest to Penn, we need to be able to offer scholarship support for undergraduates equal to that of our peer institutions. Scholarships also support a rich diversity, giving students opportunities to learn from each other.

Currently, Penn funds only 15 percent of its student aid budget from endowment — the lowest percentage by far among our peers. What this means is that we must make difficult choices, using operating funds to provide needed financial aid rather than forging ahead in other areas that would benefit our students.

Building scholarship endowment will enhance our ability to offer competitive, need-based financial aid to all deserving students. No single factor will have greater impact on the future of undergraduate education in the College than increased endowment for financial aid.

We all know the difference a Penn education can make in someone’s life. Our students are the history we make, our proudest legacy. To recruit the most talented students, to educate leaders whose diversity reflects their world, we must strengthen our endowment for financial aid.

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AN INNOVATIVE UNDERGRADUATE EXPERIENCE

“Penn students are uninhibited and unafraid. They’re willing to challenge us, to ask questions, and to meet the challenges we set as faculty. Teaching at Penn forces you to reexamine, to grow as your students grow.”

DENNIS DETURCK, G’78, G’80
Dean of the College of Arts and Sciences
Professor of Mathematics

The School of Arts and Sciences encourages its students to push across boundaries, to question, to lead. We do this by providing a liberal arts education that responds to the challenges facing the world today.

We build on a solid tradition of innovation. The freshman seminars we pioneered over 30 years ago are alive and well, and bring hundreds of first-year students into close contact with distinguished faculty. Our discipline-based critical writing program reflects the University’s deep commitment to developing and refining students’ thinking, writing, and collaborative skills.

Opportunities for our undergraduates to participate in original research abound. The College’s groundbreaking interdisciplinary majors such as Biological Basis of Behavior and Philosophy, Politics, and Economics, as well as credit-bearing, service-learning courses offer students intellectual opportunities available nowhere else. Still more unique opportunities are available through other new undergraduate programs, such as the Vagelos Program in Life Sciences and Management (a joint venture with Wharton), the Fox Leadership Program, and the Fels Public Policy Internship Program.

Today, we seek to strengthen these existing programs and to develop new alternatives that respond to our changing world in innovative ways. Additional resources will enable the College to offer even more undergraduate research opportunities, to establish new interdisciplinary programs that allow deeper exploration of new subjects, and to support internship programs and study abroad.

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APPLYING KNOWLEDGE, ONE SUPER-AUDIT AT A TIME

Penn undergraduates expect to be asked tough questions, but when the Deputy Inspector General of Iraq Reconstruction turned to Dan Mozes (Political Science, C’08) and asked for his opinion during a briefing session, Dan knew that he wasn’t at Penn anymore.

Or was he? Dan and classmate Rebecca Karnovitz (International Relations, C’08) spent the summer between their junior and senior years in Washington, working in the office of the Special Inspector General for Iraq Reconstruction (SIGIR), a temporary federal agency serving the American public as a watchdog for fraud, waste, and abuse of funds intended for Iraq reconstruction programs. Their experiences at SIGIR were part of the Fels Public Policy Internship Program, a unique SAS endeavor that helps undergraduates connect their academic experiences with real-world policy experiences.

“Programs like this are hugely important,” says Dan. “Beyond simply learning how office life works, I had a challenging job in a field I will probably pursue as a career. My work will actually be part of the agency’s final report. Learning isn’t just about taking notes – it’s about applying knowledge. Fels gave me that opportunity.”





HIGH ENERGY

The sky's the limit for Joseph Bennett, a doctoral student in chemistry whose work has already garnered recognition from the U.S. Department of Energy. Joseph, working in the chemistry lab of Professor Andrew Rappe, engineers materials that convert solar energy into hydrogen. He hopes to contribute to a more efficient conversion that will also produce fewer harmful emissions. If he succeeds, his work could lead to the wider adoption of hydrogen as an alternative to fossil fuels. "We're looking at the problem in a new way," Joseph says, "not trying to solve the greater energy crisis in one fell swoop, but working away at it one piece at a time."

