## 2023-03-17

Suppose $V \in \mathbb{R}^{n \times k}$ is an orthonormal basis for a $k$-dimensional subspace of $\mathbb{R}^{n}$. In Julia, how would you find the $\hat{x}$ in the range space of $V$ that minimizes $\|A \hat{x}-b\|_{2}^{2}$ ?

