DISCOVER A SCHOOL
WITHOUT WALLS
The digital revolution is as significant as the agricultural and industrial revolutions that came before, and it will transform how we work and live just as dramatically. Data is the fuel that will drive this transformation—and data science is the practice by which we can enact it in a responsible way.

Although data science is often called a new field, it can really only be considered so when we look at it in aggregate, for the components—statistics, computer science, and mathematics—have long existed. When they are applied together, to every imaginable discipline, we get something fresh and profound. Profound enough for the University of Virginia to create a new school, only the 12th in its 200-year history.

Our field may be nascent, but its potential for producing nefarious outcomes has already been well documented. We are committed to teaching and practicing responsible data science, with the common good in mind. As the first school of data science in the country, we have an obligation to be a leader in the field and in education. That leadership is built upon ethical partnership with all stakeholders, from schools and departments at UVA, to other universities worldwide, to the private sector, to government, to nonprofits, and to the general public. We strive to be a school without walls: an institution with collaboration at our core.

Data science is vital to understanding our world, and it is a discipline that belongs to all of us. As a school, we believe in that shared sense of responsibility. We are teaching the data scientists of the future to believe in it, too. When I look into their eyes upon graduation, I am filled with joy and hope for what they will accomplish.

Phil Bourne
Founding and Stephenson Dean, School of Data Science
There is an ever-increasing amount of data in the world — 90% of it has been created in the last two years*. At this moment in time, we have an unprecedented opportunity to quantify our world and transform it for the better.

Founded in 2019 through the largest gift in the history of the University of Virginia, the School of Data Science positions the university and our community to play a leading role in the global digital future.


**Discover the 1st school of data science in the nation**

**Our Mission**

**CATALYZE** discovery through leading edge, interdisciplinary research.

**EDUCATE** a diverse workforce to be responsible practitioners and leaders in an increasingly data-driven society.

**SERVE** our community, our nation, and our world by using data science to advance the common good.
Two Year Timeline

**SEP 2019**
**WE'RE OFFICIAL!** The State Council of Higher Education for Virginia approves formation of the School of Data Science.

**MAY 2020**
**DATA SCIENCE MINOR:** UVA Faculty Senate approves undergraduate minor in data science.

**JUN. 2020**
**NEED-BASED AID:** SDS introduces need-based financial aid for M.S. in Data Science students.
**PROFESSIONAL PROGRAM:** SDS launches Data Science for Business Strategy Program with Darden School of Business and McIntire School of Commerce.

**OCT. 2020**
**COLLABORATORY:** SDS and School of Education launch the Collaboratory for the Advancement of Education and Data Science.

**NOV. 2020**
**GIRLS WHO CODE:** SDS sponsors first Hackathon for newly initiated UVA chapter of Girls Who Code.

**DEC. 2020**
**DATA ACTIVIST IN RESIDENCE:** SDS hires first Data Activist in Residence.
**FIRST GRADUATING CLASS:** SDS graduates its first cohort of Online M.S. in Data Science students.

**APR. 2021**
**$2 MILLION GIFT ANNOUNCED:** Capital One’s Center for Machine Learning gives $2 million to name the central hub of SDS’s future building at the corner of Emmet and Ivy.

**JUL. 2021**
**DIVERSITY, EQUITY, AND INCLUSION:** SDS hires first Associate Dean of DEI.
**FINANCIALLY SOUND:** Total endowment valued at over $170M.

**SEP 2021**
**WE'RE GROWING:** Team passes 50 FTE’s with the addition of 10 new faculty.
**HBCU SUMMER RESEARCH:** SDS holds first Data Science for Health Equity HBCU summer research program, sponsored by Deloitte AI Institute for Government and Oracle for Research.
**WOMEN IN DATA SCIENCE:** SDS matriculates first M.S. in Data Science cohort with a female majority (52%).

