Radcliffe Alumnae Professorship and Fellowship
Update from Radcliffe Institute for Advanced Study
October 30, 2020

I hope this message finds you and your loved ones safe and well. As Radcliffe enters its third decade as an institute for advanced study, we are deeply grateful to alumnae and supporters like you who have helped the Institute to become what it is today. We are particularly thankful for your support of the Radcliffe Alumnae Fellowship and Professorship, which continue to provide outstanding scholars with the chance to conduct deep research within our unique interdisciplinary community. In recognition of your generosity, I write today with an update on these funds.

In academic year 2018–2019, Marine A. Denolle, a seismologist and assistant professor of earth and planetary sciences in the Harvard Faculty of Arts and Sciences, held the honor of serving as the Radcliffe Alumnae Fellow. The fellowship gave Marine the time and space to concentrate on her research on large earthquakes and their impact on human populations. You can read more about Marine's work and her experience as the Radcliffe Alumnae Fellow here. Joining Marine in the 2018–2019 fellowship cohort was Cynthia Dwork, a Radcliffe Alumnae Professor and a Gordon McKay Professor of Computer Science at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS). Cynthia spent her second of four semesters in the Radcliffe Fellowship Program applying her work in theoretical computer science to real-world challenges, such as determining individual risk in medical settings. In this report, Cynthia describes her scholarship in greater detail and notes that the Radcliffe Fellowship was of "immeasurable value."

More recently, Susan A. Murphy, a Radcliffe Alumnae Professor and a professor of statistics and computer science at SEAS, participated in the Fellowship Program during the 2019–2020 academic year. Susan develops data analysis methods and experimental designs to improve real-time decision-making in mobile health—in

particular, algorithms that can be deployed on wearable devices—to deliver individually tailored treatments. You can read more about Susan's work in this report, where she credits her fellowship with allowing her "to think more carefully and deeply about how to develop these algorithms."

Lastly, I am pleased to announce our newest Radcliffe Alumnae Professors: Laura DeMarco PhD '02 and Melanie Matchett Wood, who both joined the University's Department of Mathematics this past July. A member of the National Academy of Sciences, Laura came to Harvard from Northwestern University, where she was the Henry S. Noyes Professor of Mathematics. Her research is focused on dynamical systems, arithmetic geometry, and complex analysis. Meanwhile, Melanie's research is focused on number theory, arithmetic and algebraic geometry, topology, probability, and random groups. Before joining the Harvard faculty, Melanie was a Chancellor's Professor at the University of California, Berkeley and an American Institute of Mathematics Five Year Fellow. Laura and Melanie will each spend two years in the Radcliffe Fellowship Program, and we look forward to keeping you updated on the development of their research during their time here.

From Marine, Cynthia, Susan, Laura, Melanie, and all of us at the Radcliffe Institute, *thank you.* The Radcliffe Alumnae Fellowship and Professorship enable leading scholars at Harvard to conduct pathbreaking work that enriches our society.

With appreciation,
Stacey

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