Joseph is unusual because he both designs new materials using quantum mechanical models and then manufactures them in the lab. He came to Penn with training as an experimental chemist, and joined Dr. Rappe's lab because it offered him the opportunity to explore theoretical chemistry. "Penn's chemistry department is full of great teachers and thinkers, and from them, I've learned how to be a theoretical chemist as well as an experimental chemist."



TOMORROW'S INTELLECTUAL LEADERS

"I am more and more impressed by our graduate students: they are ambitious, they are intrepid, and their work is making a real impact around the world."

JACK NAGEL
Associate Dean for Graduate Studies
Steven F. Goldstone Endowed Term
Professor of Political Science

Nothing says more about a liberal arts institution than the young scholars it trains. SAS matriculates more than 250 doctoral degree candidates every year. They are the future star professors and the promising researchers who will shape every imagined field of inquiry. They are also the future leaders of many fields outside of academia. At SAS, faculty mentors help them find new ways of blending scholarship and engagement to make a difference in the world.

Our graduate students are essential to the intellectual life of the University. Their fresh ideas strengthen Penn's contributions to new knowledge. Their energy inspires our best faculty. As campus and neighborhood residents, they add to the vibrancy of both communities.

Despite our increasingly strong levels of support for doctoral study, the challenge of attracting the very best candidates remains great. Peer institutions with greater resources can use tools such as summer and dissertation fellowships to offer more attractive packages. Increasing the size of our endowment for graduate education will launch the careers of some of the world's most promising young academics and researchers.

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✦ AT THE CROSSROADS OF SCIENCE AND HUMAN NATURE

“Now is the moment. We’ve got all the pieces. We have the opportunity to be the place where the connections are made from genes through the brain to behavior.”

DAVID BRAINARD
Professor and Chair,
Department of Psychology

The School of Arts and Sciences is uniquely positioned to be a catalyst in an emerging debate at the crossroads where neural and behavioral science, the humanities, and society meet. Technology has made it possible to document how the mind operates on a level previously unimaginable, yielding knowledge that will potentially influence every aspect of our lives.

Our scientists are at the forefront of this revolution. Associate Professor of Biology Ted Abel has identified a protein critical to memory formation. Professor of Psychology Michael Kahana collaborates with surgeons to identify the locus of epileptic seizures. Lucille B. Williams Term Professor of Biology Nancy Bonini has manipulated the DNA of fruit flies in order to explore the role of proteins in neurodegenerative disease. All of them are opening new frontiers in brain science.

In addition to their remarkable research, faculty in the SAS life science departments share an exceptional dedication to teaching and a particular commitment to undergraduates. Every year, legions of students benefit from the opportunity to be part of these world-class research teams.

Investing in science that spans the study of genes, brains, and behavior is a University-wide priority for the *Making History* campaign. A new 100,000-square-foot Neural and Behavioral Sciences (NBS) Building will serve as a natural hub for our emerging understanding of the science of behavior and its applications to a range of disciplines. This expansion of our life sciences complex will be a tool that will serve to attract and retain teachers and scholars of the highest caliber. As the home of some of the College’s largest majors, it will also provide space that will define the intellectual experience of roughly a quarter of the College’s students.

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DEFINING NEW FIELDS

Is criminal behavior a result of neurological dysfunction? Will increasing understanding of the brain give marketers refined tools to reach us with subliminal product pitches? What do we gain – and lose – by using psychopharmaceuticals to enhance cognitive function, rather than just treat deficits?

These are just some of the new questions being addressed by Martha Farah, Walter H. Annenberg Professor in the Natural Sciences. One of the world’s most outstanding cognitive neuroscientists, Farah has devoted much of her career to understanding the mechanisms of vision, memory, and executive function in the human brain. In recent years, her research has shifted to the interface between cognitive neuroscience and the “real world,” and the emerging field of neuroethics.

