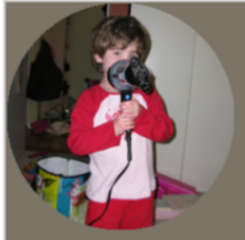
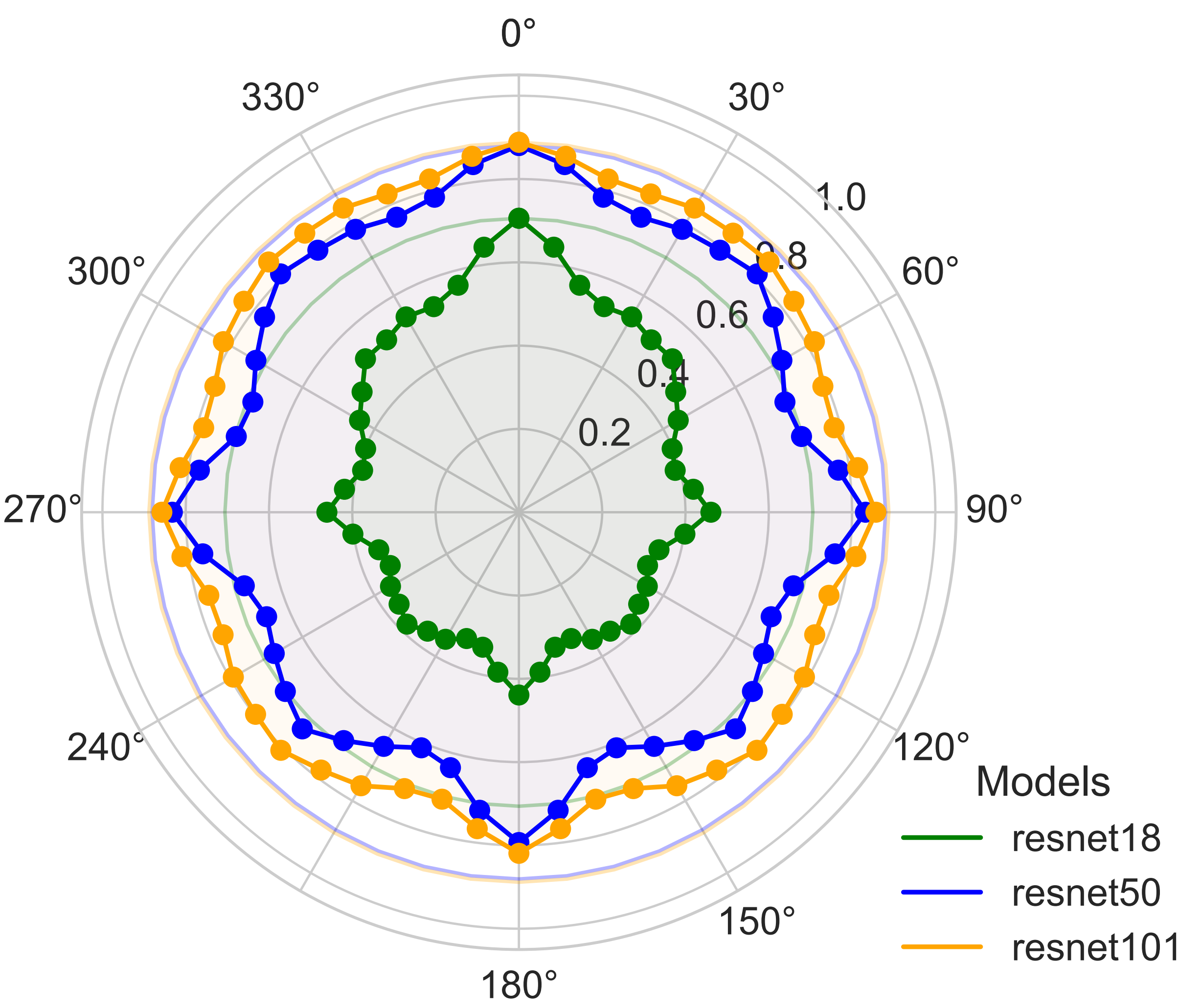
/ 10

Laurent Perrinet - Montreal AI and Neuroscience conference, December 13th, 2025 - Montréal, Québec

