

# Notation

Throughout this thesis we use Roman letters in place of greek letters wherever possible.

Unbolded  $x$  represents a real number,  $\mathbf{x}$  represents a vector, and  $\mathbf{X}$  represents a matrix. The  $i$ th element of a vector  $\mathbf{x}$  is denoted as  $x_i$ .

Symbol	Description
$\mathbf{h}$	The implicit feature vector corresponding to a kernel.
$\mathcal{O}(\cdot)$	The big-O asymptotic complexity of an algorithm.
$A \otimes B$	The Kronecker product of matrices $A$ and $B$ .
$\mathbf{f}$	The Kronecker product of matrices $A$ and $B$ .