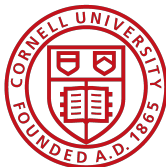


Presentation title here

Subtitle here (e.g., name of conference)

Sara Venkatraman

Cornell University, Statistics and Data Science



Joint work with FirstName LastName, FirstName LastName

Mercer's theorem

Eigendecomposition of a kernel

A continuous function $K : ([0, 1] \times [0, 1]) \rightarrow \mathbb{R}$ is a *kernel* if it is:

- Symmetric: $K(a, b) = K(b, a)$
- Positive semi-definite:

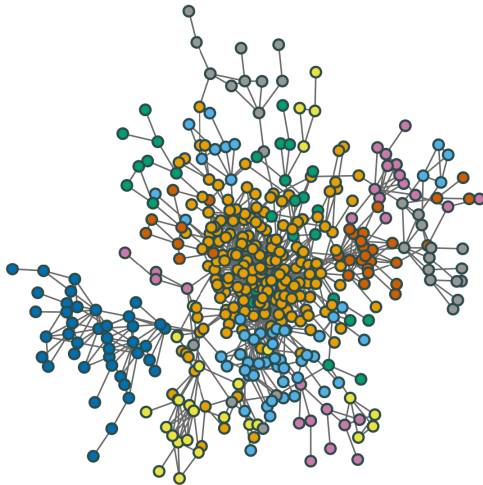
$$\sum_{i=1}^n \sum_{j=1}^n K(x_i, x_j) c_i c_j \geq 0$$

for all $x_1, \dots, x_n \in [0, 1]$ and $c_1, \dots, c_n \in \mathbb{R}$

Now define an integral operator on $\mathcal{L}^2[0, 1]$ using K :

$$(T_K f)(x) = \int_0^1 K(x, s) f(s) ds$$

Example image



References



Paper 1 Title.

Paper 1 Authors.

Journal Name Edition, Year.



Paper 2 Title.

Paper 2 Authors.

arXiv:1234.56789.

Thank you for listening!

Sara Venkatraman

skv24@cornell.edu

<https://sara-venkatraman.github.io>