Who am I?

James A. Bednar, PhD.
University of Texas at Austin (2002)

Reader (Associate Professor)
University of Edinburgh (2003-2015)

Manager, Technical Services
Anaconda, Inc. (2015-)

Manager for OSS projects
GeoViews, EarthSim, EarthML, HoloViz, PyViz, HoloViews, Datashader, Colorcet, hvPlot, Panel, Param, etc.

ANACONDA.

Collaborators for Earth-science topics

NASA Goddard (Dan Duffy)

US Army Corps of Engineers (ERDC)

Pangeo (Columbia U., NCAR/UCAR, etc.)

USGS (Rich Signell)

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Annotating ML data with Bokeh and HoloViews

- A variety of special-purpose tools like labelImg are available for annotating/tagging/labeling data for machine-learning pipelines.
  If those work well for your project, great!

- What if you need something more customized to your workflow?
  Do you have to build a new tool from scratch?

- Not if you use Python, where you can now easily build custom apps based on Bokeh's drawing tools to collect user input.

- Here, we'll look at a Jupyter notebook that shows how to build such apps using the high-level holoviews/geoviews interfaces that can make full-featured custom applications in just a few lines of Python code.

Viewing and running the example notebook

View the notebook:

1. Visit ml_annotators on examples.pyviz.org

(This is a static website without Python running, so you can see the code and previous output but not all live code will work)

Run a read-only cloud-hosted notebook:

1. Visit ml_annotators on examples.pyviz.org
2. Click on "View a running version of this notebook"
3. Click on **Kernel/Restart & Run All**

Run and edit on your own machine:

1. Install **conda.io/miniconda.html** (for mac/win/linux)
2. Download and unpack ml_annotators.zip
3. `cd ml_annotators`
4. `conda install anaconda-project`
5. `anaconda-project run notebook`

6. Click on **Kernel/Restart & Run All**