

INSIDE OREGON

NEWS FOR AND ABOUT THE PEOPLE SUPPORTING THE UNIVERSITY OF OREGON WINTER 2017

Impact and Curiosity Come to Life



UO unveils architectural renderings of the
Phil and Penny Knight Campus for Accelerating Scientific Impact.
See story, page 3.

MUSICIAN PHYSICIAN

Scales or scalpels—for Ricky Waterman, it's not an either-or decision. The pre-med biology major is gearing up for his MCATs. But that doesn't stop him from playing viola in the University of Oregon Symphony Orchestra. Or working at the Erb Memorial Union. Or serving as vice president of Sigma Alpha Mu fraternity.

All that hard work and time management experience is going to come in handy. So is the practice, precision, and fine motor control that comes with playing an instrument. Because Ricky's ultimate goal—his aspiration since high school—is to become a cardiovascular surgeon. Or a neurosurgeon.

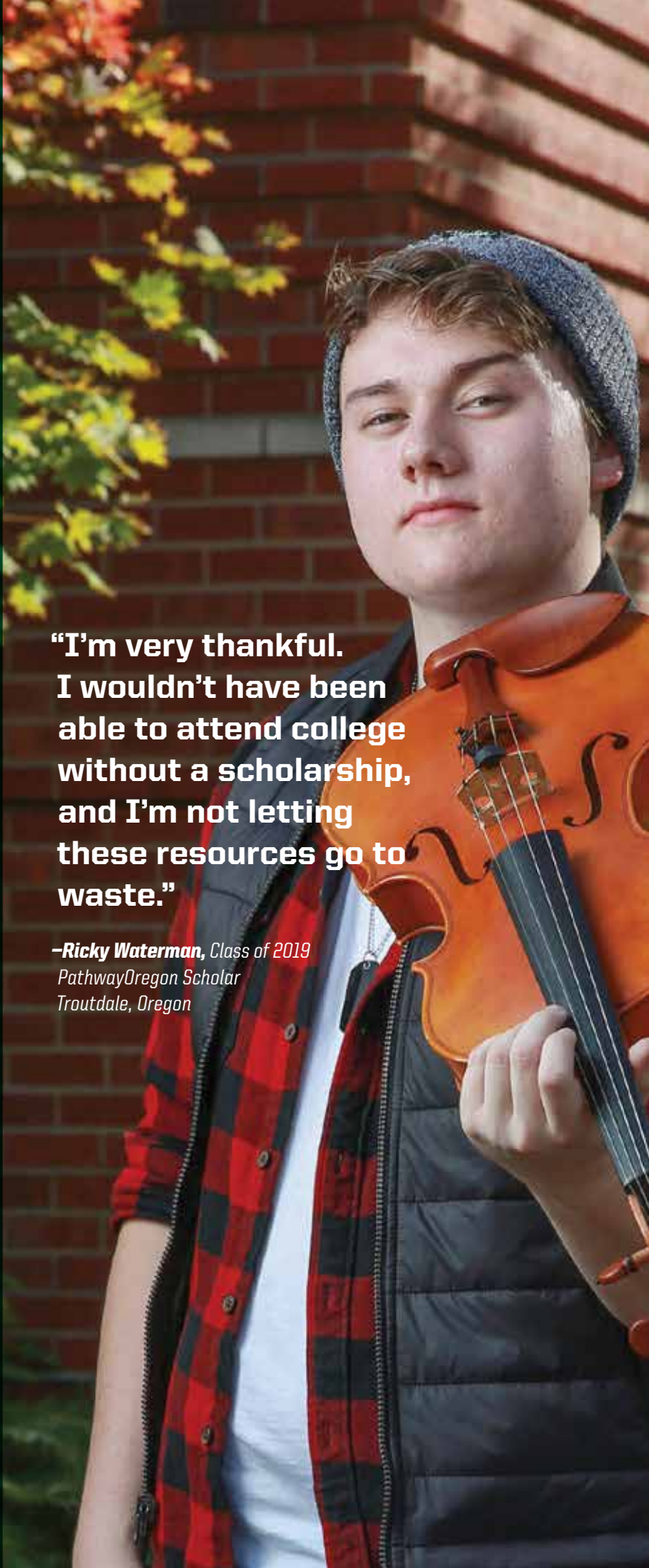
Either way, this first-generation college student is going to perform exquisitely in the operating room. Most likely, on a concert stage, too.

The Right Path

Without PathwayOregon, Ricky's dreams of medical school would be just that—dreams. It's not that he wasn't college material. In fact, Ricky was accepted to several schools. He vividly recalls looking at his stack of acceptance letters, and being hit hard with a sad irony: after working hard and making the grade, he couldn't afford college.

Then he got another envelope. The one with the UO's PathwayOregon promise, a guarantee to qualified Oregonians that tuition and fees will be covered for four years. In addition, the scholarship program gives students academic and career support. It's a prescription for success—during school, and after graduation.

Photo by Aaron Montoya



“I’m very thankful. I wouldn’t have been able to attend college without a scholarship, and I’m not letting these resources go to waste.”

—Ricky Waterman, Class of 2019
PathwayOregon Scholar
Troutdale, Oregon

INSIDE OREGON

*Cover: Bridge view of Knight Campus
Rendering by DBOX*



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Focus, determination, and failure have shaped the upward trajectory of Manju Bangalore—physics major, pilot, NASA intern, Miss Oregon contestant, and founder of her own nonprofit. Next on the list for this UO scholarship recipient: astronaut.



20 **TEN WAYS TO GIVE**

Highlighting opportunities for donors to help the UO and transform lives.



Fundraising Factoid ▲

Originally built in 1921, the UO's music school consisted of Beall Concert Hall, a two-story building, and a repurposed World War I army barracks. Despite additions in the 1950s and '70s, space for teachers and musicians was still limited. Thanks to donors, the expanded, renovated MarAbel B. Frohnmayer Music Building opened in 2009 (see story, page 6).

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Editor
Ed Dorsch, BA '94, MA '99
Writers
Ed Dorsch
George Evano
Jim Murez
Sharleen Nelson, BS '06
Laurie Notaro

Inside Oregon is published by
University Communications
Phone: 541-346-3016
Fax: 541-346-2574
E-mail: giving@uoregon.edu

Mailing Address
1720 E. 13th Ave.
Suite 312
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97403-2253

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\$1.73 Billion

\$2 Billion

- Student support: More than \$315 million
- Capital construction and improvements: More than \$296 million
- Faculty support and academic programs: More than \$1.1 billion

Changing Lives on Campus



The turn of the final page of the calendar is for many a time of reflection, joy, and celebration. I, for one, am so enthusiastic about the progress here on campus. I am pleased with the strides we have made this year in heightening the conditions for teaching and research excellence, and improving student access at the University of Oregon.

