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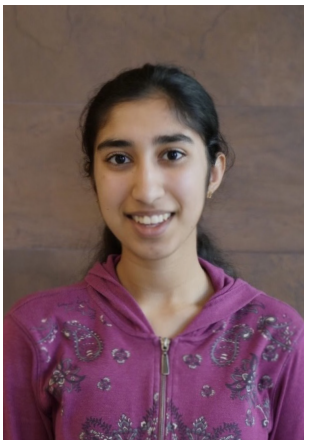
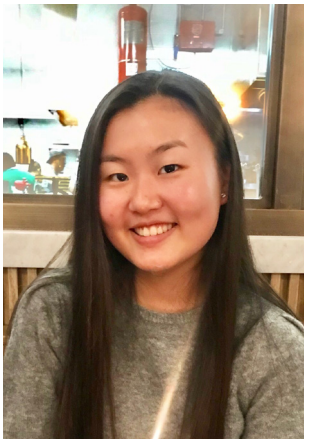


Ananya Krishnapura



Rebecca Park

During this past fall, our writing staff had the pleasure of hearing from Dr. Oliver O'Reilly on how he and a few members of his lab answered a question that had mystified him for years: What makes shoelace knots come untied? After his presentation—which proved to be equal parts engaging and enlightening—we reflected on the content further as we began discussing what excited us about the lab's step-by-step process of discovery. Now, as we both assemble this issue and enter our final semester as undergraduates, it is this conversation that comes to mind as we find ourselves dwelling on the broader question: What excites us about science as a whole?

Perhaps it is the contagious spirit of natural curiosity that the field espouses, or perhaps it is the sense of awe that arises as we look toward what the future promises for scientific discovery. No matter what inspires each of us to continue to explore this field, with this issue of the Berkeley Scientific Journal, it is our collective hope to evoke in readers a similar sense of wonder and enthusiasm for science as opposed to fear and distrust—the signal in the noise, as it were.

In recent years, science journalism has experienced an explosion of content—and with it, an ever-expanding source of knowledge, discovery, and technological advancement. Throughout this issue, we aim to present at least a fraction of the vast diversity inherent to science in the hopes of sharing our excitement for the field and leading to a better understanding of it. For instance, in an interview with Dr. Scanziani, our Interviews team examines REM sleep and the visual processes involved in dreams. On the other hand, in his piece on Skywave, Features writer Michael Xiong explores an entirely separate facet of science as he details the fascinating history of radio communication and explains the various principles behind it.

Whether you are an avid science enthusiast or a reader who has stumbled upon this journal by chance, we encourage you to approach this issue with an open and inquisitive mind. Perhaps, in the process, you will find yourself adjusting your own mental receiver and picking up on a different signal as we guide you to a deeper reflection of what excites you about the science in this issue.

We are proud to present the Fall 2022 issue of our journal: *Signal*.

Ananya Krishnapura
Editor in Chief

Rebecca Park
Managing Editor