

# Stat 201: Statistics I

## StatCrunch: Chapter 11



# Chapter 11

## Goodness-of-Fit and Contingency Tables

# Section 11.1

## Goodness-of-Fit

# Goodness-of-fit tests in StatCrunch

- Stat → Goodness-of-fit → Chi-Square Test
- Select column that contains observed data
- Specify expected distribution:
  - For uniform distributions, select “All cells in equal proportion”
  - For non-uniform distributions, select the column which contains expected frequencies
- Leave default value of “Expected” for display
- Click “Compute!”
- The test statistic and p-value are found in “Chi-Square” and “P-value”

## Section 11.2

# Contingency Tables

# Tests for independence in StatCrunch

- Stat → Tables → Contingency → With Summary
- Select the columns that contain observed data
- Select the column that contains row labels
- If desired, select calculated values to be displayed (“Expected count” can be useful)
- Leave “Hypothesis tests” on default value of “Chi-Square test for independence”
- Click “Compute!”
- In the “Chi-Square test” table, the test statistic and p-value are found in “Value” and “P-value”