Great things are happening here at the UO, which you can read about in these pages: see the designs for the first phase of the Knight Campus, which we break ground on next year. We have increased support for students, including Oregonians such as Ricky Waterman, Manju Bangalore, and Kelly Vuong, and you can read about them here. Learn about the first investments of our new Presidential Fund for Excellence, made possible by an extraordinary \$50 million gift, and how to support investments in excellence through the President's Success Fund. Also, the participation of donors and alumni in activities such as "Live, Learn, Play" are all evidence that momentum is with us.

This is also a time of year when we give thanks. I am so grateful to you, our alumni, donors, friends, and campus community, for what you give to the University of Oregon. Together we are poised to make a significant impact, leveraging to the maximum every gift, grant, state allocation, and tuition dollar to make our campus, community, and world a better place. What a tremendous gift.

Thank you, and Go Ducks!

A handwritten signature in black ink that reads "Michael Schill". The signature is written in a cursive, flowing style.

Michael H. Schill

President and Professor of Law

Unveiling plans for the future

*Courtyard
Rendering by
DBOX*



On October 27, the UO unveiled architectural renderings of the Phil and Penny Knight Campus for Accelerating Scientific Impact, revealing a singular design where impact and curiosity will come to life.

New illustrations and three-dimensional models of cutting-edge labs and open spaces mark the most tangible expressions yet of the \$1 billion vision, focused on dramatically accelerating the process of turning scientific discoveries into societal benefits. Launched last year, the ambitious effort to rethink research, science education, and innovation is made possible by a \$500 million lead gift from Penny and Phil Knight, who earned a business degree at the UO in 1959, and augmented with \$50 million in state bonds.

Groundbreaking is scheduled for early February on the \$225 million, 160,000-square-foot first phase, along the north side of Franklin Boulevard between Onyx Street and Riverfront Parkway. Researchers and students are scheduled to move into the world-class facilities in early 2020.

To learn more, visit around.uoregon.edu/renderings



*North Campus
Rendering by
DBOX*



*Lab View
Rendering by
DBOX*

Philanthropy Files

DONORS MAKE THE DIFFERENCE

TYKESON HALL CONSTRUCTION TO BEGIN

The UO broke ground this fall on Willie and Donald Tykeson Hall, a \$39 million facility going up between Johnson and Chapman Halls that will accelerate the university's efforts to lead the way and address a growing challenge in higher education.

Tykeson Hall will help the UO demonstrate how it can offer a greater return on investment for students and their families and show that education in the liberal arts can launch them on the path to lifelong career success.

"Today we celebrate potential—for this building as well as future Ducks," said President Michael H. Schill. "We're very grateful to Don and Willie Tykeson, the rest of our generous donors, and the State of Oregon for its funding commitment."

PHOTO BY KELLY JAMES



At the Tykeson Hall groundbreaking: 2017 economics graduate Kathryn Sternberger, UO president Michael Schill, Willie Tykeson, and W. Andrew Marcus, Tykeson Dean of Arts and Sciences.



Scheduled to open in fall 2019, Willie and Donald Tykeson Hall will be located between Johnson and Chapman Halls.



PHOTO BY JACK LIU

Alumni from the Class of 1966 celebrated their 50th reunion year with fun events and a fundraising drive for PathwayOregon.

CLASSY MOVE

Inspired by a \$50,000 challenge gift from Nancy and Dave Petrone, BS '66, MBA '68, the UO Class of 1966 has reached its goal of \$200,000 to establish an endowed PathwayOregon scholarship. It's the most that any class has raised for an endowed scholarship. An exceptionally high number of class members participated, helping the group reach their goal in record time. The scholarship will support proficient, lower-income Oregonians with financial assistance and academic support to help them succeed once they're here.



President Michael Schill (center) and Interim Vice President for Student Life Kevin Marbury (second from right) with members of the Black Student Task Force.

BLACK CULTURAL CENTER

Construction planning for the UO’s new Black Cultural Center is underway now that fundraising has passed the halfway mark of \$1.5 million, thanks to several major gifts and a big boost from a grassroots fundraising campaign.

Recent gifts include \$150,000 from the Oregon Community Foundation, a \$200,000 anonymous gift, and additional

commitments totaling \$200,000. The project also has received more than 100 individual donations, spurred by a \$10,000 challenge gift from the Black Alumni Network of the University of Oregon Alumni Association on the UO’s May 18 giving day.

Donors Nancy and Dave Petrone were so moved by the grassroots “DucksGive” campaign, they added to their initial \$250,000 gift that jump-started the project.



Beverly Jean Lewis



Leona DeArmond

LEGACIES OF TWO ALUMNAE LIVE ON

This fall, we mourned the loss of two dear friends: Leona DeArmond and Beverly Jean Lewis. An alumna, friend, and dedicated Duck, Leona died September 5 at the age of 88. A 1951 UO music graduate from Tillamook, she studied voice and sang in the university choir. Leona and her husband, Robert, met as undergraduates, and have given generously to the UO.

“Leona was one of our most loyal Ducks,” said Michael H. Schill, UO president and professor of law. “The impact of the DeArmonds’ contributions is evident across our campus—and through the lives of many students, faculty members, and alumni.”

Beverly Lewis, one of our most gracious and generous alumni, died October 20 in Newport Beach, California, at the age of 90. Together with Bob Lewis, her late husband, Beverly made visionary gifts supporting the broadly interdisciplinary “team” approach to science the UO has since become known for.

Schill said Beverly Lewis’ compassionate spirit will live on in the work being done at the UO science facilities bearing her name.

“The University of Oregon community has lost a very special friend with the passing of Beverly,” Schill said. “We will be forever grateful to her and Bob for their love for the UO and their amazing, generous contributions to science and research.”

Site and Sound Improvement



PHOTO BY CHARLIE LITCHFIELD

Since a donor-funded renovation and expansion was completed in 2009, students and faculty members have put the MarAbel B. Frohnmayer Music Building to good use

Bob Ponto can vividly recall the first time one of his bands practiced in Aasen-Hull Hall, the rehearsal space in the MarAbel B. Frohnmayer Music Building. Added during a donor-funded expansion in 2009, it features excellent acoustics and a recording studio.

