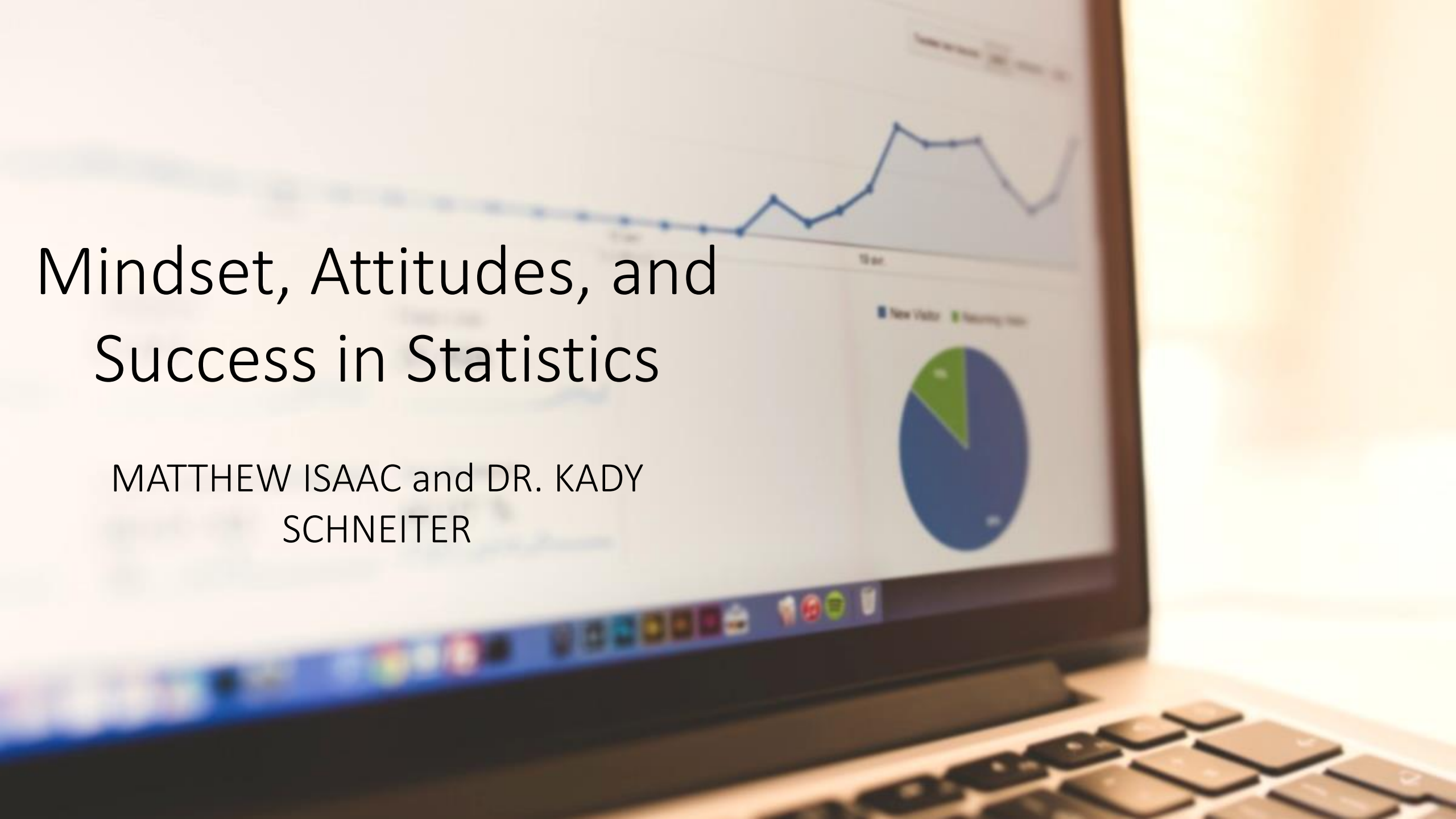


Mindset, Attitudes, and Success in Statistics

MATTHEW ISAAC and DR. KADY SCHNEITER

Image Source: www.prometheusresearch.com

MINDSET (Fixed or Growth)