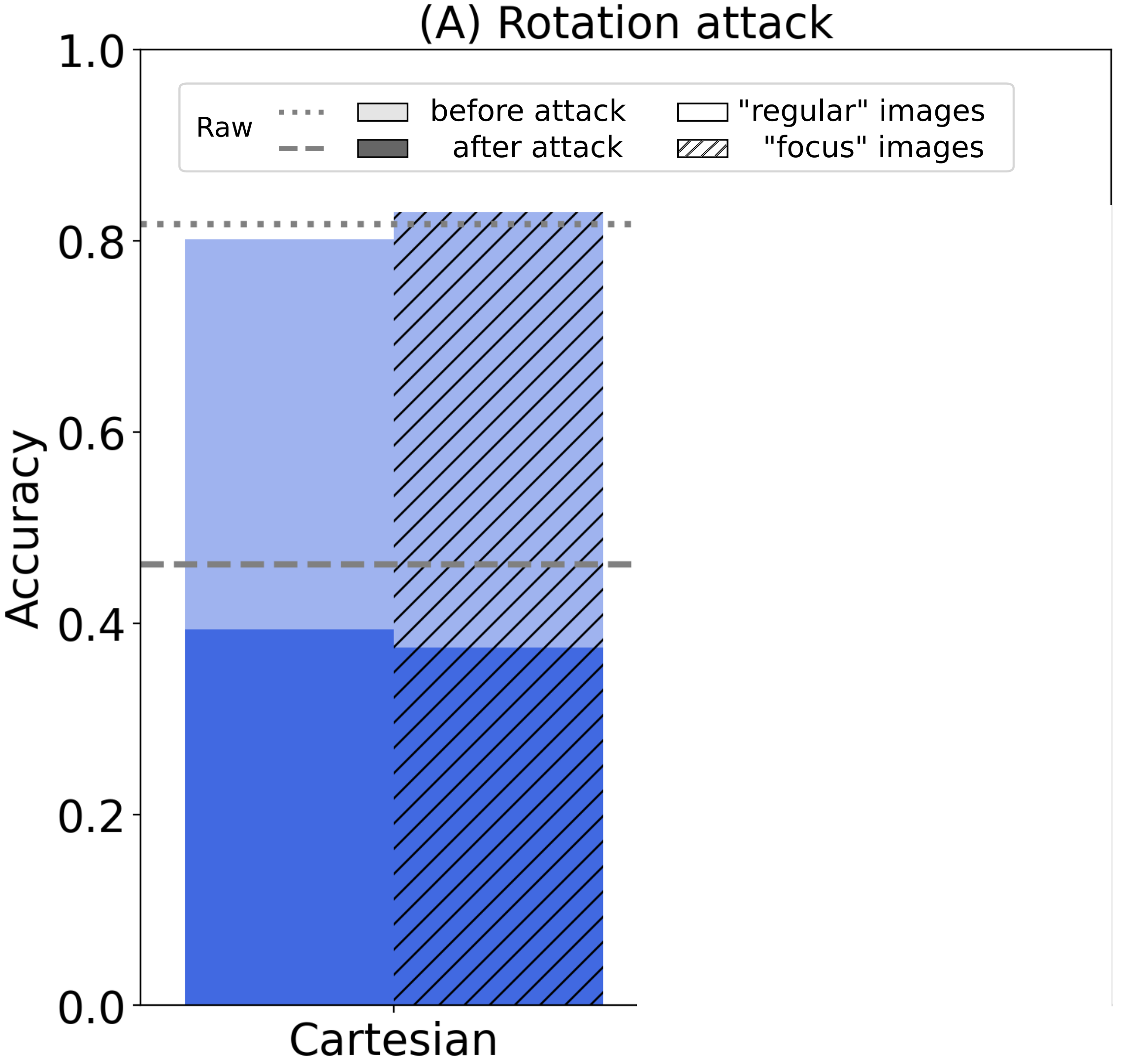
12

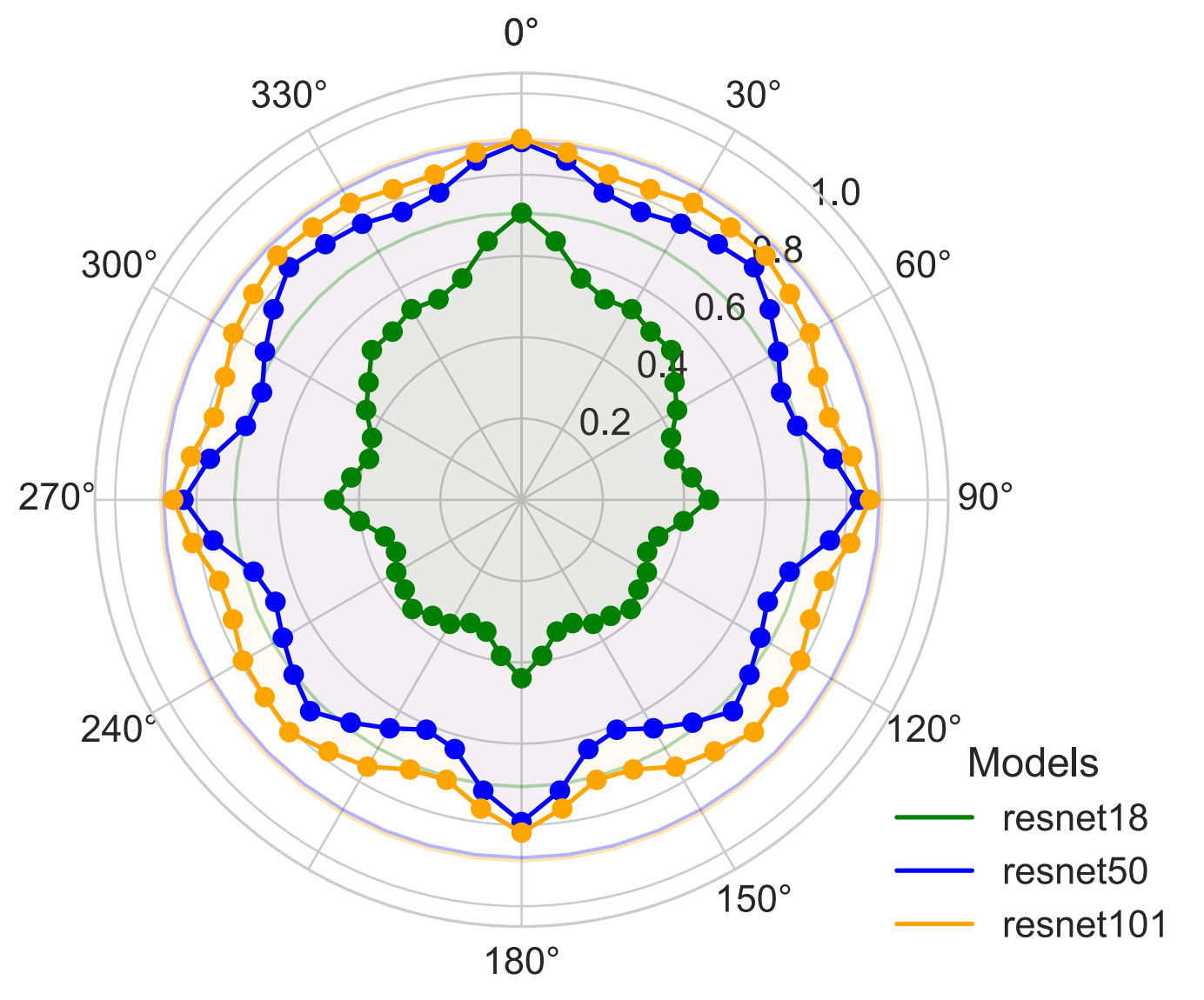
Attacking ConvNets




0°
30°
60°
90°
120°
150°
180°
240°
270°
300°
330°
0.2
0.4
0.6
0.8
1.0
Models
resnet18
resnet50
resnet101

Label hand_blower is predicted as hand_blower and as gasmask (tilt of 274.3°)


(A) Rotation attack
Raw
before attack
after attack
"regular" images
"focus" images
Accuracy
1.0
0.8
0.6
0.4
0.2
0.0
Cartesian