Today, Farah explores tough questions posed by advances in brain sciences – questions about what effects socioeconomic adversity has on children’s brain development, how neurotechnologies can be used and abused, and what our new knowledge about the brain might suggest about how we think of ourselves. “For the first time, it may be possible to breach the privacy of the human mind,” she says, “and see thoughts, plans, and feelings. The question is not whether, but rather when and how neuroscience will shape our future. The mind sciences are the most exciting branch of science at the turn of the twenty-first century.”



THE NEXT NOT-SO-BIG THING

Physics major Sujit Datta, C'08, doesn't have just one interest. He's a peer advisor and an avid photographer. He edits *The Triangle*, a student-run science and technology journal. He's also been part of one of the University's most promising research teams since he was a freshman.

"Undergraduates get to play a significant role in research here," says Alan T. "Charlie" Johnson, Associate Professor of Physics, whose nanoscale physics team includes Sujit. "Students like Sujit bring a sense of wonder to the lab, a sense that there are no limitations. That's how new ideas and connections are made."

Sujit's own soon-to-be-published research – spawned in Johnson's nanoscale lab – uses scanning probe microscopy to study the properties of graphene, a brand-new nanomaterial that could someday be used in advanced computer chips and ultrasensitive sensors.

"What I love about the research that I'm doing with Dr. Johnson is that it's not just physics – it combines many different fields. At SAS, I don't have to be intellectually confined. I'm encouraged to cut across boundaries. Research like ours thrives because of that intellectual openness."



PUSHING THE BOUNDARIES OF SCIENCE AND IMAGINATION ✨

"The opportunity to have world-class facilities and cutting-edge tools available will be the greatest draw for the best students, the best faculty, and the best industrial partners as we push forward to have an impact on the broader society."

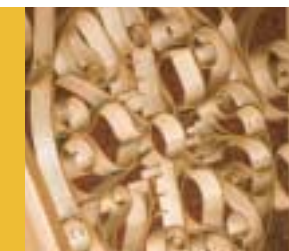
CHRISTOPHER MURRAY
Richard Perry University Professor
Department of Chemistry,
School of Arts and Sciences
Department of Materials Science,
School of Engineering and
Applied Science

Imagine what nanoscience will make possible. Tiny probes capable of detecting cancer in the earliest stages. Smaller, more powerful semiconductors than ever before. Drugs administered at the molecular level.

Penn is at the forefront of this revolution in the emerging field of nanoscale research, a field that scientists and engineers agree will catalyze a whole generation of new technologies. To that end, SAS and the School of Engineering and Applied Science have joined forces to realize a shared priority: the construction of a state-of-the-art nanoscale research and teaching facility.

A gift from Krishna Singh, GME'69, Gr'72, has taken us a giant step forward in creating The Krishna P. Singh Center for Nanotechnology. Here Penn's outstanding engineers, biologists, physicists, and chemists will be able to use the high-performance clean rooms and laboratory space they need to build on the impressive track record that has made Penn one of the nation's leading centers for nanoscale research. The Center will also enhance Penn's efforts in recruiting students and faculty interested in this rapidly evolving field.

SAS and the School of Engineering and Applied Science have joined forces to realize a shared priority: the construction of a state-of-the-art nanoscale research and teaching facility.



✦ TAKING NOTE

“Music is an indispensable component of a complete educational experience. Penn has such a great wealth of resources in music. It’s a pleasure to help channel those resources and make opportunities to experience, enjoy, and learn from music ubiquitous at Penn.”

MITCHELL J. BLUTT, M.D., C’78,
M’82, WG’87
Chief Executive Officer,
Consonance Capital
School of Arts and Sciences Overseer,
University of Pennsylvania

The Department of Music has long been the home of world-famous composers, pioneering music theorists, music historians, and ethno-musicologists. Yet the program goes beyond academic study and analysis: it is also a lively site of community engagement and performance. It is a great liberal arts department of music, truly integrated into the core of the School of Arts and Sciences. From the College House Music Program to public recitals, the department is a part of the lives of thousands of Penn students each year.