And it has room—enough for his bands' more bombastic pieces, which had been off limits for the first 17 years of his tenure on the School of Music and Dance faculty. All of the old practice spaces were so small, he says, that the music would have overpowered the room.

"I learned that the hard way," joked Ponto, an associate professor and assistant dean.

As his musicians began playing in the gleaming new practice and performance space for the first time, he stood there and took it all in—the fullness of the notes, the perfect level of reverberation, the pure feel of the music.

"I was like, 'Ahhhhhh,'" said Ponto, grinning and arms spread wide. "We finally had the space that was adequate to hold the group and to hold the music."

ELBOW ROOM

Finally, enough space—it's a common refrain from faculty members who know both the old and new music building. But the renovation (the first new construction for music in three decades) was also to make the school more

“The main difference between prior to 2009 and after 2009 is that we have some massive possibilities, and we don’t know what some of them are.” —Dave Mason, Director of Facilities Services

functional, improve the technology and acoustics, and create spaces to serve students, teachers, and performers.

The transformation began in 2005, when generous benefactors and alumni Robert, BBA '52, and Leona DeArmond, BS '51, announced a challenge gift to provide a modern and more spacious facility for the school.

That gift inspired philanthropist and longtime university friend Lorry Lokey, along with Thelma Schnitzer, BMus '40, and others to join the chorus, ultimately raising \$10.3 million of the \$19.3 million project.

At the request of Lokey, it was named after MarAbeL Frohnmyer, a 1932 UO alumna who was known for her passionate support of music and the arts, and as the mother of then university president Dave Frohnmyer.

Two new wings were delicately grafted onto the school’s original brick buildings, creating a seamless appearance from its exterior and adding 50 percent more square footage. Once you step inside, however, you begin to get a sense of the tremendous change that came about because of the donors’ generosity.

Not far away from the iconic and stately Beall Concert Hall is the revolutionary Aasen-Hull Hall, and one of two state-of-the-art recording studios. Classic-looking original hallways lead to the futuristic and airy Foo Lounge. Out of sight is the high-tech infrastructure designed to adapt to evolving technologies, in addition to other renovations and updates. Musicians whose predecessors previously had to compete for stairwells or bathrooms to practice in now have dedicated rooms to choose from.

The once quaint yet constrained facility was upgraded to help prepare students forging music careers in the 21st century.

TOP BRASS

Juan Valdez’s practice demands are different from most music performance majors.

The junior tubist can’t plunk down just anywhere and play. He needs a bigger room, especially if he’s practicing with a brass quintet or other ensembles.

Except for peak times at the end of the term, he’s had no trouble getting it. And the acoustics those rooms deliver is crucial for his work.

“When you are in a really nice room, after you cut off the note you get to hear this little overtone in the air from all the sounds,” he said. “Having that nice of a room—especially a big room with really good acoustics—you can’t get better than that.”

Reliable access to great spaces isn’t just convenient and pleasing to the ears. It also helps students with their career ambitions. Valdez hopes to play for a professional orchestra, and will go on to graduate school to further his studies.

“Having bigger spaces helps us play in bigger ensembles,” said Valdez, who earned a scholarship to attend the UO. “In the professional world, you’re going to have to do that. These facilities bring the school of music to a higher level, and make it a real-world experience.”

RAISING EXPECTATIONS

Two large computer screens sit on David Mason’s desk. He needs them both to schedule and keep track of everything that takes place in the practice rooms, classrooms, teaching suites, and performance halls.



PHOTO BY AARON MONTOYA

“These facilities bring the school of music to a higher level, and make it a real-world experience.”

*Juan Valdez
Junior, Music Performance*

MarAbel B. Frohnmayer Music Building

- Renovation and expansion completed in 2009
- \$19.3 million funding: \$10.3 million in private gifts, \$7.6 million in state bonds, \$1.4 million from university sources
- 50 percent increase in square footage
- Increased practice rooms from 30 to 50
- Aasen-Hull Hall, a multipurpose rehearsal space with excellent acoustics, features a 40-foot-high ceiling and a modern recording studio. Sound dampening curtains may be adjusted to tune the room and mimic different venues.
- An academic wing, named for donor Leona DeArmond, BA '51, includes teaching studios, a music education lab that doubles as a 65-seat classroom and high-tech recital space, two 35-seat classrooms, and a suite of practice rooms.
- A performance wing, named for donor Thelma Schnitzer, BMus '40, features a symphony-sized rehearsal hall along with dedicated teaching, practice, and rehearsal studios for the jazz and percussion programs.



PHOTO BY AARON MONTROYA

“I spend way more time in that music building than I spend in my house.”

Nora Willauer
Senior, Music Performance

It not only received rave reviews, it showed what type of performances and music the new facilities enabled. The production would not have been possible, says Mason, without the rehearsal spaces added during the renovation and expansion. The new building also inspired others to dream big.

“The conversation to write an opera would never have happened before,” Mason said. “Now there are larger works, more significant art, we are able to do. We’re just now seeing what can happen.”

PLAYING IN TIME

Cellist Nora Willauer enjoys spending time in the Frohnmayer Music Building. A lot of time.

On top of her classes, the senior music performance major practices at least 30 hours a week, sometimes more than 40.

“I spend way more time in that music building than I spend in my house,” she said.

Despite all those hours, she says there’s always practice space available.

She started playing violin at age three, then switched to the cello in high school. But a yearlong break from music made her realize how much she loved it. She first enrolled as a psychology major, and dabbled with the cello on the side. But she was drawn back to the instrument in full, due in part to encouragement from Steven Pologe, chair of the school’s strings department.

The school has everything she could want, and offers more than her friends at major conservatories have access to. She can let herself into the building, day or night, nearly all of her classes are contained in the

It’s a delicate dance for Mason, the school’s director of facilities services, but it’s more than just scheduling space to him. It’s about making sure the students have the best opportunity to succeed, and to help them maximize their experience at the university. He earned his master’s degree at the UO in the 1990s, so he knows how far the school has come.

“The main difference between prior to 2009 and after 2009 is that we have some massive possibilities,” Mason said, “and we don’t know what some of them are.”

That possibility was first probed by Ethan Gans-Morse, who audaciously set out to compose an opera for his master’s thesis. He went on to write *The Canticle of the Black Madonna*, which premiered in Beall Concert Hall in 2013.

building, and the school's computer lab also comes in handy.

Add it all together and the Frohnmayer Music Building enables success, Willauer said.

