Plot Bandwidths

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In [42]: %matplotlib inline
         %config InlineBackend.figure_format='retina'
         import pandas as pd
         import numpy as np
         import mgwr
         import pickle
         import matplotlib.pyplot as plt
         from io import StringIO
In [83]: filename = '../bws_global_start.csv'
         def plotBws(filename, title):
             with open(filename, 'r') as inf:
                 lines = inf.readlines()
                 soclines = [i.replace('Current iteration: ', '').replace('SOC: ', '') for i is
                 bwlines = [i.replace('Bandwidths: ', '') for i in lines[1::2]]
                 soc = pd.read_csv(StringIO('\n'.join(soclines)), header=None)
                 bw = pd.read_csv(StringIO('\n'.join(bwlines)), header=None)
                 soc.columns = ['Iteration', 'SOC']
                 bw.columns = [
                     'const',
              'avg_commute_km',
              # Alternate specification of commute distance
              #'pct_commute_less2km', 'pct_commute_2_10km', 'pct_commute_10_20km',
              'pctbachdeg',
              'pctnovehicle',
               # the original paper had the low-income cutoff at 20k but that's just really lo
              'income0_35k',
              'income35_50k',
               #'income50_100k', # removed due to multicollinearity
              'pcthhkids',
              'pct_w_cbd', # NB high correlation with bachelor's degree
              'pctmultifamily',
              'pctrent',
              'luentropy',
              'access60', # lower cutoff metric might be preferable, access30 and access45 are
```