**DEC. 2020**
**FIRST GRADUATING CLASS:** SDS graduates its first cohort of Online M.S. in Data Science students.

**MAR. 2021**
**PH.D. APPROVED BY BOV:** UVA Board of Visitors approves resolution for a Ph.D. in Data Science.

**MAY 2021**
**350+ ALUMNI:** SDS graduates its 7th cohort of M.S. in Data Science students, surpassing 300 alumni.

**JUN. 2021**
**HBCU SUMMER RESEARCH:** SDS holds first Data Science for Health Equity HBCU summer research program, sponsored by Deloitte AI Institute for Government and Oracle for Research.
**WOMEN IN DATA SCIENCE:** SDS matriculates first M.S. in Data Science cohort with a female majority (52%).
How do you construct a school without walls? Our new space will reflect our central values of innovation, openness, and collaboration.

From detecting cyber threats to helping economically disadvantaged communities, our researchers work to transform society.

Our interdisciplinary degrees and programs prepare the next generation of data scientists to tackle real-world problems.

We seek to center transparency, ethics, and diverse voices in our pursuit of inclusive excellence.

Our collaborations with community, industry, and government leaders drive the field of data science forward.
New School, New Space
We aim to be a school without walls, committed to innovation and collaboration, and our new building will reflect this philosophy. Open, collaborative spaces will transcend traditional boundaries and spark interdisciplinary connections between learners, researchers and innovators. The four-story facility will include adaptive classrooms, faculty offices, collaborative meeting spaces, and research areas. Public spaces will be open to the University and broader communities alike.

Transcending Boundaries

Partners

A transformative gift by the Charlottesville-based Quantitative Foundation has funded the building. In addition, Capital One’s Center for Machine Learning recognized the current and future work of the School of Data Science with a $2 million gift naming the Capital One Hub.
A Nexus of Discovery

Our new space will stand at a vital intersection for the University of Virginia, connecting Central Grounds with the athletics complex and fields, the Law School, and the Darden School of Business. A vibrant hub built to foster collaboration, the building will bring people together from across the University, the city of Charlottesville, and beyond.

By the Numbers

- STORIES: 4
- SQUARE FEET: 61,122
- COLLABORATIVE WORK SPACES: 20
- CLASSROOMS FOR UP TO 45 PEOPLE: 2
- RECORDING STUDIOS: 2
- TOTAL CAPACITY: 1,873
- SUPPORT FROM CAPITAL ONE’S CENTER FOR MACHINE LEARNING: $2M
- CLASSROOMS FOR UP TO 75 PEOPLE: 2

The School of Data Science sits at the gateway of the new Discovery Nexus.
Responsible

With easy pedestrian and biking access, a stormwater retention pond, smart building technology, and other features, our new space will meet key sustainability goals.
Transparent

An open and airy layout will reflect the University of Virginia’s original architectural vision: a space that fosters learning by creating ample opportunities for faculty and students to interact.
Common areas such as the atrium, lobby, Corporate Commons, hardware lab, and fourth-floor terrace and reading room will serve as inviting hubs for the exchange of ideas and innovation.
Open

Large public spaces will create opportunities for engagement with the greater UVA, Charlottesville, and data science communities.
The School of Data Science pursues high-impact research to further discovery, share knowledge and transform society.

Through their research, our faculty and students are building a better world in a variety of ways.

**DEMOCRACY**
Investigating how terrorist groups recruit women through propaganda and examining risk for extremist violence.

**EDUCATION**
Helping economically disadvantaged, underrepresented populations pursue pathways that have a higher probability of leading them to success.

**HEALTH & MEDICINE**
Securing high-performance computing equipment and personnel to allow collaboration across the university on brain science research concerning autism and more.

**CYBERSECURITY**
Detecting broad-spectrum cyber threats almost immediately after they are launched—research made possible through a grant from the Department of Defense.

**ENVIRONMENT**
Using NASA data collected aboard the International Space Station to examine and develop responses to climate change in the Shenandoah National Forest and beyond.

**BUSINESS**
Discovering what makes a job interview successful for both the candidate and the recruiter and learning how to mitigate bias in the recruiting process.
The Future of Discovery

We plan to expand and deepen our research through initiatives designed to foster innovation and collaboration.

Collaboratories

These cross-disciplinary research groups will use the power of data science to advance every field, creating a collaborative ecosystem of people, ideas, and infrastructure. Our inaugural Collaboratory is a partnership with the School of Education and Human Development and focuses on economic mobility, replication studies, and education technology.

