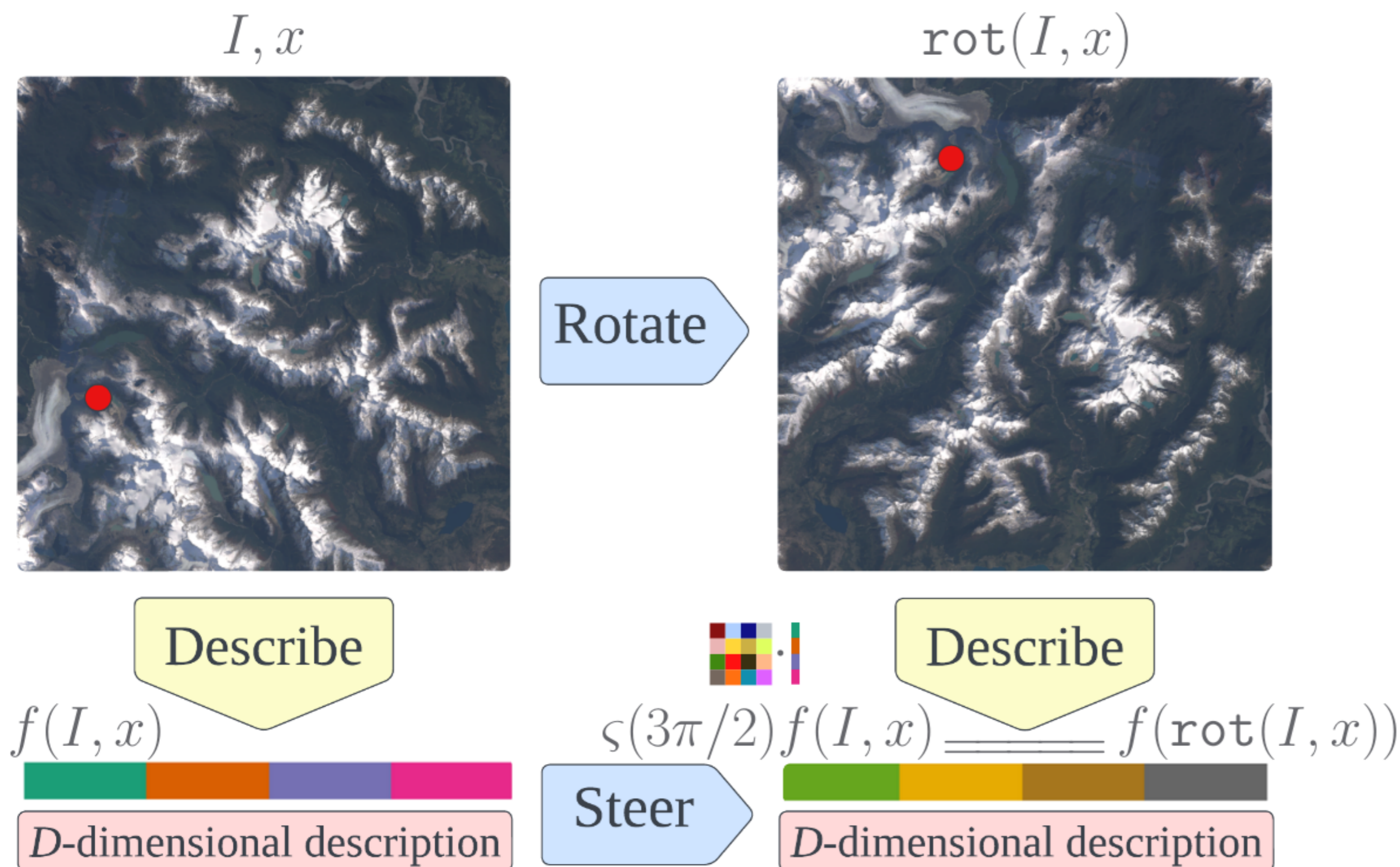
