from matplotlib.patches import Circle

for i in range (feat\_loc.shape[1]//2):

c = Circle((RC[i,0],RC[i,1]), radius =1, color='red')

ax.add\_patch(c)

import albumentations as A

#See: https://albumentations.ai/docs/getting\_started/keypoints\_augmentation/

#Which trasforms do keypoints: https://albumentations.ai/docs/api\_reference/full\_reference/

transform = A.Compose([

A.RandomResizedCrop(height=128, width=128, scale=(3/4,4/3)), #p=1, random scale

A.HorizontalFlip(), #p=0.5

A.Rotate(limit=20,p=1) #rand rotate: -limit -> limit

# A.ShiftScaleRotate(shift\_limit=0.1, #rand shift hw: -10% -> 10%

# scale\_limit=0.1, #rand scale hw: 90% -> 110%

# rotate\_limit=20, #rand rotat: -20 -> 20

# p=1) #will always transform

], keypoint\_params=A.KeypointParams(format='xy'))

xform = transform(image=img, keypoints=feat\_list[i])

xform\_img = xform['image']

xform\_keys = xform['keypoints']