Vili:
https://github.com/matplotlib/matplotlib/issues/13442
example is given showing the problem, also apparently `pcolormesh` does what the OP wants, so it is at least a starting point to see how `pcolormesh` works, and try to use that for `NonUniformImage`.

Winston, Vili on this issue
https://github.com/matplotlib/matplotlib/issues/9747
Also an example given showing the problem, also a solution is provided in discussion about setting matching fonts and it was closed, but then reopened to find better solution? Apparently, it gets properly centered with 1 line of text, but with 2 line some other stuff happens and it does not, so that is a starting point.

Chris, Faris, Harrison on this issue
https://github.com/matplotlib/matplotlib/issues/13440

y-axis/x-axis ticks don't have horizontal/vertical alignment (respectively)
- the documentation is wrong (so most likely we are implementing the actual feature)

difficult part: to align left, we need to know the longest y-label so we can arrange
all remaining labels with respect to that reference point.

correct api call:
```
for label in ax.yaxis.get_ticklabels():
        label.set_horizontalalignment('left')
```

Since we get a collection returned from the get_ticklabels(), maybe we can implement
an iterator that returns all tick labels AND the left most tick starting position?

Hack fix:
```
width = max(label.get_window_extent(fig.canvas.renderer).width for label in
ax.yaxis.get_ticklabels())
ax.yaxis.set_tick_params(pad=width+2)
```

Harrison:
https://github.com/matplotlib/matplotlib/issues/11418

- Hatches are invisible in the output of ax.fill_between when color is specified. They are present when color is absent or when facecolor is used

https://github.com/matplotlib/matplotlib/issues/5463

- Fig.colorbar messes up subplots centering

Faris:https://github.com/matplotlib/matplotlib/issues/9704
May involve working on a C++ extension