- General Mindset
- Statistical Mindset

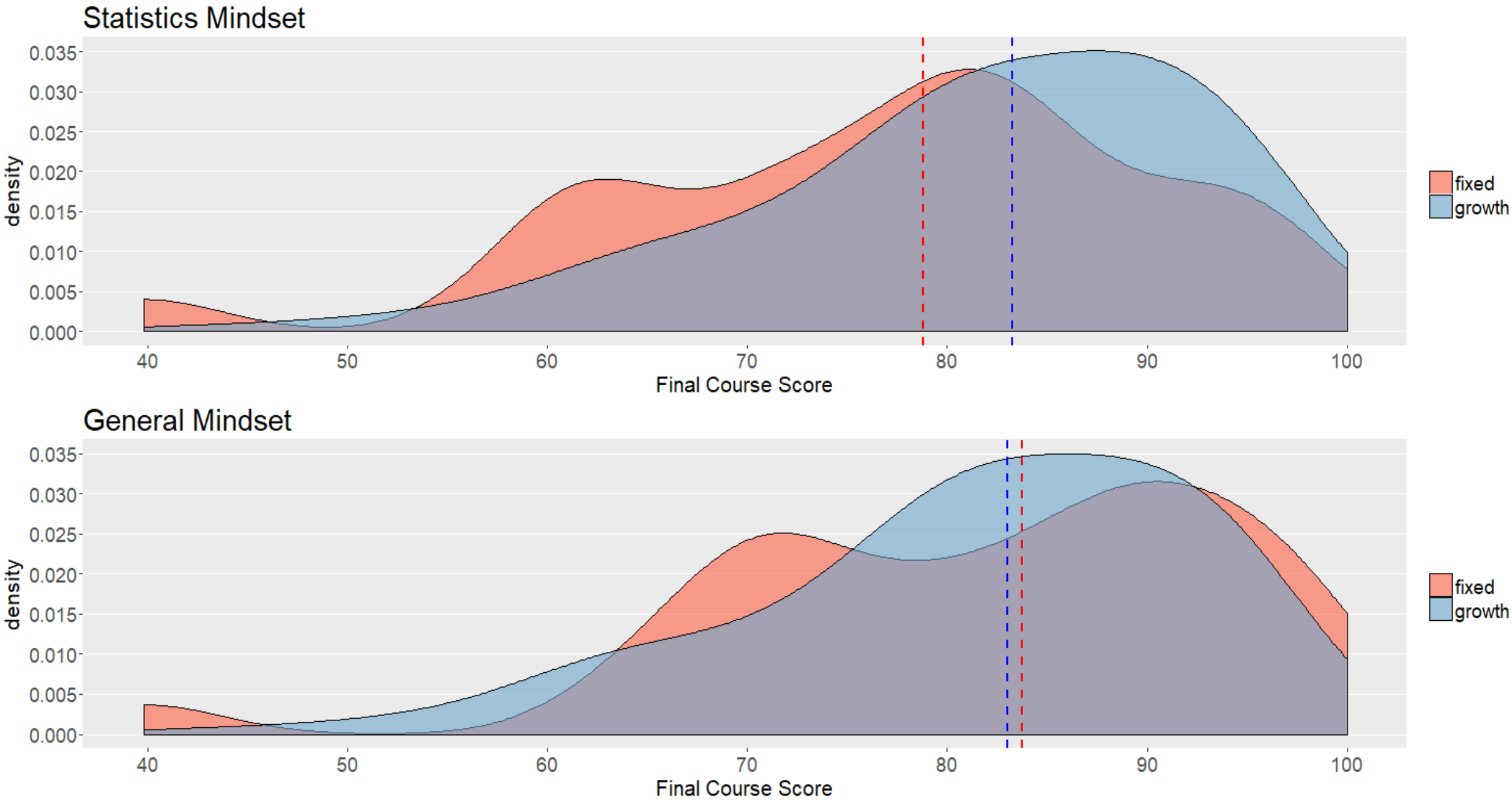
ATTITUDES (Positive or Negative)

- Enjoyment/Comfort with statistics
- Perception of Utility

Mindset Results:

95% growth mindset (statistical and general)

Statistically **significant difference in course score** between growth and fixed mindset groups