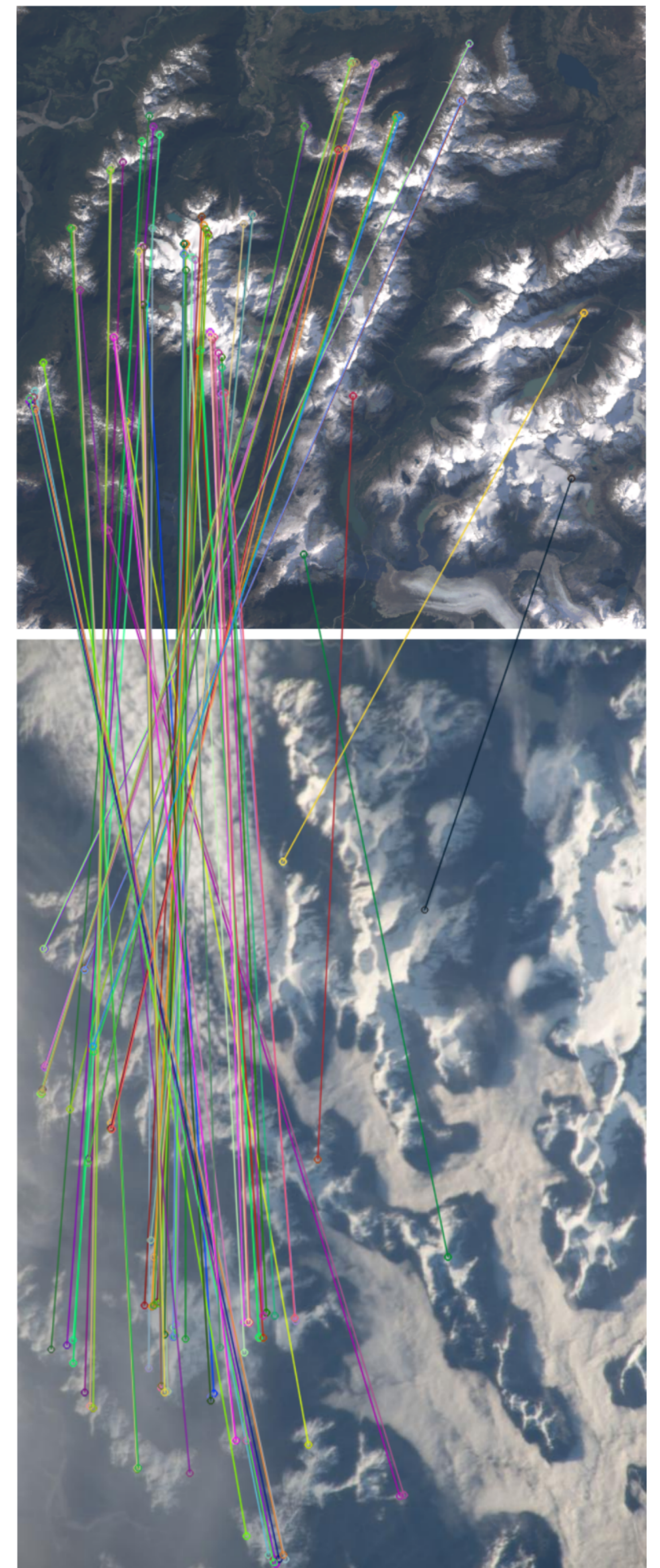


