Note: I am Using Scipy v1.1.0. In case of any errors you can install scipy 1.1.0 by the following command: pip install scipy==1.1.0

In [26]:
```
import scipy
scipy.__version__
```

Out[26]:
```
'1.1.0'
```

To download images Click on this url: https://drive.google.com/drive/folders/1pcaTwofZGfoCxZ3Hv2X6vW6xf_1i88eb?usp=sharing (https://drive.google.com/drive/folders/1pcaTwofZGfoCxZ3Hv2X6vW6xf_1i88eb?usp=sharing)

Import Libraries

In [27]:
```
from skimage import data
from scipy.misc import imread, imresize
import numpy as np
from scipy import ndimage
import matplotlib.pyplot as plt
```

Auto Contrast Transformation

Formula of Linear Point Transformation is: s =(L-1)(r-rmin)/(rmax-rmin)

Original Image

In [37]:
```
original_image =imread('salzburg_before.png',True, 'L')    #read image as grey scale image
```

```
C:\ProgramData\Anaconda3\lib\site-packages\ipykernel_launcher.py:1: DeprecationWarning: `imread` is deprecate
d!
`imread` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.
Use ``imageio.imread`` instead.
  """Entry point for launching an IPython kernel.
```

Processed Image

In [38]:
```
processed_image =original_image.copy()
```

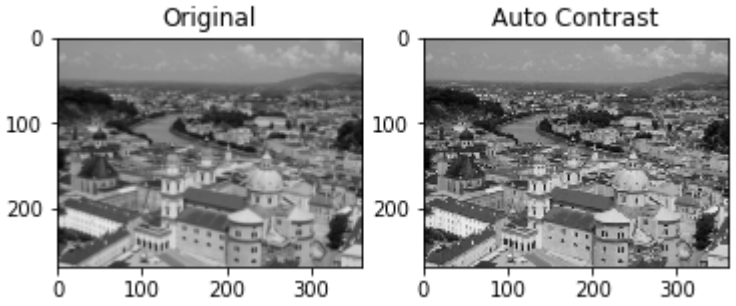
In [39]:
```
#s =(L-1)(r-rmin)/(rmax-rmin)
img=processed_image.copy()
rmin=np.amin(processed_image)
rmax=np.amax(processed_image)
processed_img=img.astype(np.uint8)
processed_img=(255)*(img-rmin)/(rmax-rmin)
```

In [40]:
```
#Normalizing Intensity Levels
processed_image[processed_image<0]=0
processed_image[processed_image>256]=256
```

In [41]:
```
fig, axes = plt.subplots(1, 2)
ax = axes.ravel()

ax[0].imshow(original_image,cmap=plt.cm.gray,interpolation='bilinear')
ax[0].set_title("Original")
ax[1].imshow(processed_img, cmap=plt.cm.gray,interpolation='bilinear')
ax[1].set_title("Auto Contrast")
plt.imshow(processed_image,cmap=plt.cm.gray)
```

Out[41]:
```
<matplotlib.image.AxesImage at 0x18260466ec8>
```



In [ ]:
```

```