"If you are excited about learning and excited about working hard, it's super easy to do here," she said. "Way more so than anywhere else."

TEACHING TOOLS

Toby Koenigsberg can speak to the challenges music undergrads once faced. He earned his bachelor's degree here in jazz studies and classical piano performance in 1998, returned as an adjunct professor in 2000, and then again in 2003 as an associate professor of jazz piano.

He recalls when students lined hallways outside practice areas, ready to pounce the instant one became available.

"They used to close the school at 1:00 in the morning when I was a student," he said. "A lot of people would come around then because we were sure we could find a place. I'd be here from 11:00 to 1:00 every night. We didn't have a choice a lot of times."

That's no longer the case.

He then points out the two pianos and a keyboard in his office. His predecessor's office—which Koenigsberg moved into prior to the expansion—could only hold one. "And it was a tight squeeze," he said.

Now he can play a song alongside one of his students in his office or give one-on-one instruction without worrying about cutting into other students' practice time.

"It's so much better in every way," said Koenigsberg.

The school's high-profile jazz program also benefited greatly from the gifts, receiving a recording studio with sound booths.

"It's really been a sea change because we have the facilities we always needed but never had," he said.



PHOTOS BY ERIN ZYSETT

"It's really been a sea change because we have the facilities we always needed but never had."

*Toby Koenigsberg
Associate Professor
of Jazz Piano*

"We finally had the space that was adequate to hold the group and to hold the music."

*Bob Ponto
Associate Professor
of Conducting
Assistant Dean
for Admissions and
Recruitment*

New programs such as popular music and audio engineering grew out of the expansion, Koenigsberg added. The popular music and music technology concentrations are now two of the school's most sought-after programs.

"I feel like we're catching up a little bit with what the facilities provide us with in terms of innovation in the curriculum," he said, "and it's exciting to have opportunities there."

—Jim Murez

Live, Learn, Play

PHOTO BY BEN CANALES

One of the few remaining university-operated observatories in the US, the UO's Pine Mountain Observatory is located 34 miles southeast of Bend, at an elevation of 6,300 feet.

*Inside Oregon:
Live, Learn, Play
offers field trips for
grownups, giving UO
donors opportunities
to have fun, meet
students and faculty
members, and
learn more about
their university*

Remember back in grade school how incredibly exciting it was when the teacher announced that your class would be taking a field trip? It not only meant leaving the routine of the classroom for a day, but it was also a great opportunity to experience something new and have fun at the same time. Aiming to reignite that childlike experience—and give donors a chance to learn what our students and faculty members are up to—the UO offers an array of field trips throughout the year. Some are on campus, but others are farther afield. Imagine traversing a secret garden of lush green sculpted lawns, meandering meadows, and walking paths brimming with whimsical blue hydrangeas; pausing to view breathtaking waterfalls and wetlands and river bays along the way at the UO College of Design's tranquil, 75-acre sanctuary known as the Shire, tucked away in the heart of the picturesque Columbia River Gorge.

Picture being perched 6,300 feet up on the top of a mountain on a cool summer night in central Oregon, peering into a clear

“It really is a field trip for adults, and they are just fun. You meet other people at these things and you can have a little reunion with them from time to time.”

—Andrea
Arlington, BS '67,
MS '72



night sky at Saturn and Jupiter, and at deep-sky objects such as double stars, stellar nurseries, star clusters, and even a galaxy 23 million light years away through an ultrapowerful telescope. The UO's Pine Mountain Observatory in central Oregon is one of the few university-operated observatories left in the US. Or envision an adventure closer to the UO campus—visiting a genetics laboratory, experiencing art, or checking out the university's newest buildings (or oldest archives).

Since 2014, members of the UO's President's Society and the Arnold Bennett Hall Legacy Society (ABHLS) have been attending fun and educational events through the UO's Live, Learn, Play program. The events are open to donors who give \$2,500 or more during the fiscal year, as well as to ABHLS members, who have made planned gifts.

“It's a great opportunity for them to actually see the difference that their gifts are making,” said Liz Jacoby, an assistant director of stewardship at the UO. “They get to tour labs and facilities, talk to students and staff and faculty members, and get a behind-the-scenes look at all the cool things that are happening here at the UO.”

With all the recent construction on campus, touring new facilities has become an especially popular activity. For instance, donors visited the Hatfield-Dowlin athletics complex, and then toured the Lewis Integrated Science Complex. “We were able to show them that ‘here's this amazing athletics building that's been in *Sports Illustrated*, and there is an equally amazing facility for integrated science research.”

In addition to touring science labs and athletics facilities, Jacoby recalls one event that paired the Jordan Schnitzer Museum of Art with Knight Library's Special Collections and University Archives to showcase the traveling Shakespeare's First Folio exhibit, in which attendees were able to view the exhibit at the museum and then head over to Knight Library for a more tactile experience.

Andrea Arlington, BS '67, MS '72, a retired librarian from the Lebanon Community School District, says she especially enjoyed touring Knight Library's archives and the Special Collections section—in 2016 she established an endowment to support a student intern in Special Collections in memory of her husband, David, MA '69, PhD '73.

The Live, Learn, Play events—three to four per year in Eugene, one or two in Portland, and another at a location elsewhere in

Join a Field Trip

Inside Oregon: Live, Learn, Play is open to members of the Arnold Bennett Hall Legacy Society (donors who have made planned gifts of any amount) as well as members of the UO's President's Society for donors who give \$2,500 or more during the fiscal year.

To learn more about the Arnold Bennett Hall Legacy Society, contact the Office of Gift Planning: 800-289-2354 or email giftplan@uoregon.edu.

For more about the President's Society, contact Kate Feeney in Annual Philanthropy: 541-346-2351 or email katef@uoregon.edu.

Already a member and ready for an adventure? Contact Liz Jacoby: 541-346-8779, ejacoby@uoregon.edu.



Located directly across from Multnomah Falls, the Shire, part of the John Yeon Center, occupies a 75-acre waterfront site in the heart of the Columbia River Gorge.

the state—typically draw between 25 and 40 attendees, and Arlington, who is also an active UO Alumni Association life member and ardent Duck, is part of a core group of people that attends nearly every one. “I’ve probably gone to the majority of them,” she says. “It really is a field trip for adults, and they are just fun. You meet other people at these things and you can have a little reunion with them from time to time.”

Also an active member in both UO museums as well as someone who has season tickets to “nearly every Duck event that exists,” Arlington says the Live, Learn, Play program is great for connecting with friends—for instance, while exploring architect John Yeon’s Shire in Portland.