Centers

These concentrated hubs will allow students and faculty to explore some of the most pressing challenges in our data-driven society through a clearly defined lens. Our inaugural Center is the Center for Data Ethics and Justice, which investigates a range of issues, including bias, inequality, and artificial intelligence.
Code the team used to identify the degree of infrastructure damage through color, with blue indicating none, teal indicating minor damage, green indicating major damage, and yellow marking a structure as destroyed.

Strengthening Disaster Response

A team of researchers and practitioners uses space technology to help children in crisis.
“The students wrote up very clear documentation—a step-by-step guide on how to use the code—with the idea that they can then package it as a software and give it to Save the Children.”

— Bill Basener, Professor of Data Science

**Background**
When disaster strikes—whether it’s an earthquake or an armed conflict—Save the Children needs to move quickly. The humanitarian organization aims to provide families who are migrating in the wake of a crisis with food, water, shelter, and other vital resources. A team of student and faculty researchers from the School of Data Science wanted to help.

**Methods**
“One of the main ways to predict if there’s going to be a migration after a crisis is if the infrastructure in a place has been damaged,” says Assistant Professor of Data Science Jon Kropko. “So in a city where a lot of the houses have been destroyed, and a lot of the roads and bridges, there’s a much higher probability of a migration coming from that spot. Knowing that probability can help Save the Children spring into action.” The team wanted to see if they could make those predictions by running new data with an existing code that was created to identify damaged infrastructure using satellite imagery as part of IBM’s xView2 AI Challenge.

**Results**
Although the code was complicated and “data greedy,” Kropko said, the team found a way to make it work. “The students wrote up very clear documentation as well—a step-by-step guide on how to use the code—with the idea that they can then package it as a software and give it to Save the Children,” says School of Data Science professor Bill Basener. The team also connected the nonprofit with the space technology company Maxar, which can provide a regular stream of satellite imagery for the software to use.

**Impact**
The results illustrate the importance of collaboration, the researchers say. “It’s easy for data scientists to think we can save the world without actually working with anybody,” says Kropko. “Instead, we need to incorporate quantitative data tools into the arsenals of the groups that are already doing the work. Save the Children has plenty of experience solving these very important issues of migration. We’re just assisting them in their mission.”
Results
The results didn’t answer the team’s question as straightforwardly as they hoped, highlighting the need for further research. But a pattern did emerge when the team looked at a related aspect of the data: patient comorbidities such as diabetes, obesity, and chronic heart failure. African American patients had the highest number of these, followed by Hispanic patients. “That tells a clear story,” Assefa says. “Comorbidities do not develop overnight. Looking at these numbers, you can see how environmental racism and structural racism play a role even in our health.”

Impact
The team’s findings on comorbidities, as well as future research into health equity for people with concurrent COVID and stroke, could have important real-world applications, notes Assefa. “Healthcare systems need to know what the situation is,” he says. “I hope that in the future, data like ours can help them see where certain groups are not receiving the same level of treatment, and maybe lead to the development of programs that will make our medical professionals more aware.”

Background
“We know health inequity is an issue. The pandemic has made that clear,” says Ethan Assefa, a recent University of Virginia graduate who has begun his Master of Public Health at Boston University. “Now we need to better understand how widespread it is, so that we can take steps from there.”

As part of the School of Data Science’s UVA-HBCU Bridge to Summer Research Data Science Program, Assefa and four other undergraduates—Suliah Apatira, Esau Hutcherson, Rehan Javaid, and Dahnielle Milton—worked closely with School of Data Science professors. Deloitte AI Institute for Government and Oracle for Research funded their efforts. Assefa and his fellow researchers, who are students at UVA, Spelman College, and Howard University, wanted to know the answer to a specific question: Are patients with both COVID-19 and ischemic stroke receiving equal medical care, regardless of their demographics?

Methods
Looking at equity variables such as race, age, and socioeconomic status, the team analyzed a data set taken from the National COVID Cohort Collaborative, which houses information for more than 6.4 million patients.
Education
Data scientist is one of the top three fastest growing jobs, according to LinkedIn’s *Emerging Jobs Report*. By working with experts in diverse domains, applying data science to real-world issues, and learning both the practical application of data science and the principles behind it, our students are poised to become leaders and pioneers in the field.

