

**2022 Hertz Fellowship application open through
October 29, 2021.**

Constantine Tzouanas

Fellowship Awarded 2020



Constantine Tzouanas' long-term goal is to engineer biological systems to address pressing needs, from organ transplants to environmentally responsible chemical production.

A National Science Foundation Graduate Research Fellow in the Harvard-MIT Health Sciences and Technology program, Constantine is pursuing a PhD in medical engineering and medical physics with a concentration in biological engineering.

As a member of Professor Alex Shalek's lab, he researches how the properties and interactions of individual cells produce the emergent phenomena needed for tissue- and organism-level function. He has contributed to and led projects that include technology development of spatial transcriptomics methods and bioinformatics approaches to understand the regulatory mechanisms of SARS-CoV-2 infection.

As an undergraduate at Rice University, he worked in the lab of Professor Jacob Robinson on research ranging from the mechanisms of engineered ion channel

gating to circuit neuroscience in the immortal jellyfish *Hydra vulgaris*. He graduated summa cum laude from Rice in 2019 with a bachelor's degree in bioengineering and a minor in neuroscience, a certificate in engineering leadership, and a distinction in research and creative works.

He was awarded the Goldwater Scholarship, received the Trustee Distinguished Scholarship, and was named Rice University's top engineering senior of the class of 2019.

Outside of research and coursework at MIT and Harvard, Constantine serves as an officer of the MIT Biotech Group and in the Harvard-MIT Health Sciences and Technology Joint Council. In his free time, Constantine enjoys running, ultimate frisbee, and baking.

"My vision also holds promise for addressing pressing needs from organ transplants to environmentally responsible chemical production."

– Constantine Tzouanas

Graduate Studies

Massachusetts Institute of Technology

Field of Study: Bioengineering

Awards

2019, Distinction in Research and Creative Works, Rice University

2019, Outstanding Senior, Rice University Department of Bioengineering

2016-2019, Hard Hat Award, Rice University Department of Engineering

2015-2019, President's Honor Roll, Rice University

2018, Outstanding Junior, Rice University Department of Bioengineering

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