0°
30°
60°
90°
120°
150°
180°
210°
240°
270°
300°
330°
0.2
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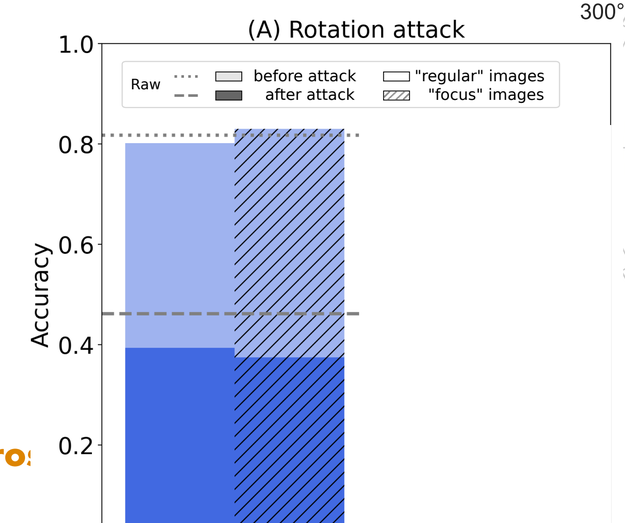
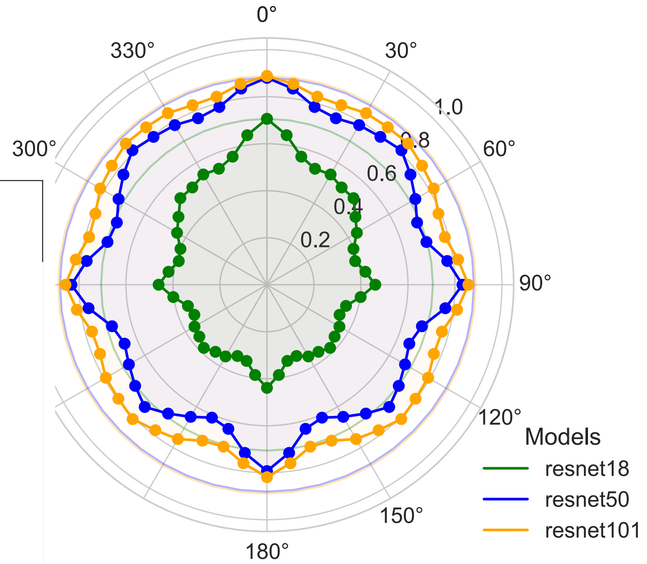
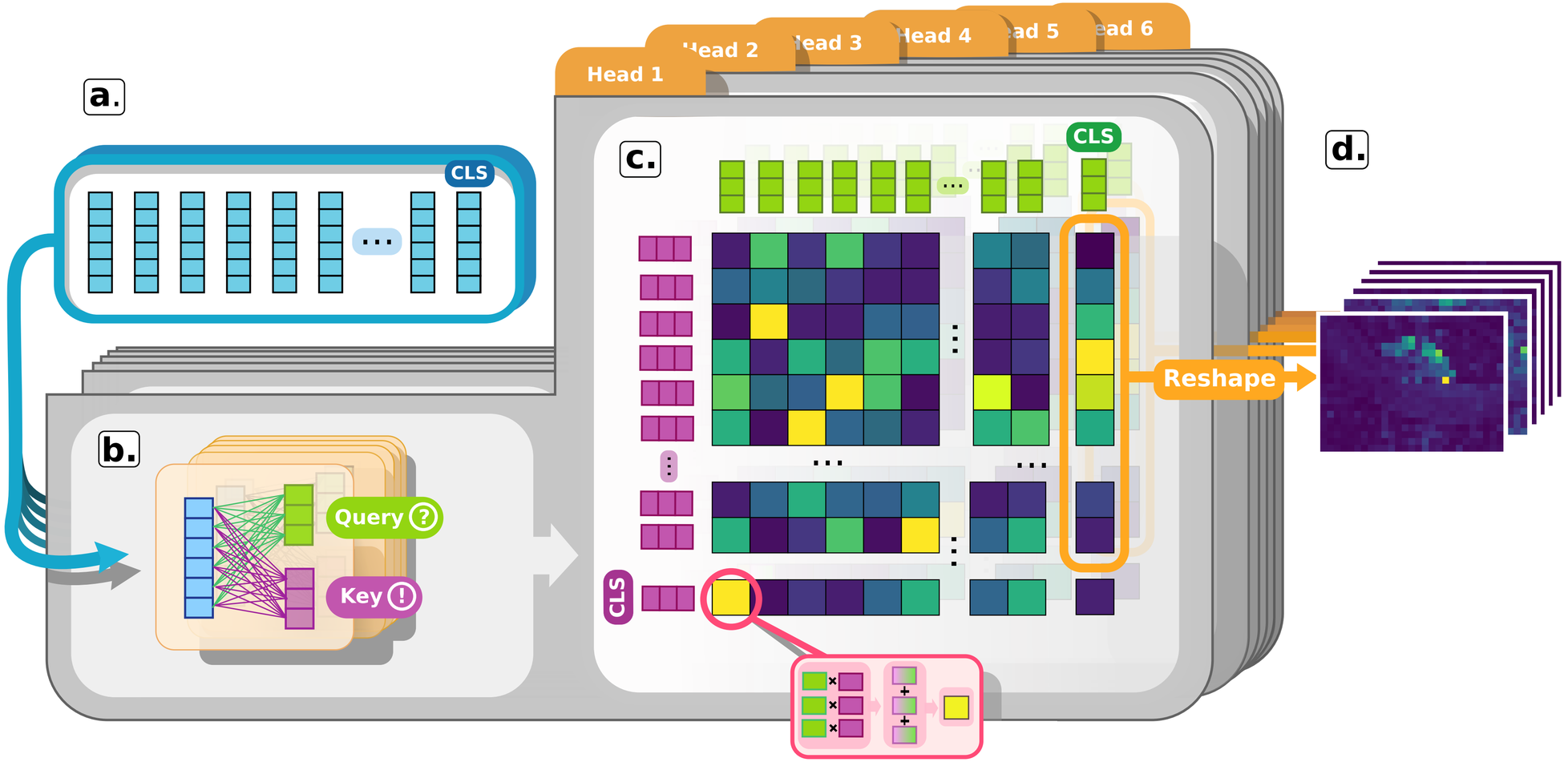




Matthis Dallain

Transformers got a new look



A saccade-inspired approach to image classification using vision transformer attention maps

Matthis Dallain, Laurent Rodriguez, LP, Benoît Miramond