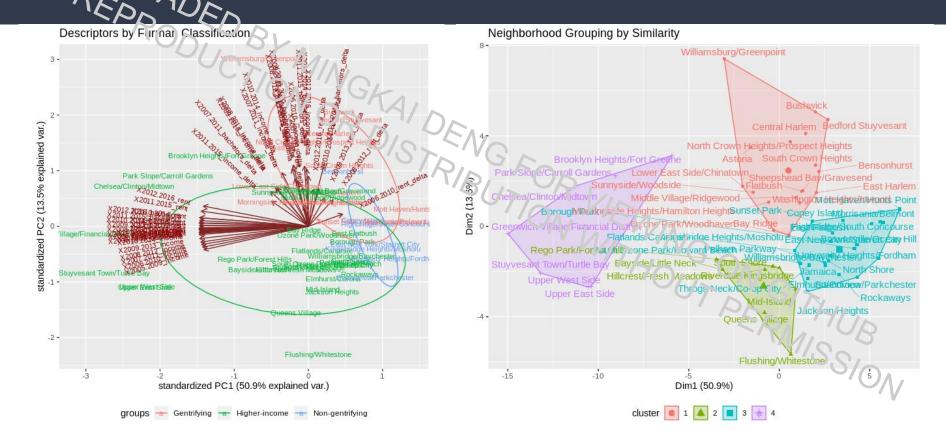
## Hudson Analytica - Key Insights

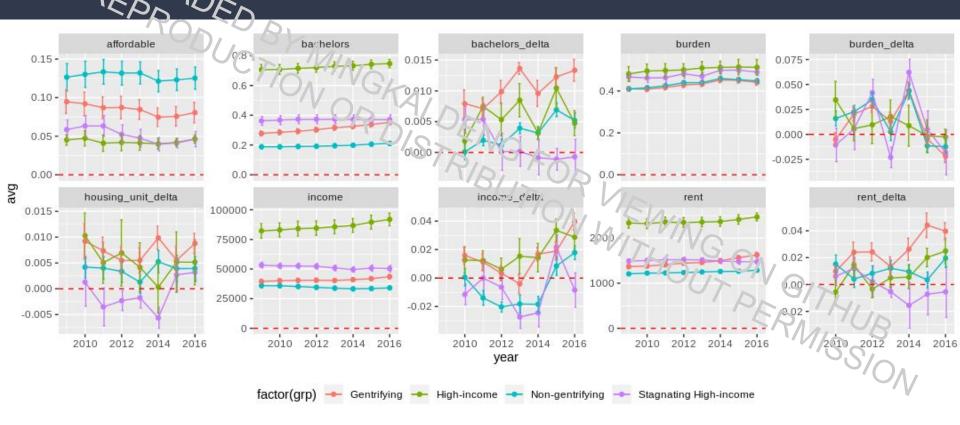
- 1. Data-based, granular definition of gentrification
- 2. Time-referenced description of gentrification process
- 3. Leading indicator of gentrification from external dataset:

  Business license approval share
- 4. Prediction of possible neighborhoods for next step of gentrification

#### Aranular Classification Based on Income, Education and Rent



### Comparison of each type of neighborhood



#### Regression on key features

- Dummy variables on time and boroughs (controlled for year and region fixed effects)
- Variable "Percent" (significant at 0.01):
   Neighborhood's approved business
   licenses as share of all new licenses in the calendar year
- Interpretation: A neighborhood's new businesses share is a useful indicator of whether the region is undergoing the gentrification process

gentrification	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
porulation	.2470752	.161048	1.53	0.128	0721836	.5663341
single_persor~s	.0802513	.0467509	1.72	0.089	012427	.1729295
labor_force_p~e	021793	.0390857	-0.56	0.578	0992759	.0556898
percent_white	1247843	.1722805	-0.72	0.472	4658108	.2172411
percent_black	.7.905269	. 1739065	-1.06	0.289	5451881	.1641344
percent_asian	. 2512056	.1326889	1.90	0.060	0106472	.5130543
higher_cost_h~s	0140052	0256777	-1 F8	0.500	0549964	.0269859
mean_commute_~e	0448522	.0427506	1.05	0.257	1296597	.0399553
percent	.0716388	.0266011	7.69	0.003	.0189051	.1243724

R-squared = 6.9412 Adj R-squared = 6.9154 Root MSE = 14:3

# Prediction of future gentrification

- Based on our previous factor analysis, we look at business approval shares in neighborhoods which our cluster analysis identify as non-gentrifying
- Prediction of likelihood of gentrifying:
  - 1: Flatlands/Canarsie
  - 2: East Flatbush
  - 3: Borough Park
  - 4: Elmhurst/Corona
  - 5: Jackson Heights

