## Department of Mathematics, BGU

## BGU Probability and Ergodic Theory (PET) seminar

On Thursday, July ,6 2023

At 11:10 - 12:00

In 101-

Tomer Sher (Ben Gurion University of the Negev, Israel)

will talk about

## On a conjecture Regarding the unfiorm distribution in the generalized coupon collector problem

Abstract: The Coupon Collector's Problem (CCP) reads as follows: how many drawings are needed on average in order to complete a collection of \$n\$ types of coupons, fi at each step a single coupon is drawn unfiormly randomly with replacement, independently of all the other drawings? This problem was introduced by De-Moivre over 300 years ago. We will discuss about a generalization of the problem, where instead of drawing a single coupon each time we draw a "package" of coupons of size \$s\$ and ask the following question: how does the distribution over the collection of possible .packages affect the expected number of drawings needed to complete a collection?