

# האיגוד הישראלי לסטטיסטיקה

## Few and Zero Shot Learning workshop



### Few and Zero Shot Learning - Training multiclass classifiers using few (or even zero) training examples per class

Dr. Yuval Benjamini and Ms. Yuli Slavutsky  
The Hebrew University of Jerusalem

In many classification tasks, for example face or voice recognition, the classifier needs to generalize to unseen classes using very few (or perhaps even no) class-specific training examples. The field of few (or zero) - shot learning focuses on solving these problems.

In this workshop we will introduce the few-shot learning paradigm and discuss how it allows us to move beyond class-specific models into open models for classification. Usually few-shot learning methods will look for a representation that downplays within-class variation, so that examples from the same-class will be represented similarly. We will discuss typical loss functions used to learn these representations ("contrastive learning") and connect these with methods for training classifiers on multiple class-sets ("meta-learning"). Finally, we will discuss how these methods are used by cognitive neuroscientists to study representations in the brain.

The workshop will include an interactive tutorial.

**מתי? יום ראשון 11.12.22 בשעות 14:30-18:30**

**איפה? בית ציוני אמריקה, רח' דניאל פריש 1 תל אביב**

**הסדנה תכלול תרגול מעשי**

**מומלץ להביא מחשבים ניידים (לא ניתן יהיה לטעון)**

**עלות השתתפות: 50 ₪**

**תשלום עד 1.12.22 [כאן](#)**

**מספר המקומות מוגבל**