“The event at the Shire was stunning,” she said. “They allowed me to bring along my colleague, as well as a teaching friend, who also graduated from the school of architecture at the UO, and the three of us drove up there and we were just delighted to see it in person.” At another event, Arlington toured the Pine Mountain Observatory. “I didn’t even know we had an observatory outside of Bend,” she says. Unfortunately, that year the weather didn’t cooperate. “We got ‘thunderstormed out,’ but we got the introductory outside tour in the rain and they gave us Mars bars and Starburst candy!” she says. “We

met the fellow who was in charge of the observatory, and he is a real kick in the pants. You could tell there were people in the audience who were intrigued; they wanted to know more.”

Because each event offers a broad overview of what’s happening on campus, Arlington says they help donors and alumni stay connected to the university. “I would just say that if at all possible, try to attend an event, because they’re just really educational and encouraging to alumni to help the university. And you get a connection to the university behind the scenes that you wouldn’t have an opportunity normally to have,” she says.

Educating donors and helping them feel more connected to the UO is only part of the program’s intent. It also allows participants to engage in conversation with students, who have an opportunity to showcase their work and share their energy, excitement, and passion for learning. “The students are endlessly inspiring,” Jacoby says. “They are at another level; they are so talented. It’s exciting.” For example, Charity Woodrum—a physics superstar chosen for a prestigious summer internship at NASA, where she joined the hunt for gravitational waves—has been volunteering at Pine Mountain Observatory as a tour guide



“It’s a great opportunity for donors to actually see the difference that their gifts are making.”

—Liz Jacoby,
Assistant Director
of Stewardship

for the past four years. On the VIP tour that Woodrum leads, Live, Learn, Play participants get a chance to view Saturn and Jupiter as well as other points of interest through the observatories’ powerful Cassegrain reflecting telescopes.

“Many of the participants gasped when they saw Saturn through the telescope; ‘I can see the rings!’ was a common exclamatory response,” Woodrum says. “I love sharing the science I am so passionate about, and it makes it even more fun when there is a group that is as engaged as the donors were. They were very interested in what they were seeing, in the observatory, and in my research as an undergraduate student at the UO. Many of the participants commented that the experience left them in awe and gave them a deeper understanding of what we call the ‘cosmic perspective.’”

In the three years since the program began, Jacoby has received a lot of great feedback. “The thing that I hear the most is that people leave feeling inspired about the program and amazed by what our faculty and students are doing,” she says. “They feel good about the university and donating to the school, and being part of the University of Oregon family.”

—Sharleen Nelson, BS ’06





“I know at times I’m going to fail and I know it will be hard, but it’s so much better than not trying and wondering when I’m 80 why I didn’t apply for the astronaut corps.”

FLY HER TO THE MOON

Scholarship recipient Manju Bangalore—physics major, NASA intern, pilot, Miss Oregon contender, and founder of her own nonprofit—is well on her way to becoming an astronaut

Manju Bangalore's favorite memory stays with her in sharp, crisp detail.

"I was really young, like five or six, and my dad would pick me up from school, and we would take the back roads home," she says as she laughs. "And as we got closer to the railroad tracks, he'd say in a pilot's voice, '*Air traffic control, this is C.H. seven forty-one*'—that was his license plate—'*Co-pilot and I are ready for takeoff. Are we cleared?*' Then he would speed up right at the tracks and for a moment, just a millisecond, we'd be up in the air, and that stomach feeling made me so excited. I was flying. I was in the air."

Although her father was just playing a game, those moments in the air—the ability to fly—stayed with Bangalore and has basically influenced every decision she's made since.

She is determined to accomplish the height of flight: the physics major wants to become an astronaut before she's 30. Presidential and Summit scholarships—and an internship at NASA—are helping her reach her lofty goal.

"These UO scholarships empowered me," she says, "in both accessing higher education and allowing me to go beyond the classroom to conduct scientific research."

GOING TO MARS

Bangalore learned about Kalpana Chawla, the first Indian American astronaut, when she was little, and saw a role model not only with the same ethnic descent but one that shared her desire to circle the Earth in orbit. When she learned that Chawla was one of seven crew members killed in the space shuttle Challenger disaster in 2003, she thought for a moment about becoming a pediatrician, but the pull to fly was too strong.



PHOTO BY CHARLIE LITCHFIELD

Now 20, the UO senior recently returned from a NASA internship in which she was working on the Orion spacecraft, which is designated to return astronauts to the moon and, eventually, to Mars.

"I was working on the cockpit display for Orion. Any time the vehicle wants to change its direction or speed to stay on course, it needs to burn its engines," she explains. "I was creating a test to make sure the burn and targeting displays that tell the rockets when to fire were working and what changes need to be made."

But Bangalore isn't fazed by the fact that she is working on a spacecraft that will eventually reach another planet. Maybe it's because she's planned on this for so long, hitting each mark that enabled her to spend this last summer working in Houston at NASA. She's taking flying lessons, and travels to Corvallis to pilot a small plane once a week to earn the hours she needs to get a license. She meets with her advisor and teacher, Scott Fisher, multiple times a week to stay connected. She doesn't rely on her phone to keep her schedule; she carries a thick notebook that lists what she needs to do each day in aching, elaborate detail; one day might have up to 15 entries.

Or maybe it's because this isn't her first NASA internship—which is not only remarkable, it's extremely rare for a student to return for another installation.

LEAVING THE EARTH

Bangalore's first NASA internship in 2015 at Marshall Space Flight Center in Huntsville, Alabama, "focused on the economics of in-space propulsion," she says as simply as if she's describing a summer job serving frozen yogurt. "All rockets require chemical propulsion to leave the Earth—they're the only systems strong



“These UO scholarships empowered me, in both accessing higher education and allowing me to go beyond the classroom to conduct scientific research.”

enough to escape Earth’s gravity—but once you get into space, you have the ability to choose other options, like electric. My project looked at the economic benefits and disadvantages of choosing electric propulsion over chemical.”

Or maybe she’s not fazed because before she worked on spaceships at NASA, she spent another summer developing technology and science policy at the White House.

“I know I had the opportunity to work at really cool places,” she acknowledges. “But I applied for—two or three dozen is a conservative estimate of how many internships I applied for.”

That fact—that she secured several amazing internships but didn’t get others—is important to Bangalore. Achievement, clearly, is something that is worked for, not something delivered.

