THE JOHNS HOPKINS UNIVERSITY
KRIEGER SCHOOL OF ARTS AND SCIENCES

Building on Our Scholarly Expertise
What do We Want to do next? Rising to the Challenge

A CALL TO ACTION
Rising to the Challenge: The Campaign for Johns Hopkins will raise unprecedented levels of support to attract, sustain, and further empower the people of Johns Hopkins — our students, faculty, and researchers — who through their work improve the lives of millions around the world. Together with our philanthropic partners we will:

ADVANCE DISCOVERY AND CREATIVITY through support of our exceptional faculty and researchers. Their innovative work drives the development of new knowledge, new forms of expression, and new ways to save lives and improve health, and furthers progress across our core disciplines in science and technology, the humanities and arts, and public health and medicine.

ENRICH THE STUDENT EXPERIENCE by investing in scholarships and fellowships, inspirational spaces for collaborative learning and social opportunities, and new programs that will enhance student-faculty interactions, ensure diversity on campus, link learning in the classroom to life after graduation, and strengthen connections between our students and our surrounding communities.

SOLVE GLOBAL PROBLEMS AS ONE UNIVERSITY by creating new cross-disciplinary solutions in crucial areas such as revitalizing cities around the world, advancing individualized health, understanding how we learn and teach, and attacking the root causes of global health problems.

Enrico Federico, a professor of oncology and radiology, has been named chair of the Department of Radiation Oncology. He is a clinical expert in radiation oncology and in his new position will improve patient care and train the next generation of radiation oncologists.

RISING TO THE CHALLENGE

Professor Beverly Wendland — former chair of the Department of Biology — became the James B. Knapp Dean of the Krieger School of Arts and Sciences in February 2015. Since then, she has been working tirelessly to position the school for its next great accomplishments.

“Thanks to the vision and generosity of our donors, we have already made incredible strides in the university’s Rising to the Challenge campaign,” she says. “The dedication of our alumni and friends is awe-inspiring to me and has led the Krieger School to be known around the world as a leader and standard-bearer. Now is the perfect time to ask ourselves, ‘What do we want to do next?’ With continued support, I believe the goals we are pursuing will enable us to take the Krieger School to the next level of excellence.”

Wendland says that while the Krieger School may be considered small in size compared to other institutions, its size is actually an advantage in many respects.

“Because we are not monolithic, we are able to seek out the very best students and professors; determine the areas of scholarship we wish to pursue; meld our research across divisions and departments; and connect even our newest freshmen with professors who are world-class leaders in their fields,” she says. “Our unwavering focus on providing a comprehensive liberal arts education creates an aura of broad intellectual freedom that sets us apart. It’s the kind of freedom that allows students to design their own course of study, enables faculty members to pursue new and unusual avenues of research, and encourages the Johns Hopkins community to ask (and answer!) big and challenging questions. Our academic departments — both large and small — are continually ranked among the best in their fields.”

Wendland, who was recently named a fellow of the American Association for the Advancement of Science, worked with her leadership team to craft four overarching goals for the Krieger School:

• Inspiring Student Learning
• Enhancing Faculty Excellence
• Shaping Interdisciplinary Research and Projects
• Enriching the Humanities

“I hope these goals will inspire people to join us as we build on the successes of our ambitious campaign,” says Wendland. “As evident as our excellence may be, we still have needs to address, we still have discoveries to make, and we still have new knowledge to create.”
At Johns Hopkins, it is hard not to be inspired by our students as they make the transition from new, sometimes tentative learners into confident researchers and astute scholars. But many of our most promising students are hampered by financial limitations. We believe all Hopkins students should have equal opportunity to follow their chosen courses of study to the fullest extent.

A Johns Hopkins education is transformational. Continued support of the following efforts will enable students to participate in the profound and life-changing academic experiences that happen here and will create the next generation of experts and leaders.

- **Endowed Scholarships**: We are committed to creating undergraduate classes comprised of the most talented, intellectually gifted students. With additional financial aid support, we can ensure that our bright, creative students can access and better afford a Hopkins education.

- **Research Opportunities for Every Undergraduate**: As the nation’s first research university, we want every Hopkins undergraduate to have the opportunity to engage in meaningful research. Such experience leads our students to build skills in deep critical thinking and analysis, resiliency and creativity in problem-solving, and strong communication practices — all skills that will allow them to thrive and excel as leaders in their fields.

- **Dean’s Undergraduate Research Awards (DURA)**: These grants promote independent research projects among our exceptional undergraduates. DURA recipients become intimately familiar with the research process, including how to identify a problem, pose questions, gather and analyze data, and defend and present their conclusions — skills that are valued across all fields. We need support to create more DURA grants for students eager to conduct research.