Continually ranked among the country’s top 10 graduate programs, the talent of its faculty and graduates is truly breathtaking for a department of its size. The faculty’s long history of distinction includes some of the leading composers of the twentieth century, such as George Crumb and George Rochberg. Some of the most sought-after composers of the twenty-first century, Osvaldo Golijov, Gr’91, and Jennifer Higdon, G’92, Gr’94, are among its graduates.

Despite its national renown, the Department of Music delivers its programming in cramped, outdated, and acoustically inadequate facilities. Its building was never intended for music, and teaching and learning are often interrupted by the noise of buses and other classrooms. There is little provision for the kind of seamless multimedia teaching common in music today. Renovation of the Music Building means creating office, classroom, and performance spaces that reflect the department’s strength and position as a top program. It also means giving the Music faculty — some of Penn’s top teachers — the facilities they deserve.

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NOT MISSING A BEAT

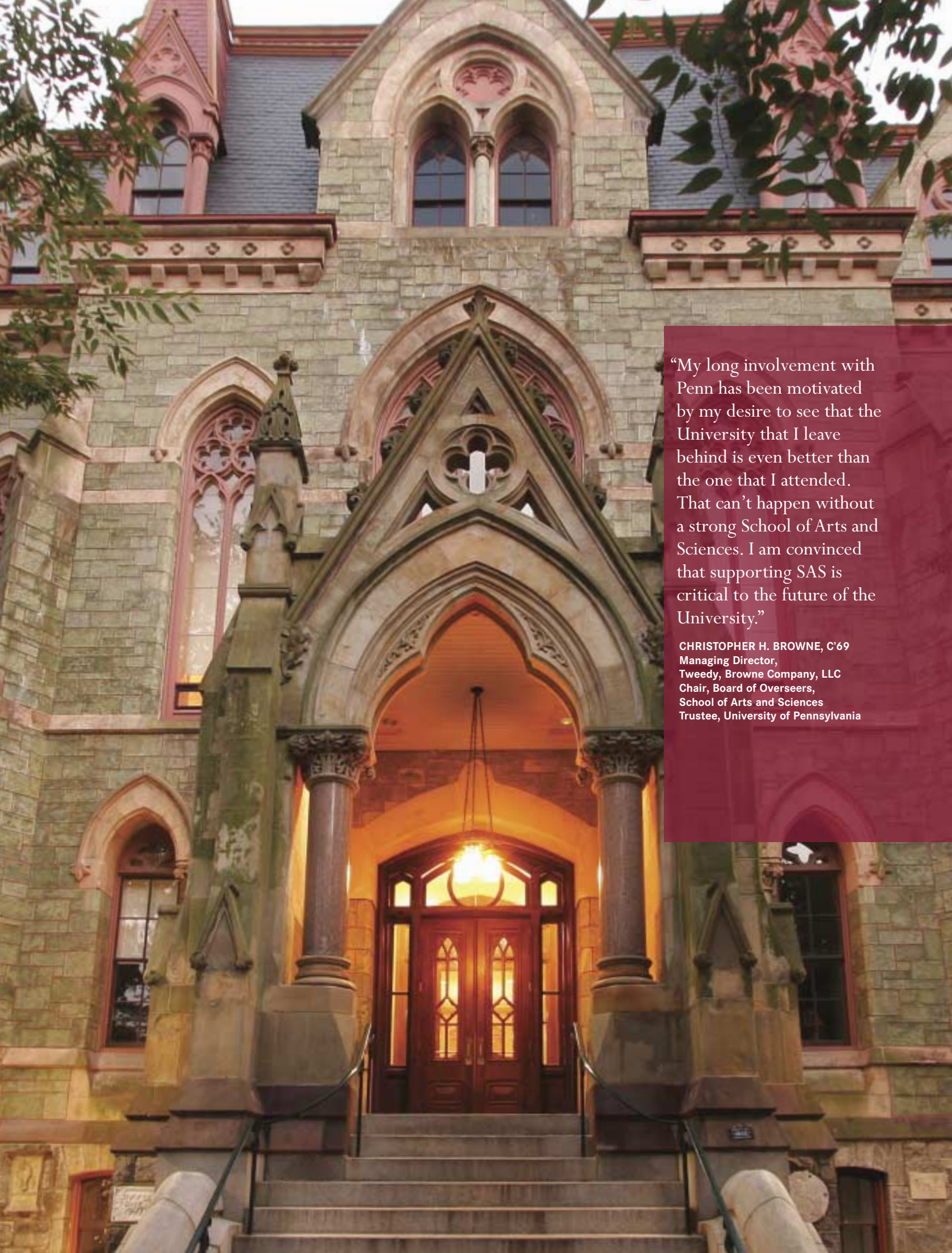
When you meet Associate Professor of Music Guthrie Ramsey, Jr., you know why students flock to study with him. His irrepressible energy and enthusiasm for music of all kinds is infectious.