Our goal is to educate students in data science throughout their academic journey and as lifelong learners, from undergraduate to professional.
UVA School of Data Science graduates are sought after by employers and add immediate value to their company and clients. They bring a unique set of skills, from data engineering and integration, to data modeling and visualization, to data analysis and reporting. M.S. in Data Science alumni are taught the value of responsible data science in practice through a rigorous master’s program with a focus on cultivating collaboration, integrity, knowledge, and curiosity.

**M.S. in Data Science**

**Typical Class Profile**

The M.S. in Data Science is a residential, cohort-based program designed for high-achieving students interested in data science. Here is a typical class profile averaging the demographics of the last three classes.

<table>
<thead>
<tr>
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<tr>
<td>AVERAGE YEARS WORKED</td>
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<tr>
<td>UVA UNDERGRADUATE</td>
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</tbody>
</table>

**Online M.S. in Data Science**

**Typical Class Profile**

The Online M.S. in Data Science is a cohort-based, five-term program designed for high-achieving students interested in data science. Here is a typical class profile averaging the demographics of the last three classes.

<table>
<thead>
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<td>MILITARY/VETERAN</td>
<td>1%</td>
</tr>
<tr>
<td>UVA UNDERGRADUATE</td>
<td>40%</td>
</tr>
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</table>

**EMPLOYMENT STATISTICS**

- **86%** EMPLOYED
- **9%** POST-GRAD INTERNSHIPS
- **$87,000** AVG. BASE STARTING SALARY

**SAMPLE JOB TITLES**

- Associate Consultant
- Data Analyst
- Data Scientist
- Data Science Associate
- Deployment Strategist
- Director of Data Science
- Engagement Manager
- Financial Engineer
- Junior Data Analyst
- Machine Learning Consultant
- Machine Learning Engineer
- Modeling & Simulation Specialist
- Product Data Analyst
- Research Associate
- Research Data Engineer
- Senior Associate Data Scientist
- Senior Statistician
- Systems Engineer

**SAMPLE HIRING COMPANIES**

- Amazon
- APT
- Argus
- Bain & Company
- Booz Allen Hamilton
- Capital One
- CCRi
- Chewy
- ComScore
- Deloitte
- Department of Defense
- Fannie Mae
- Global Risk Intelligence
- Green Bay Packers
- Health IQ
- Human Geo
- IBM
- Kaleo
- KPMG
- LMI
- Merkle
- Metis Machine
- MITRE
- National Institutes of Health
- Nielsen
- Northrop Grumman
- Notch
- Opex Analytics
- Patella
- Procter & Gamble
- PwC
- RedHat
- Riskspan
- RS Energy
- S&P Global Market Intelligence
- Singularity
- Thomson Reuters
- U.S. Bank
- Verisk Analytics

* based on 83% reporting, MSDS Class of 2020
Matthew Thomas received his M.S. from the School of Data Science in 2020. Today, he works as a data scientist for Inclusively, a startup that connects job seekers who have disabilities with inclusive employers. Thomas spoke with us about what it’s like to design job-matching AI that gives all applicants a fair chance.

What makes the AI you design more inclusive?
Companies want AI software that will send them the best people. The problem is, a lot of job-matching software has biases towards many different demographics, and one of them is people with disabilities. The AI that I design still looks at skills and other qualifications that applicants have, like other job-matching software does, but it’s from the perspective of lifting people up and paying attention to the parts that matter, rather than saying, “Let’s try to weed out as many people as we can.”

How do you avoid unfairly weeding people out?
I’ve learned a lot from conferences where people with disabilities share their biggest roadblocks. For example, a lot of job-matching AI will weed out people who have gaps in their resume. If you’re disabled, you’re more likely to have those gaps, but not necessarily for a reason that would make an employer not want to hire you.

I also try to create AI that doesn’t act like an HR department. It’s easy to think, “Don’t we want the AI to do what a human can do? Isn’t that the whole point of automating it?” Well, not necessarily. You want it to do a task that a
human is doing, yes. But you don’t necessarily want it to go about that task in the same way.