- **Graduate Fellowships**: At the Krieger School, our graduate students hold outstanding intellectual promise and an evident talent for and commitment to research and teaching. Fellowships enable our students to immerse themselves in the rigor of high-level academic inquiry, support their work as teachers, help fund opportunities like attending academic conferences, and provide resources for archival or site-based research as they prepare to be the scholars and scientists of tomorrow.

- **Dean’s Teaching Fellows**: Designed to foster innovation in the undergraduate curriculum and career skills for graduate students, these competitive, sought-after fellowships give advanced graduate students experience in creating and teaching their own undergraduate course — crucial professional training for their future work as teacher-scholars in the academy. The courses follow the Hopkins tradition of an engaging seminar setting.

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**THE JOHNS HOPKINS UNIVERSITY KRIEGER SCHOOL OF ARTS AND SCIENCES**

**Exploring Historical Complexity**

Arielle Kaden, a Writing Seminars major and Jewish studies minor, entered Johns Hopkins with a gift for storytelling and an interest in exploring what it means to be Jewish and European in the 21st century. Her research project, Saving the Shtetlach, (funded in part by the Koren Fund for Holocaust Research and a Dean’s Undergraduate Research Award) focuses on the resurgence of Jewish life in Europe in the post-Holocaust era and studies how the past affects the present, how religion shapes identity, and how memory translates into history. Kaden visited many countries including Belarus, Poland, and Lithuania to conduct interviews in order to develop a deeper understanding of the history of Jewish life in Europe and how this history affects young European Jews and non-Jews today. Her research is documented in her blog, Saving the Shtetlach.

"This project has opened my eyes to the historical complexity of Jewish life in Europe and the severe importance of maintaining religious diversity in society," says Kaden. "My project has changed me because while I have been able to answer many questions I had at the beginning of my journey, every answer sparked more questions."

**Endowed Scholarship is a “Game-Changer”**

Emergency medical technician. Public health major with a pre-med emphasis. Research assistant. Undergraduate Connor Steele-McCutchen manages all these roles and more. An EMT since high school, he volunteers with the Hopkins Emergency Response Organization staffed entirely by student volunteers and backed up by the Baltimore City Fire Department. He has put the knowledge gleaned from his coursework to use as a research assistant at the Bloomberg School of Public Health. Without a scholarship, the opportunities for this budding student, who sees his future as a general practitioner working with an international aid organization, would have been severely limited.

"The Stuart and Ellen Katchis Family Scholarship — it’s been a game changer, honestly," says Steele-McCutchen. "I would not be able to be here without that. Coming from a farming family in Massachusetts, I did not have a lot of financial resources behind me. At Hopkins, I now have a huge opportunity to explore the work I really care about. I’m eternally grateful for that opportunity — not a lot of people get it."
One of the characteristics that makes Johns Hopkins unique is its cadre of world-renowned professors, scientists, and researchers. They consistently set the direction for new fields of research and scholarly study. Our faculty members hold some of the world’s most esteemed prizes and awards such as the Nobel, Guggenheim, Packard, and Simons. The competition for these highly skilled individuals, however, is intense. We are constantly challenged to attract and retain scholars representing a wide range of disciplines and cultures, who are leaders in their fields, and who will inspire our students to think deeply, creatively, broadly, and globally. Your support will enable us to offer resources such as start-up laboratory equipment or engagement with scientific research hubs like the Large Hadron Collider in Switzerland.

- **Faculty Innovation Awards**: With the help of generous donors, we have started a fund for scientists and professors that will either position them to win federal funding for their research or that will enable them to move groundbreaking research to the next level.

- **Endowed Professorships**: Endowed professorships give our school the power to recruit and retain talented scholars. They also allow academic departments to pursue new interdisciplinary directions. To hold an endowed professorship at Johns Hopkins is a prestigious honor that is highly valued, and it signals the university’s commitment to its intellectual leaders.

- **Fund for the Future**: This unique effort will provide support to help us attract and keep top-notch researchers and scholars in all disciplines, with an emphasis on growing diversity and inclusive excellence among our faculty. If we expect our students to graduate with a comprehensive, global sensibility, then we must make sure they are exposed to a broad range of perspectives and the most current scholarship.

- **Start-up Support for New Faculty**: When we hire new faculty, we want them to hit the ground running. Often new professors — particularly in the natural sciences — arrive on campus already involved in groundbreaking research projects, and to accelerate their impact they may need funding for a postdoctoral student or lab support, including specialized equipment.

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- **Exploring the Past to Understand the Present**: Professor Lawrence Principe, PhD ’96, loves to teach his students about “the dynamic development of science.” The Drew Family Professor of the Humanities in the Department of History of Science and Technology, Principe researches and teaches the history of chemistry and alchemy. His main goals are to “re-situate alchemy in its due context” and to display its influence in the overall history of science.

