import numpy as np

a=np.array([[1,2],[3,4]])

print("or:%s" %a)

print("tr:%s" %a.T)

from numpy import array

from scipy.linalg import svd

a=array([[1,2],[3,4]])

print("a:%s" %a)

U,s,vt=svd(a)

print("U:%s" %U)

print("s:%s" %s)

print("vt:%s" %vt)