**So how do you think less like a human?**
A lot of it has to do with not inadvertently putting your biases onto the AI. Some years ago, people at a large tech company designed a software that took the resumes of people who had been successful there and looked for applicants with similar qualifications. It makes sense from a human perspective, but the AI just ended up confirming existing biases. If your workforce is more male than female, which was the case then among the engineers at the company, then that kind of AI is going to pick up on subtleties in resumes that identify people as female and weed them out, because that is how deep learning works. It can find things that humans can’t find.

**What insights from your time at the School of Data Science have stuck with you?**
People often come to AI with good intentions, but it can morph into something that ends up having negative effects, like facial recognition technology or crime-fighting technology. In my classes at the School of Data Science, we talked a lot about how you have to be vigilant and consider long-term repercussions. That mindset has certainly helped me with what I’m doing right now, especially when I think about avoiding certain biases. I don’t try to focus on getting something up and working right this minute. Instead, I think about building something that will last—and about how it’s going to look five or 10 years from now.”

“In my classes at the School of Data Science, we talked a lot about how you have to be vigilant and consider long-term repercussions. That mindset has certainly helped me with what I’m doing right now, especially when I think about avoiding certain biases.”

— Matthew Thomas
Diversity, Equity, and Inclusion
Championing Equity

Our society faces immense challenges related to the COVID-19 pandemic, systemic racism, and broad economic uncertainty. At the School of Data Science, our mission remains clear. From our inception, we have sought to center ethics, inclusion, and transparency in all we do. The urgent challenges of this moment have prompted our school to accelerate and reallocate our resources and efforts in this area.

Data can uncover systemic inequities and injustices—yet our field cannot solve these issues without diverse voices. We recognize that like institutions everywhere, we still have much room for growth in this area, and we welcome new partnerships that share our vision of equity and innovation.

Creating Diverse Program Pipelines

Although we have made some progress in the diversity of our students, we still have far to go when it comes to our faculty. In addition to partnering with K-12 schools to ensure a diverse candidate pool, we are building relationships with minority-serving institutions to attract diverse graduate students and prospective faculty. We are also increasing our presence at conferences and professional associations focused on serving underrepresented communities.

Fostering Inclusive Excellence

Working with the UVA Alumni Association, we have established merit-based fellowships to support minority students. The first merit-based M.S. in Data Science Graduate Fellowship for Inclusive Excellence will be awarded annually to an incoming underrepresented graduate student of color or first-generation female whose application demonstrates academic merit, leadership potential, and a passion for data. We are also committed to supporting research projects that focus on diversity, equity, and inclusion.

Welcoming Top Talent

Siri Russell recently joined the School of Data Science as the Associate Dean of Diversity, Equity, and Inclusion after having established a highly functional DEI office to serve the many branches of local government in Albemarle County, where the University of Virginia resides. Renée Cummings has also joined us as the inaugural Data Activist in Residence. She specializes in implicit bias, artificial intelligence ethics, and best-practice criminal justice.
A conversation with Siri Russell, Associate Dean of Diversity, Equity, and Inclusion

The former inaugural director of diversity, equity, and inclusion for Albemarle County in Virginia, Siri Russell became the new associate dean of DEI for the School of Data Science in the summer of 2021. Here, she shares the core values and persistent questions that shape her approach to increasing and supporting diversity, equity, and inclusion.

On why DEI work is nothing like building a rocket

I once heard [an equity officer say] that DEI isn’t rocket science. When we say that, we don’t mean
that it’s not complex. You and I could go out right now and build a rocket ship. If we had the money, if we hired people with the right skills, we could follow certain steps—in other words, there’s a blueprint for building a rocket ship and getting to the moon. But there’s no blueprint yet for achieving equity in a system. We don’t have a lot of really successful examples, whether it’s in a higher education system, a housing system, or a food system. So we have to be really innovative and in tune with our context.

On “I” vs. “we”
A lot of people want to know what would bring me from a local government position—a really community-oriented, human-centered position—into a school of data science at a higher ed institution. A great deal of it was faith that this is a school that means to make good on its mission. Two of the school’s central tenets are collaboration and using data science for societal well-being. Diversity, equity, and inclusion work is central to being able to accomplish those things. One of my favorite quotes, which is often attributed to Malcom X, is “When ‘I’ becomes ‘we,’ even illness becomes wellness.” When I think about collaboration, that is what I’m thinking about. How do we go from the “I”—even the “I” of “institution”—into the “we” of greater community?

