#### Inferential Statistics

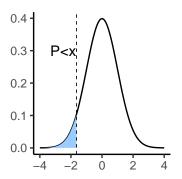
Pablo E. Gutierrez-Fonseca

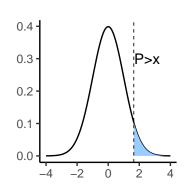
Fall 2024



# Expanding on Hypothesis Testing

- 1-tailed
  - Hypothesis includes an expected direction.





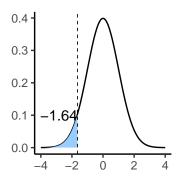
- Decrease
- Cooler Smaller

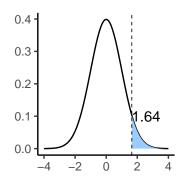
Increase Warmer Higher Expand



## Expanding on Hypothesis Testing

• 1-tailed - hypothesis includes an expected direction





• If your obtained test statistic falls beyond the critical value (lightblue) for your given Alpha threshold = Significant result, **reject the nut** University of Vermont

## Expanding on Hypothesis Testing

#### • 2-tailed tests:

- Have no expected directionality hypothesized.
- ▶ Splits the 5% of the area under the curve that would be considered significant between both tails of the normal distribution curve.
- ▶ Are therefore less powerful tests (more likely to find a significant result).