# Steerers: A framework for rotation equivariant keypoint descriptors

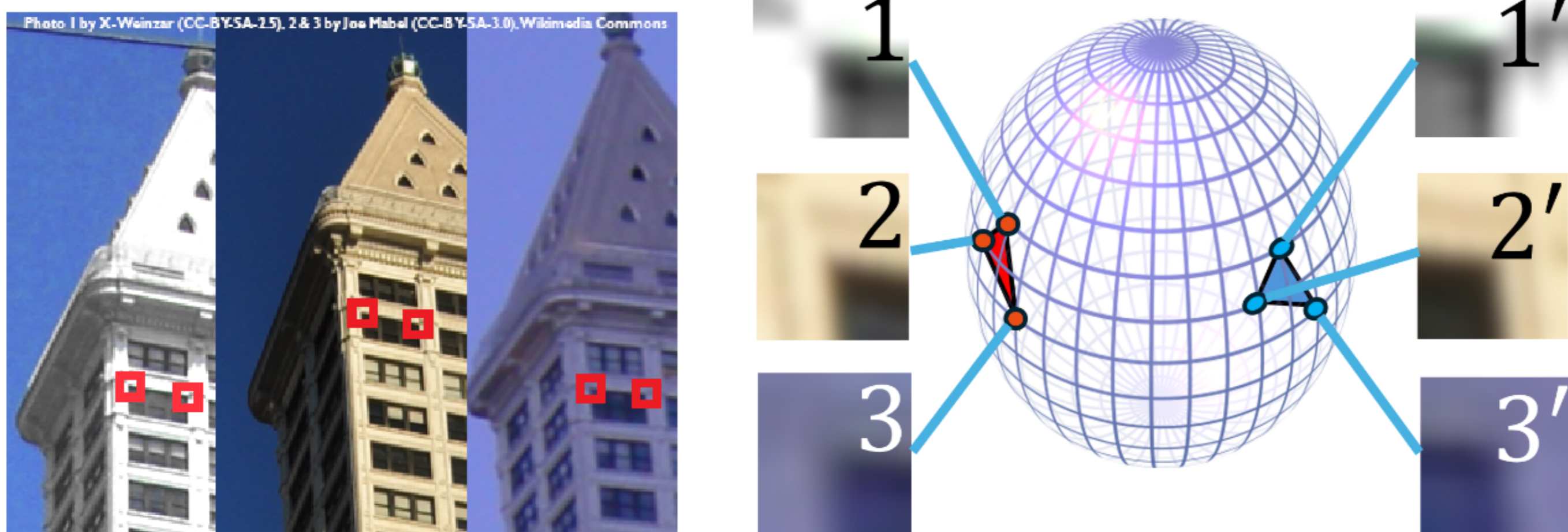
Georg Bökman, Johan Edstedt, Michael Felsberg, Fredrik Kahl



Rotation equivariant descriptors are practically useful for invariant keypoint matching



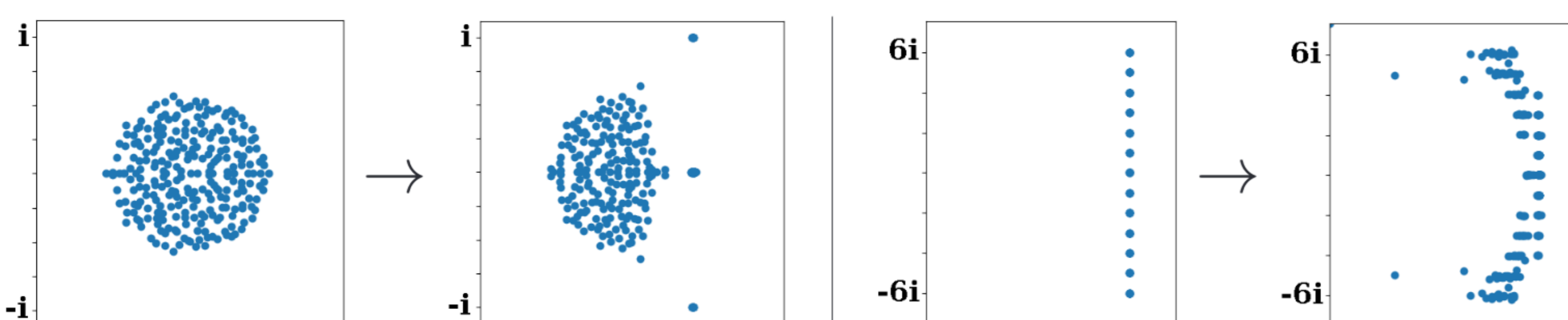
Keypoint description is a naturally rotation equivariant task



$$\langle f(I, x_i), f(I, x_j) \rangle \approx \langle f(I, x_{i'}), f(I, x_{j'}) \rangle$$

Keypoint description can be used to study learning of optimal representations

$$\zeta(\alpha) = Q^{-1} \exp(\text{diag}(\mathbf{i}j_1\alpha, \mathbf{i}j_2\alpha, \dots, \mathbf{i}j_D\alpha))Q, \quad j_d \in \mathbb{Z}$$



Main conference  
Wednesday PM  
Orals 2C, #5  
Poster session 2, #5