



Neda Fakhimi

Affiliate, Central Mgmt-Misc AR

Bio

BIO

Neda is an interdisciplinary scientist working at the intersection of bioscience and chemical engineering, with a deep fascination for the function and potential of microbes. Her research focuses on photosynthetic green microalgae, which she finds both visually captivating under the microscope and remarkably capable in their physiological roles. As a postdoctoral scholar in Dr. Arthur Grossman's lab at Carnegie Institution for Science, she investigates the physiological and biochemical functions of NAD kinase isoforms and their roles in regulating central carbon metabolism in photosynthetic systems. Ultimately, she aims to integrate these molecular insights to enable sustainable bioproduction of high-value products, combined with carbon sequestration and waste resource recovery. She also collaborates with a multidisciplinary team of biologists and computer scientists to develop advanced machine learning models for predicting organelle targeting and dual localization of proteins in the green lineage, tools required for advancing fundamental research in this area.