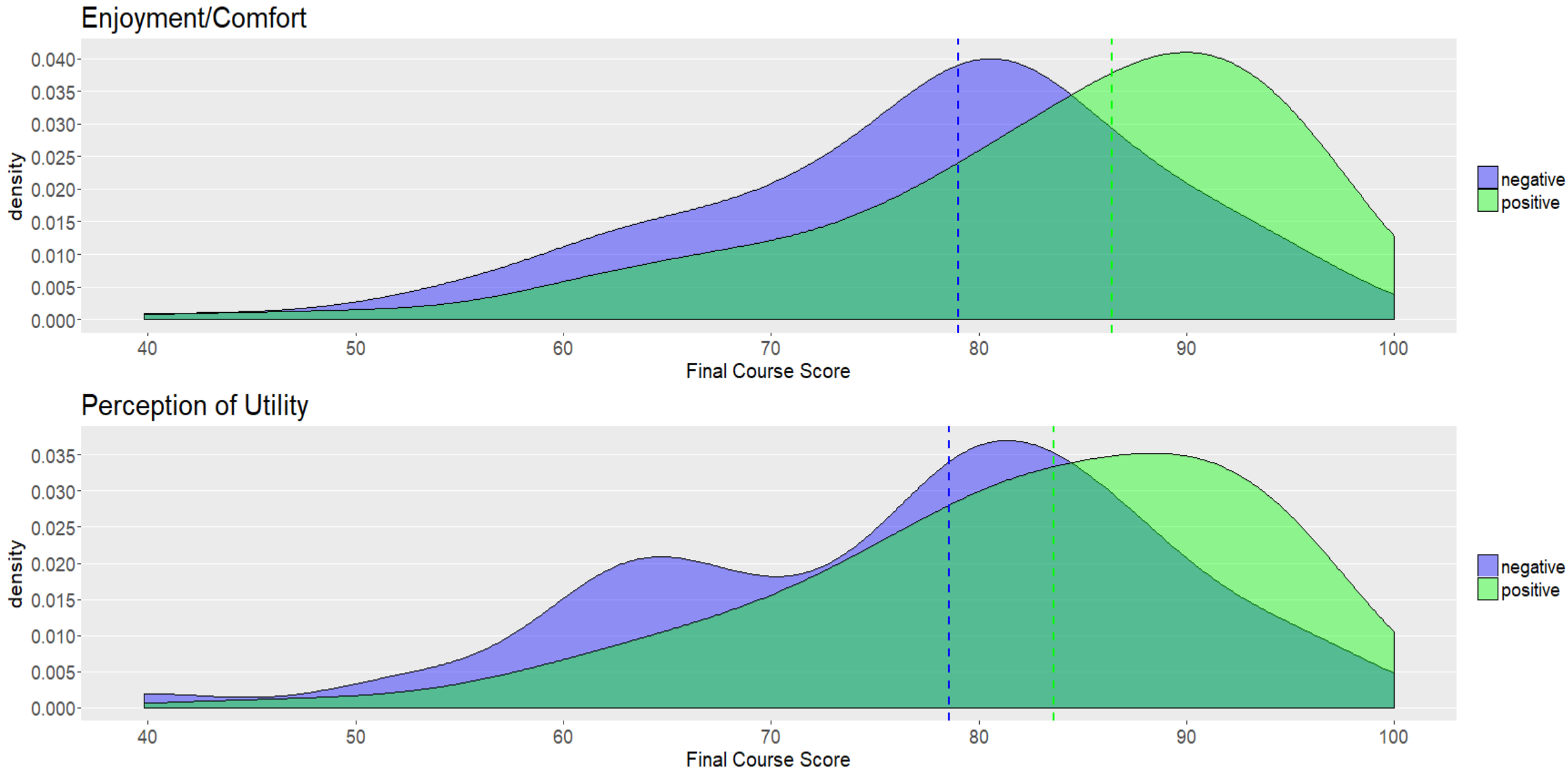

Statistics Mindset
density
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
50
60
70
80
90
100
Final Course Score
fixed
growth
General Mindset
density
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
50
60
70
80
90
100
Final Course Score
fixed
growth

Attitude Results:

About **64% positive** attitudes (enjoyment/comfort)

About **84% positive** attitudes (utility)

Statistically **significant difference in course score** between different levels of attitude


Enjoyment/Comfort
density
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
50
60
70
80
90
100
Final Course Score
negative
positive
Perception of Utility
density
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
50
60
70
80
90
100
Final Course Score
negative
positive

Key Results and Next Steps

1. Large proportion of growth mindsets
2. Did not observe a strong association between growth and academic achievement

3. More positive attitudes surrounding statistics than expected
4. Positive attitudes associated with better performance in course