“I’ve gotten a lot of rejection letters, so you can succeed and fail at the same time, right?” she questions. “I can get an acceptance at one place and also fail at 40 other things, too. I am happy to show you a picture of all of them!”

“I’M PROUD TO SAY I FAILED THE ENTIRE YEAR”

It’s also vital to Bangalore, a first-generation Indian American, to recognize that as a woman of color, especially one in the sciences, she is not expected to attain such coveted positions.

“Women in the sciences or people of color in the sciences are just marginalized communities who are told that failure is really prevalent for them,” she says. “When people have really low expectations of a woman or a person of color in the sciences, it’s easy to surprise them but it makes it even more worth it to surprise them.”

In front of the spectacular telescope in his office in Willamette Hall, Scott Fisher

says four words that describe Bangalore: Extremely energetic. Personable. Organized.

“She’s one of our most dedicated students in the physics major,” Fisher says. “She’s very intellectually capable; a very, very smart woman. She’s trying to go and grab physics by the shoulders, shake it, and get everything she can out of it.”

It was Fisher who guided her through the application process for the many, many internships she applied for, and Bangalore credits him with encouraging her to try for what seemed like the impossible.

“I spent my sophomore year on campus in a lab, and I’m proud to say I failed the entire year,” Bangalore admits. “I felt terrible because you’re supposed to make some progress in that time, but that is the very nature of science; you fail constantly, and you know as much as it sucks, you just have to be able to get back up. It’s a lot easier to get back up when you have people like Dr. Fisher helping you. He’s also a big reason why I chose science literacy as my platform in the Miss USA pageant.”

Bangalore saw the local pageant as an opportunity to spread the word about science to children and students in a way that they could understand the magic of physics like she did when her father started flying over railroad tracks in their family car. To make it simple but exciting. To explain science in ways that makes it accessible and reachable. She won the county pageant, and on October 7 she traveled to Portland to compete for the Miss Oregon title. She didn’t capture the crown, but she did come away with the knowledge that, emotionally and physically, she could push herself to far lengths for something she really wanted.



“She’s trying to go and grab physics by the shoulders, shake it, and get everything she can out of it.”

Scott Fisher, Lecturer and Outreach Coordinator, Department of Physics

GIVING BACK

It was Manju’s mother, Geetha, who took Manju back to India nearly every year to spend her summers working at the same orphanage in Bengaluru. Over time, Manju grew up with the kids she spent her summers with and got to know them. They became playmates, friends.

“Many of those children became doctors and lawyers,” Geetha adds.

It was that foundation in giving back, the duty of serving the community, that inspired Bangalore to establish Rosie, a nonprofit organization in 2015 that supplies more than a dozen outlets with menstrual supplies and educational services, including homeless and family shelters, Planned Parenthood of Southwestern Oregon, Womenspace, and Oregon State University’s Human Services Resource Center Food Pantry. Last year, Rosie began servicing Balavikasita Orphanage in India, providing the girls there with menstrual supplies, education, nutritional supplements, and medical access.

HIGHER GROUND

When the water started seeping under the door, Bangalore was worried, but not much. Her apartment was in an elevated portion of Houston while Hurricane Harvey had been pummeling the town already for a day. She still felt safe, even with the inch of water that was spreading itself around her home.

Within minutes, the inch became two, became three. Bangalore called 911, but no one came; after a while, with the water still invading, she called again.

When the water reached her knees, she grabbed her car keys to leave and head to the higher ground of a friend’s house that was close by—a three-minute drive. Once outside, she realized that the car she had driven from Eugene was inoperable; water was far above the doors. It took less than a second for her to decide to walk. Her shoes were snatched by the current instantly, and for two miles, she moved barefoot in water up to her waist until she was spotted by a police car that took her to safety to her friend’s house, who happens to be Miss Mississippi. “She let me have her car so I could get back and forth to NASA,” Bangalore says as she starts the engine. “Can you believe how nice that is?”

Her car was totaled, but she got a replacement before the fall term at the UO began. In January, she’ll be heading back to Houston with that new car for her third internship at NASA, which Bangalore’s idol, Suni Williams, recommended her for.

It’s another step closer, another mark hit.

“People think it’s ridiculous to hope for it. They tell me that eight astronauts are chosen every two years out of 15,000 applicants—but they were chosen,” Bangalore says steadfastly. “The number is not zero. The probability is low, but if there’s a chance I can do something, I will. I know at times I’m going to fail, and I know it will be hard, but it’s so much better than not trying and wondering when I’m 80 why I didn’t apply for the astronaut corps.”

—By Laurie Notaro

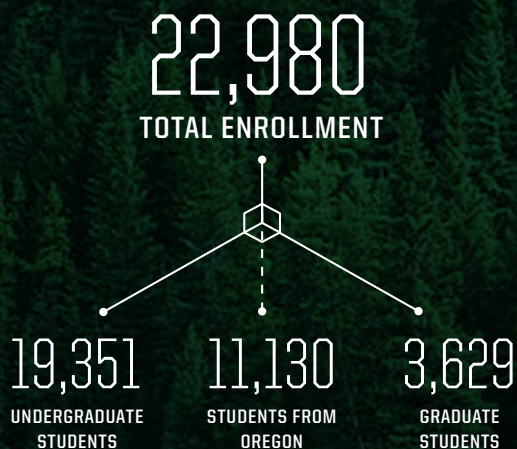


Enrollment Dashboard: Making the Grade

Data from Student Services and Enrollment Management demonstrates how the UO, with help from donors, is working to remove obstacles to success, increase diversity, and reduce student debt

STUDENT BODY

Offering an exceptional student experience



CLASS SIZE

STUDENT-TO-TEACHER RATIO

17:1



MEDIAN CLASS SIZE

20



TUITION AND COST

UO EXPENSES 2017-18

	RESIDENT	NONRESIDENT
UNDERGRADUATE TUITION AND FEES	\$11,571	\$34,611
ON-CAMPUS RESIDENCE HALLS (INCLUDING ROOM AND BOARD)	\$11,450	\$11,450
UO EXPENSES TOTAL	\$23,021	\$46,061