  “We don’t want to have a history of science that’s written backwards — that only tells us where our current ideas come from,” he says. “We want a truer depiction of the development of science. The truth is, astrology, alchemy, and magic were widespread practices that contributed to modern science and involved extremely intelligent people.”

  Principe teaches classes on ancient and medieval science, the scientific revolution, organic chemistry, and science and religion. He also teaches a graduate seminar called Wretched Subjects and shows students how intricate astrolabes (shown in photo) were created and used to make astrological readings. In addition, he maintains a laboratory in the Department of Chemistry — where he holds a joint appointment — and where he “replicates alchemical experiments in order to get a better handle on what my historical characters were actually doing and seeing, as a further way of understanding their ideas.”

  A recipient of a 2015 Guggenheim Fellowship, Principe recently uncovered a sample of supposed alchemically prepared gold during a visit to the Académie des Sciences in Paris. The find, sealed for more than 150 years, is significant because it shows that alchemists were still experimenting with transforming matter in the 1850s, even after alchemy had been largely discredited and chemistry had gained its foothold as a modern science.

  “From a historical standpoint, this shows how alchemy and transmutation were very much still alive in the 19th century,” he says. “And to be very colloquial about it, I just think it’s really cool that the sample was still there and that the archivists let me unseal it.”
“As evident as our excellence may be, we still have needs to address, we still have discoveries to make, and we still have new knowledge to create.”

— Beverly Wendland
James B. Knapp Dean
From uncovering rare finds in archaeological digs in Egypt to developing a drug that can slow the ravaging effects of Alzheimer’s disease to harnessing the possibilities of big data, researchers and scholars at Johns Hopkins understand that broad skills are needed when tackling big ideas. Working across disciplines and collaborating with other divisions within Johns Hopkins leverages our strong foundation for finding new knowledge. With a liberal arts focus, the School of Arts and Sciences is uniquely positioned to create and engage in work across many diverse fields. With support for new ideas for interdisciplinary projects, we can build the foundations for new discovery.

• **Global Programs**: The Krieger School is home to a wide array of global programs such as international studies, Africana studies, East Asian studies, Islamic studies, Jewish studies, and Latin American studies. Support for these programs will enable us to forge unique partnerships and programming, leading to new research and teaching techniques that benefit faculty and students alike.

• **Krieger School/SAIS Initiatives**: An enhanced partnership has been established between the Krieger School and Hopkins’ Nitze School for Advanced International Studies. With additional support, we will be able to expand our capacity to conduct major research on a global scale and create new knowledge around the world.

• **Durable Research Infrastructure**: At the Krieger School, research takes many shapes, depending on the discipline. Sometimes, unforeseen costs can arise in the midst of a complex research project, or a scientist might require new resources to access the university’s shared infrastructure facilities. Durable research infrastructure funds assure our scientists and scholars that their research will continue, no matter the circumstances.

**Slowing the Onset of Alzheimer’s Disease**

Michela Gallagher, the Krieger Eisenhower Professor of Psychological and Brain Sciences in the Krieger School, is on the verge of something really big. She and her team, which includes researchers from multiple divisions of the university, have adapted a drug — originally used to treat epileptic seizures — that appears to dramatically slow mental decline during the pre-Alzheimer’s state. If she is right, it could mean that people with Alzheimer’s might never actually develop the symptoms, or at least have them delayed for a really long time. Imagine the impact that would have on individuals and families all over the world. The team is preparing to launch a phase three, worldwide clinical study of the drug that will test its efficacy and possible side effects in hundreds of participants at sites around the world.

“For every year you can slow the progress of amnestic mild cognitive impairment [the pre-Alzheimer’s state], you decrease the prevalence of the population with Alzheimer’s dementia by 10 percent,” says Gallagher. “If you can slow it by five years that means you can decrease the population with dementia by half.”

Gallagher is not conducting this research in a vacuum. She collaborates with members of the Johns Hopkins Alzheimer’s Disease Research Center, professors from the School of Medicine, and faculty members in the Bloomberg School of Public Health. The Whiting School of Engineering’s Center for Imaging Science is processing the hundreds of brain scans.

This type of interdisciplinary research has the potential to change lives.

“The work has amazing implications for public health,” says Gallagher. “This is something I just have to do. I’ve got to see it through.”
At Johns Hopkins, we know a thing or two about the humanities. Humanities studies have been at the heart of the university since its founding in 1876. Our first faculty member, Basil L. Gildersleeve, was a professor of Greek. He championed the German seminar model of scholarship, which combines teaching and research — a model we still practice today. Over the course of the university’s history, the legacy of humanities studies has only grown richer. We are the first in the nation to offer a doctoral degree in Near Eastern studies. Our Writing Seminars faculty have earned many accolades, including the National Book Award and the Pulitzer Prize. Our humanities graduates direct top-tier students and faculty. With a brand-new film center in a burgeoning arts district a mile south of the Homewood campus, Johns Hopkins is poised to compete with some of the nation’s most prestigious film schools. In partnership with the Maryland Institute College of Art, we are bringing academic excellence to the arts in a whole new way. We are enhancing the humanities community by enriching the teaching, learning, and creation of new forms of storytelling. Support is needed to help humanities. and outside the world of scholarship.