“I’ve always tried to link my scholarship, teaching, and performance connections,” says Ramsey, an expert on African American music and a jazz musician known for bringing top-name performers into his classes. “When I bring a band into class and demonstrate how we take a song from a lead sheet to its final form in live performance and the studio, students get to experience something that we talk about abstractly in real time. For non-musicians, it’s often a revelation. Sharing my performing life keeps me excited about teaching.”

Ramsey’s scholarship ranges from accounts of his own musical experiences growing up on the South Side of Chicago to the global influence and social relevance of African American music. Crossing academic disciplines and bringing the savvy that the music industry demands, Ramsey instills in students equal respect for what’s come before and what the future may hold.

Ramsey’s teaching offers the kind of vibrant experience that has given Penn’s Department of Music its national leadership position. Still, Ramsey agrees that the coming state-of-the-art building promises to solidify Penn’s position in the vanguard of music programs.





MAKING HISTORY IN THE ARTS AND SCIENCES

“My long involvement with Penn has been motivated by my desire to see that the University that I leave behind is even better than the one that I attended. That can’t happen without a strong School of Arts and Sciences. I am convinced that supporting SAS is critical to the future of the University.”

CHRISTOPHER H. BROWNE, C’69
Managing Director,
Tweedy, Browne Company, LLC
Chair, Board of Overseers,
School of Arts and Sciences
Trustee, University of Pennsylvania



Is an education in the arts and sciences a sound investment?

We proudly answer: Yes. Franklin’s dream of a college that would teach all things useful and ornamental has never been more relevant. At SAS, we make the arts and sciences relevant every day, connecting students’ studies to the world’s challenges and the solutions on the horizon. No school within the University exceeds the scope and breadth of brilliance we apply to our world.

We can guarantee that this academic core of the University remains strong, and that students of merit are allowed to discover their intellectual passions and to hone their abilities for the lives that await them — but only with your support.

Penn’s peer institutions have far larger endowments, and have taken dramatic steps to secure both financial aid for students and the resources to recruit and retain outstanding faculty. Funds earmarked for SAS students and faculty will give us more flexibility and enhance our ability to fulfill our mission.



Together, we can impact all fields of inquiry. Help us nurture future generations of leaders and scholars across the arts and sciences. Join us in meeting the rising challenges and opportunities of this century and beyond. Make history with the School of Arts and Sciences today.

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GOALS AND PRIORITIES

Making History in the Arts and Sciences will support our core priorities:

- * **OUTSTANDING FACULTY**
\$195 million to recruit and retain the world's best teachers and scholars
- * **EXCEPTIONAL STUDENTS**
\$170 million to attract and support the world's best undergraduate and graduate students
- * **EDUCATIONAL LEADERSHIP**
\$50 million to further Penn's groundbreaking approach to undergraduate education
- * **INNOVATIVE NEW FACILITIES**
\$85 million for buildings that will enable tomorrow's breakthroughs

Our Goal: \$500 million

Please visit our Web site at:
www.sas.upenn.edu

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