



## Fighting Social Injustice with Data Science

### FUNDING NEEDS FOR RESEARCH AND TEACHING AT THE INTERSECTION OF SOCIAL JUSTICE, ETHICS, AND DATA SCIENCE

Our UVA family and the world already face unprecedented challenges related to COVID-19. At the same time, our community faces increasing disunity around issues of race, inequality, and social injustice.

UVA's new School of Data Science is fulfilling this mission through proactive outreach to diverse communities to conduct **research and teaching to combat social injustice**. The School of Data Science is the first of its kind in the nation, yet it has already convened the best and brightest in data science—a flourishing field that intersects all aspects of society, including epidemiology, health care, economics, public policy, among others. Working in partnership with UVA's Equity Center, the Frank Batten School of Leadership and Public Policy, as well as external research centers at the intersection of data science and racial justice, we strive to leverage our shared expertise to find solutions and build community in a time of uncertainty.

Our ability to overcome extraordinary challenges requires extraordinary levels of support. The School of Data Science is seeking new resources to ensure that we can fight social injustice today—and better prepare our global community for unforeseen crises in the future.

## FUNDING NEEDS FOR THE SCHOOL OF DATA SCIENCE

### Faculty Hiring and Support

- Support for a Data Activist in Residence
- Funding for faculty hiring – five tenure-track professors and three assistant professors
- Expansion of undergraduate offerings to support a data science minor (expected in Spring 2021)
- Support for faculty research projects
- Collaborative efforts between UVA's eleven other schools

Support needed: \$100,000+

### Student Fellowships and Diversity Initiatives

- Support for students of color embarking on data science careers through our Ridley Scholarship partnership
- Sponsorships for our annual [Women in Data Science](#) conference
- [Presidential Fellowships](#) for diverse graduate student collaboration across Grounds
- [Capstone Research Projects](#) at the intersection of data science and racial injustice
- [Corporate Partnerships](#) to foster enhanced recruiting and mentorship for diverse student populations

Support needed: \$1,000 - \$10,000+



## ADDITIONAL AREAS OF RESEARCH

Research at the School of Data Science spans all disciplines and industries, including science, medicine, finance, policy, law, and the humanities.

- Ethics and justice
- Normativity – the evolution of rule and law making
- Quantitative analysis of democracy
- Global health modeling in a pandemic
- Pandemic health information – iTHRIV, language translation (e.g. Wikipedia in India)
- Biomedical data sciences
- The brain and data science
- Environmental science
- Materials science and machine learning
- Neuroscience informatics – neurogenerative disorders, autism, imaging

- Educational analytics and impact of online education during COVID-19
- Digital humanities and digital library archives, text analysis
- Cybersecurity
- Financial modeling – business analytics and supply chains
- Smart cities and predictive modeling

## PARTNERSHIP OPPORTUNITIES

The School of Data Science is on the brink of unprecedented breakthroughs—but we need your support. We welcome the opportunity to partner with you and your company around innovative data science research and teaching. Together, we can not only promote equity and justice, but ensure the continued health and well-being of our community and our world. Thank you.

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## CONTACT

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