On why we need transparency—even when it’s painful
We are being honest about where we haven’t had success. Diversity in data science is a real issue, and our school is not an exception to that. Doing this work well requires transparency, and we know we need to be transparent to the point of pain. If everything you put forward is your hype song, you’re not holding your organization accountable in an authentic way—a way that engenders trust. The folks who are really, truly engaged in doing the work for public good, the work for equity, the work for diversity—those folks are looking for allies and partners, and allies and partners can only be found in honesty and vulnerability. We are just as bad as everybody else. That’s not a thing to be proud of, but we also can’t run away from that. This school is trying to do the work to be better. We call ourselves the school without walls, and we’re trying to actively connect to a larger community that we look to for partnership—but also to keep us accountable.

On the power of innovation
I think the heart of this school has been turned towards diversity, equity and inclusion for a long time. This is a school of firsts, a school for explorers who aren’t chained to the status quo or to how things have always been. There’s an innovation engine here. I think that’s important to highlight. To actually operationalize diversity, equity, and inclusion and really saturate the school with those values, we have to be different than anything that’s come before.
Partnerships

New School, New Space     Research     Education     Diversity, Equity, and Inclusion     Partnerships
Transforming Society

Data is changing the way we do everything. Researchers at the School of Data Science have used data from hospital monitors to better treat patients, credit card data to prevent fraud, and transportation data to reduce accidents. All of this requires cutting-edge knowledge of data science tools and techniques, as well as the ability to put them into practice. That’s why we collaborate with community, industry, and government organizations to connect our work with theirs.

Here are a few of our current partners:

**GOVERNMENT**
- NASA
- U.S. Army
- U.S. Navy

**COMMUNITY**
- Metropolitan Museum of Art
- University of Virginia Health System
- Wikipedia Foundation

**INDUSTRY**
- Capital One
- Deloitte AI Institute for Government
- IBM
- LMI
- Maxar
- Microsoft Azure
- S&P Global
- Oracle for Research
- QIM

Partnership Opportunities

Scholarships. Faculty research projects. Recruiting and mentorship. New initiatives, like our HBCU Bridge to UVA Data Science program, which convenes minority students and researchers to address health equity. New spaces, like our Open Lab, a center for hands-on experience with free and open-source technologies.

We have a wide range of partnership opportunities—visit our website to learn more.
“Data science and data analytics have always been core to Capital One’s DNA, and we’ve been proud to support the growth of data science talent through our partnership with the University of Virginia. UVA approaches data science with a true understanding of how interdisciplinary this work is.”

— Rob Alexander, Chief Information Officer, Capital One

**Partner Mission**

Capital One was founded on the belief that the banking industry would be revolutionized by information and technology, beginning with credit cards. The company is on a mission to bring humanity, ingenuity, and simplicity to banking.

**Partnership Impact**

In April 2021, Capital One’s Center for Machine Learning gave $2 million to name the central hub for the School of Data Science’s new building. As a prime gathering place for learning, sharing ideas, research, teaching, and community interaction, the hub will promote opportunities for discovery across the University of Virginia and the city of Charlottesville.

“The Capital One Hub will be a public space available not just for UVA students, faculty, and alumni, but also for the greater Charlottesville community and beyond,” says Dean Bourne. “In that space, we’ll be able to hold a range of events which, by welcoming the wider community, reach far beyond the school itself.”
As one of our founding corporate partners, Capital One has collaborated with the School of Data Science since its inception, making the company’s support of our new building especially meaningful. The company partners with the School of Data Science in an array of other important ways by:

- Providing career mentors to our students
- Participating in our speaker series
- Funding graduate capstone research projects, which challenge students to acquire and analyze data to solve real-world problems
- Sponsoring Datapalooza, an annual event that showcases research and industry trends across the University of Virginia and the greater data science community
- Sponsoring Women in Data Science, an independent event we organize to coincide with the annual Global Women in Data Science Conference held at Stanford University.
Kerry Jones, M.S. in Data Science 2017
Data Machines Corporation, Machine Learning Engineer (Washington, DC)