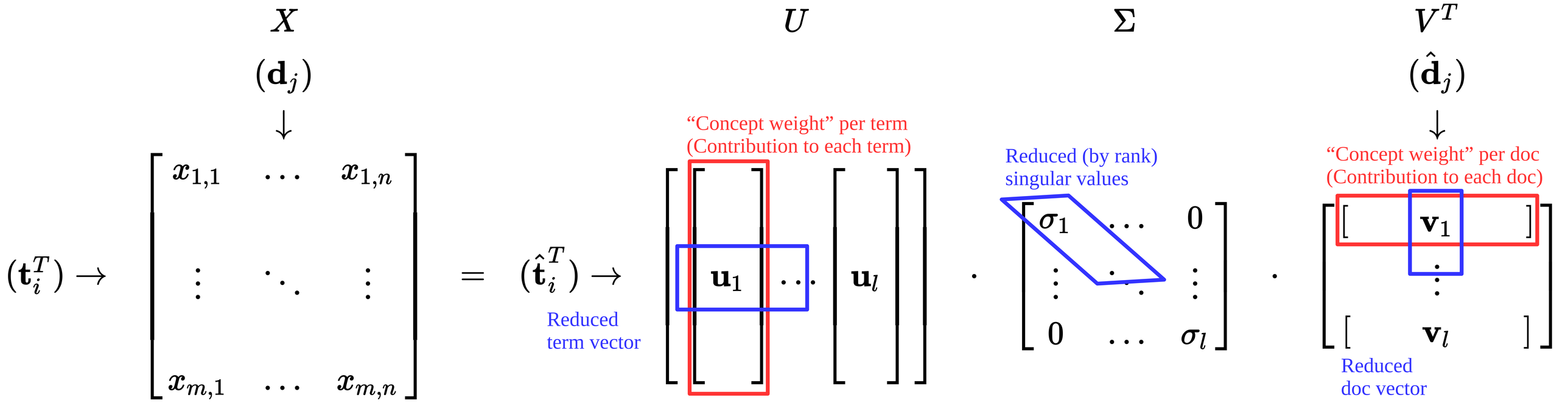
X
$(\mathbf{d}_j)$
$(\mathbf{t}_i^T) \rightarrow$
$x_{1,1}$ $\cdots$ $x_{1,n}$
$x_{m,1}$ $\cdots$ $x_{m,n}$
$=$
U
$(\hat{\mathbf{t}}_i^T) \rightarrow$
“Concept weight” per term
(Contribution to each term)
Reduced
term vector
$\mathbf{u}_1$ $\cdots$ $\mathbf{u}_l$
Σ
Reduced (by rank)
singular values
σ_1 $\cdots$ 0
0 $\cdots$ σ_l
V^T
$(\hat{\mathbf{d}}_j)$
“Concept weight” per doc
(Contribution to each doc)
$\mathbf{v}_1$
$\mathbf{v}_l$
Reduced
doc vector