At its core, a humanities education is about content — the study of language and literature, history and art, the story of human creativity and intellectual life that makes our world and our lives richer. And a humanities education is also about method: how to conduct research and analysis; how to develop and nurture the intellectual curiosity and depth that lead to unique perspectives on problem solving. In today’s environment, where we are inundated with huge amounts of information, it’s the skills we learn through the humanities — critical thinking, data analysis, careful listening, and clear writing — that enable us to identify patterns, make connections, and find answers. While we continue our tradition of intellectual leadership, there are many more innovative possibilities yet to be explored.

- The Alexander Grass Humanities Institute: By creating an umbrella institute for our many humanities areas, we secure the Krieger School’s position as a standard-bearer for the transformative power of the humanities. The institute will give us a bigger stage on which to showcase and share our ground-breaking research in the humanities, and will help us recruit top-tier students and faculty. With additional support, the institute will be able to bring visiting professors to campus, host international seminars and symposia, and provide stipends to graduate students.

- New Research and Programming: Creating research-based humanities courses for freshmen is just one way to provide analytical and critical thinking skills necessary for successful careers in and outside the world of scholarship. By introducing students to humanities disciplines at their highest level, students engage in the kind of creative, intellectual inquiry that connects humans across time and space.

- Hopkins at Station North: With a brand-new film center in a burgeoning arts district a mile south of the Homewood campus, Johns Hopkins is poised to compete with some of the nation’s most prestigious film schools. In partnership with the Maryland Institute College of Art, we are bringing academic excellence to the arts in a whole new way. We are enhancing the humanities community by enriching the teaching, learning, and creation of new forms of storytelling.

- Tomorrow’s Humanities Experts: Awareness of the humanities can be raised long before students reach college age. As a leader in the field, the Krieger School aims to cast a wide net to create early interest in the humanities. Support is needed to help us spark the interest of young people and prospective students and bring them to campus to experience Hopkins humanities firsthand. One way to achieve this is through a nationwide essay and poetry contest for high school students interested in the humanities.
SUPPORT THE FACULTY, STUDENTS, AND PROGRAMS OF THE KRIEGER SCHOOL

The Krieger School of Arts and Sciences seeks to raise $550 million to achieve its ambitious goals. As of the end of 2015, more than half of that total was raised, thanks to support from our generous donors and friends. Your gifts will help us create new knowledge for the world, prepare the leaders of tomorrow, and bring the best and brightest faculty members to our campus.

Your Gift | Example Impact
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$3 million | An endowed professorship
$1 million | A visiting professorship or faculty scholar
$500,000 | An endowed graduate fellowship
$100,000 | An endowed undergraduate scholarship
$10,000 | Summer research grants for undergraduates
$10,000 | An international study experience
$5,000 | A Dean’s Undergraduate Teaching Award

MAKE A GIFT

With its storied history and positive future, the Krieger School of Arts and Sciences is poised to achieve its next level of greatness. We cannot, however, do it alone. Please participate in our Rising to the Challenge campaign and be part of our future.

CONTACT US TODAY

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Connecting Medicine and the Humanities

In 1990, Peter Sadow ’94 signed up for Professor Betsy Bryan’s class Pyramids, Temples, and Tombs because he needed an elective and thought the class was going to be “fun and easy.” Turns out he was half right. “I loved it,” Sadow reflects. “But it wasn’t easy.”

Sadow planned to go to medical school, but he was hooked on archaeology. So he studied biology and squeezed in Near Eastern Studies courses whenever he could. He even convinced Bryan to take him on an archaeological dig in Egypt when he was an undergraduate, a privilege usually reserved for graduate students.

Sadow is now an assistant professor in pathology at Massachusetts General Hospital and at Harvard Medical School. His fascination with Egyptology may have started as a lark, but it was the theoretical aspect of the field that drew him in, and the critical thinking he learned that continues to influence the work he does today. As a pathologist, Sadow says, “I’m an answer-finder… I diagnose people’s cancer every day. I figure out the puzzle.” But the practice of asking questions and deducing answers from a limited amount of historical evidence trains a researcher to think more broadly and creatively, he says. Humanities research, by its very nature, introduces a human component and a broader worldview.

“Studying the humanities gives you that perspective that you don’t get from figuring out how a cell works or understanding tumor biology,” says Sadow. “Those things are very non-person specific. But how [physicians] treat patients in the medical field is extremely person-specific.”