ROOM AND BOARD FIGURE IS BASED OFF A STANDARD DOUBLE ROOM

OTHER ESTIMATED EXPENSES 2017-18

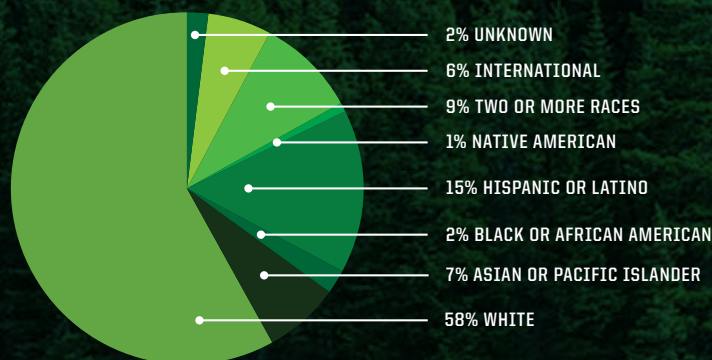
	RESIDENT	NONRESIDENT
BOOKS AND SUPPLIES	\$1,125	\$1,125
PERSONAL EXPENSES	\$1,995	\$1,995
TRAVEL EXPENSES	\$361	\$1,261
OTHER ESTIMATED EXPENSES TOTAL	\$3,481	\$4,381

TUITION AND FEES ARE BASED ON TYPICAL UNDERGRADUATE ENROLLMENT OF 15 CREDITS FOR EACH OF THREE TERMS, TOTALING 45 CREDITS PER YEAR.

EQUITY AND INCLUSION

A university where people from different cultures and experiences learn together

This fall we welcomed—for the eighth year in a row—our most diverse freshman class:



ACCESS AND AFFORDABILITY

Helping students diminish debt

University of Oregon, 2016–17 graduates

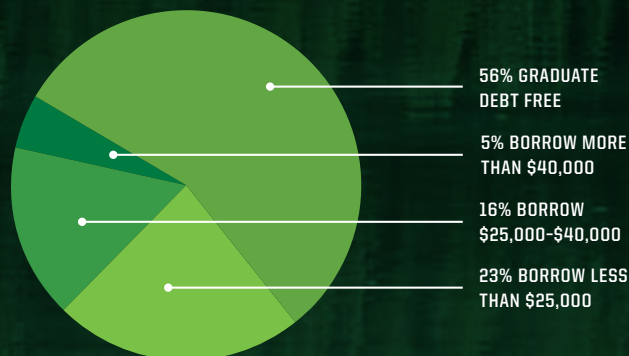
44 percent of graduates had debt
\$26,164 average per borrower (only among students who have debt)
\$11,395 average debt (including all students)

All Public and Nonprofit Colleges, 2014–15 graduates

68 percent of graduates had debt
\$30,100 average per borrower

Dispelling Myths about Debt

- Less than half of the class of 2016 graduated with any debt at all
- 95 percent had less than \$40,000 in debt
- Debt of more than \$75,000 represents a small percentage of outliers

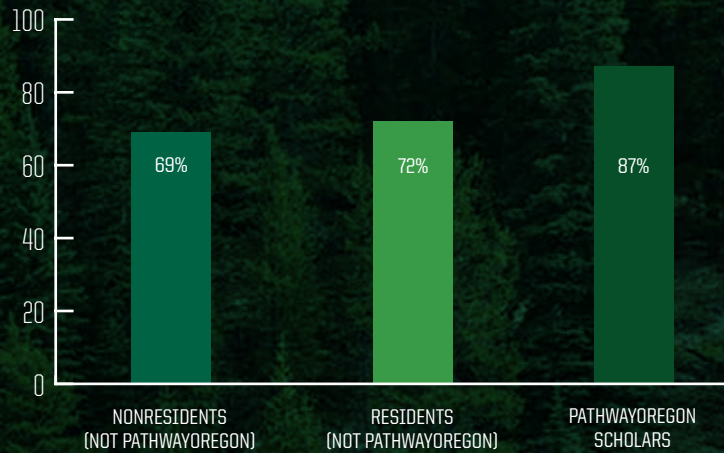


STAYING IN SCHOOL

Financial, academic, and social support help increase retention rates for lower-income Oregonians

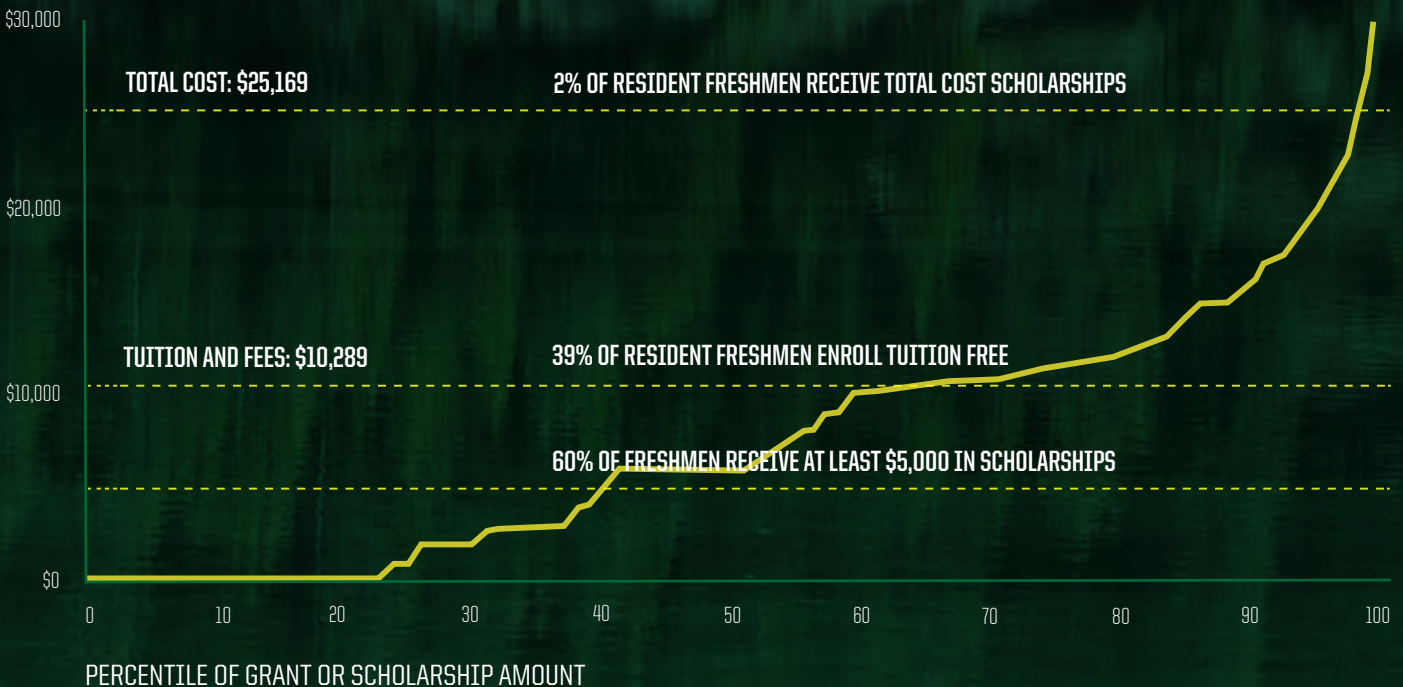
The PathwayOregon scholarship program for Oregonians makes college affordable and provides support that improves retention rates. Also, the four-year graduation rates of PathwayOregon students greatly exceed historical rates for lower-income Oregonians and have closed the gap significantly with their higher-income peers.

