

STAFF

Editor-in-Chief

Ananya Krishnapura

Managing Editor

Rebecca Park

Features Editors

Anna Castello

Marley Ottman

Interviews Editors

Allisun Wiltshire

Andrew Delaney

Research and Blog Editors

Bryan Kim

Sinead de Cleir

Layout Editors

Aarthi Muthukumar

Stephanie Jue

Publicity and Finance Chairs

Caroline Kim

Shreya Ramesh

Copy Editors

Daniel Cui

Eunice Tsang

Features Writers

Aashi Parikh

Abby Wilber

Corey Dodon

Letian (Jane) Li

Lara Nadine Potgieter

Medha Madhav

Melody Li

Merve Ozdemir

Michael Xiong

Rebecca Ferreira Alves

Varun Upadhyay

Interviews Team

Anjali Niyogi

Ann Palayur

Baani Sabharwal

Christopher (Auto) Yu

Grace Guan

Hannah Van Mullem

Jordan Shellow

Leilani Hernandez

Luyang Zhang

Miriam Goodwin

Sania Choudhary

Tanya Sanghal

Research and Blog Team

Anjali Sadarangani

Annalise Steinmann

Jenny Yuan Han

MJ Smith

Maida Suta

Layout Designers

Christopher (Auto) Yu

Elena Chen

Iris Hsu

Michael Xiong

Riya Bhatia

Publicity and Finance Interns

Jenny Yuan Han

Jordan Shellow

Rebecca Ferreira Alves

EDITOR'S NOTE



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