RETENTION RATES FOR STUDENTS WITH FAMILIES MAKING LESS THAN \$50,000 PER YEAR



SCHOLARSHIPS FOR RESIDENT FRESHMEN, 2015-16

Thanks to donors and other sources of support, 77 percent of freshmen from Oregon receive some form of grant or scholarship.



Debt at graduation for students who started as first-time freshmen. Includes international students. Source: University of Oregon International Research, SSEM Research.

10 ways to give



1 Launch a Career

Some things you must learn by doing. At the School of Journalism and Communication, that's especially true. Nearly 80 percent of our undergraduates participate in hands-on learning opportunities, including student-run agencies and publications, faculty-led trips and projects, media production, and more. Your gift supports experiential learning, helping students gain practical experience, build portfolio content, and move from classrooms to careers.

Contact Lauren Wilcox, 541-346-3678, lmwilcox@uoregon.edu



Andie Tenosa, class of 2017, was an intern in Ghana, Africa in 2016. The Media in Ghana program offers students in the School of Journalism and Communication life-transforming internship opportunities with media outlets and nonprofit organizations in Africa.

2 Partner with the President

The President's Success Fund gives Michael H. Schill resources to allocate at his discretion in ways that will provide the greatest benefit. This flexibility enables the president to solve problems quickly and make the most of new opportunities. For example, it may be used to support new initiatives, purchase equipment, or recruit top researchers.

Contact John Manotti, 541-346-1677 or 541-543-9908 (mobile), jmanotti@uoregon.edu

3 Help Oregonians Succeed

PathwayOregon offers crucial funding so qualified Oregonians can attend the university—and the support necessary to help them succeed once they're here. Your gift to this innovative scholarship program helps lower-income Oregonians, many of them first-generation college students, realize their dreams of a college degree and success after graduation.

Contact Jen Parker, 541-346-8018, jeparker@uoregon.edu

4 Give it Some Thought

Studying great literature and media, while considering how they reflect on pressing social and environmental issues, challenges students to develop analytical skills, aesthetic sensitivity, and well-supported arguments. In a fast-paced world of information and social media, writing well and taking the time for quiet reflection offer rare, but important, learning opportunities. Your gift to the English department helps students develop a foundation for moral judgment and citizenship, as well as professional success.

Contact the College of Arts and Sciences, 541-346-3950

5 Open a World of Possibilities

Studying abroad transforms lives and prepares students for career success. Half of our incoming freshman students want to study in other countries, but only 25 percent do. The number-one obstacle is cost. Your gift to the Study Abroad Endowed Scholarship Fund helps ensure that every UO student, regardless of family income, status as a first-generation college student, or racial or ethnic background, will have the opportunity to compete and succeed in an increasingly globalized job market.

Contact John Manotti, 541-346-1677 or 541-543-9908 (mobile), jmanotti@uoregon.edu

6 Turn Data into Action

For nearly every discipline at the UO, the need to crunch data—colossal amounts, faster, in more meaningful ways—is growing quickly. So is the need for students who know how to work with big data. Your gift to the Presidential Initiative in Data Science helps the university hire new faculty members and create new programs. These will train students to help solve big challenges and create solutions, for the good of all.

Contact Matt Hutter, 541-346-2837, matth@uoregon.edu

7 Drive Innovation

Today's libraries offer more than books (though we still have those, too). For example, the Knight Library's new Academic and Design Innovation Lab will create a high-tech hub for research and innovation on the UO campus. Your gift helps fund technology that will foster digital scholarship and offer services and consulting. This new collaborative space will accelerate research across the entire university.

Contact Keri Aronson, 541-346-1890, keria@uoregon.edu

8 Lift Ducks Higher

The Women in Flight program is raising awareness and financial support to achieve excellence across all UO women's athletic programs. Your gift helps female student-athletes succeed on the field, in the classroom, and professionally after graduation. Join us in creating champions—in athletics and in life.

Contact Callie Wagner, 541-346-5371, carolynw@uoregon.edu, uowomeninflight.com



9 Partner for the Planet

Through partnerships with industry, the UO's College of Design is working to reduce energy consumption and make the places we work and live healthier—including how they are designed, built, and operated. Your gift supports these interdisciplinary teaching and research efforts, which include architecture, construction, biology, chemistry, engineering, and urban design.

Contact Patrick McCusker, 541-346-0607, mccusker@uoregon.edu

Microinteraction by Morgan Maiolie

For its Health and Energy Research Consortium, the UO's College of Design (formerly the School of Architecture and Allied Arts) commissioned the artist to illustrate the bacteria, fungi, and viruses that inhabit all buildings. Researchers study these microbiomes as part of their efforts to make indoor spaces healthier.



10 Promote Cultural Understanding

For 35 years, Ducks from around the world have shared their cultures with local schools, community organizations, and their fellow UO students. These cultural ambassadors discuss life experiences and break down stereotypes. They give presentations, perform music, and teach crafts and cooking from home. Your gift for the International Cultural Service Program promotes intercultural understanding in our community and creates engaging learning opportunities—for the students as well as their audiences.

Contact John Manotti, 541-346-1677 or 541-543-9908 (mobile), jmanotti@uoregon.edu



“Thank you very much for this wonderful opportunity. Without the scholarship I wouldn’t be able to confidently pursue my career path.”

Kelly Vuong

Enrolled fall 2017

PathwayOregon and Diversity Scholar

First-generation college student

Hometown: Eugene

Major: Human physiology

Career plans: Orthodontist

Favorite Class: Introduction to Health Professions

Advice for new college students: “Hide your phone and don’t procrastinate.”

Campus involvement: Asian-Pacific American Student Union, Vietnamese Student Association, Kultura Pilipinas

What a college degree means: “A successful career, and making my friends and family proud.”