



01

Background

02

Methods

03

Results

04

01

Background

02

Methods

03

Results

04



#### 

- Taylor Swift began releasing songs **in 2006** on her self-titled album, Taylor Swift.
- As of 2022, she was the first artist to win four Album of the Year **Grammy awards**.
- Her 12<sup>th</sup> album, The Life of a Showgirl, was released on **October 3, 2025**.



#### KELCE

- Taylor Swift began **dating** Travis Kelce, a tight end for the Kansas City Chiefs, in 2023.
- Travis and his brother Jason, a retired center for the Philadelphia Eagles, began hosting their sports podcast, New Heights, in 2022.
- To promote her upcoming album, Taylor appeared on New Heights in August 2025.

## Can I ask you a question?

- 1. How did Taylor's appearance affect the appearance affect the podcast popularity?
  - 2. How did Taylor's appearance affect the appearance affect the album popularity?

01

Background

02

Methods

03

Results

04



# EADE INTO

- We measure popularity with Google
  Trend scores, which are standardized
  and max out at 100.
- Daily searches of keywords "new heights" and "showgirl" in the United States were tracked for two months before and after Taylor's podcast appearance.



#### TIVE LABSE

- An interrupted time series (ITS) model is used to examine the impact of Taylor's
  New Heights episode (the interruption) on album and podcast search trends.
- The model quantifies the altered
  trajectories of the Google searches
  after vs. before the Taylor episode.
- **Newey-West** standard errors were used to generate 95% confidence intervals.



#### MEANING

- To address whether the search trends change immediately following the Taylor episode, we look at  $\widehat{\beta}_2$
- To address how quickly the search trends return to pre-Taylor levels (if ever), we look at  $\widehat{\beta}_3$ .

the Taylor jump

 $\widehat{\text{Trend}} = \widehat{\beta_0} + \widehat{\beta_1}(\text{Days}) + \widehat{\beta_2}(\text{After?}) + \widehat{\beta_3}(\text{Days} \times \text{After?})$ 

pre-Taylor trend pattern adjustment to pre-Taylor trend pattern

Slide 6 of 10

01

Background

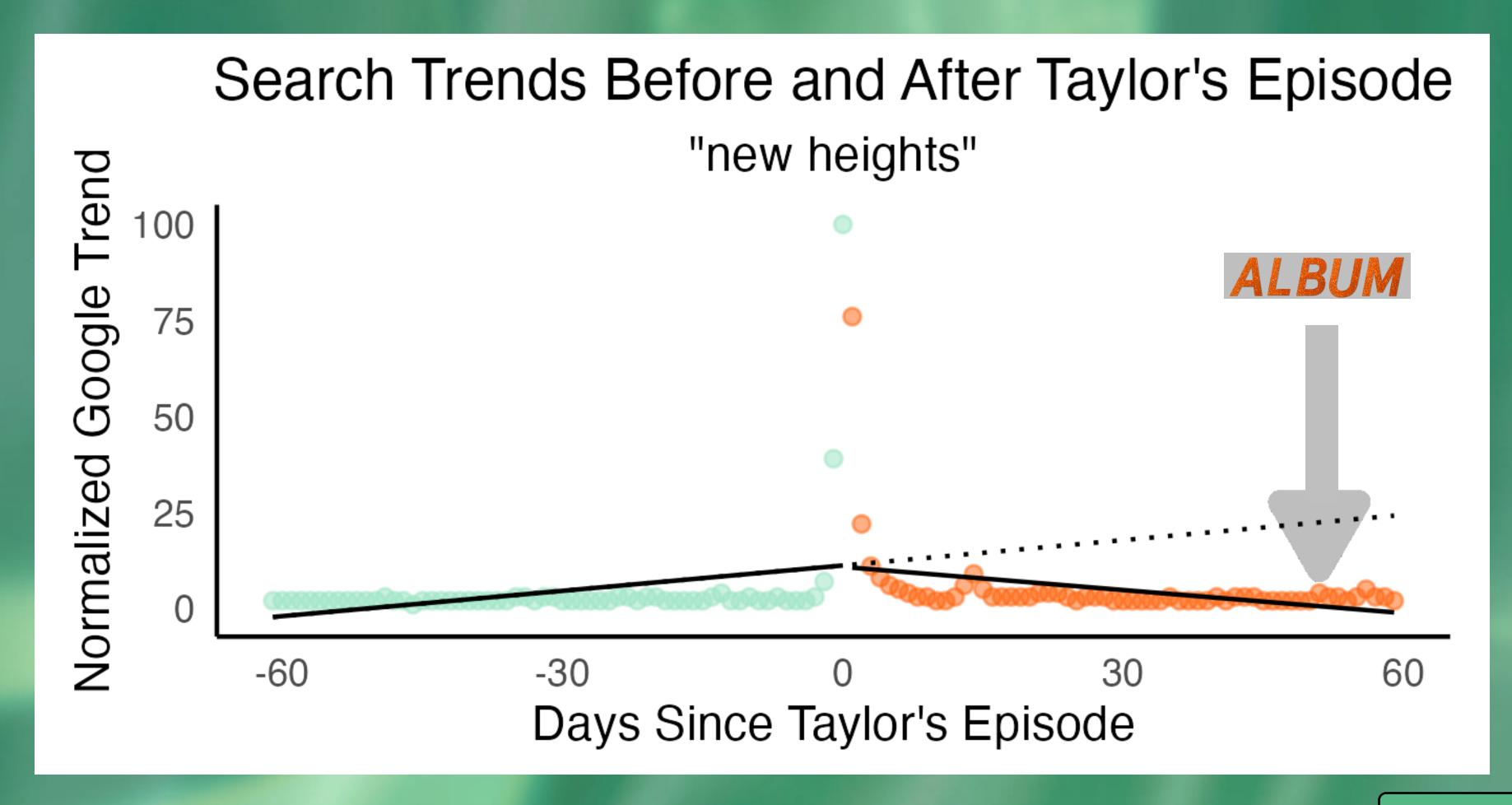
02

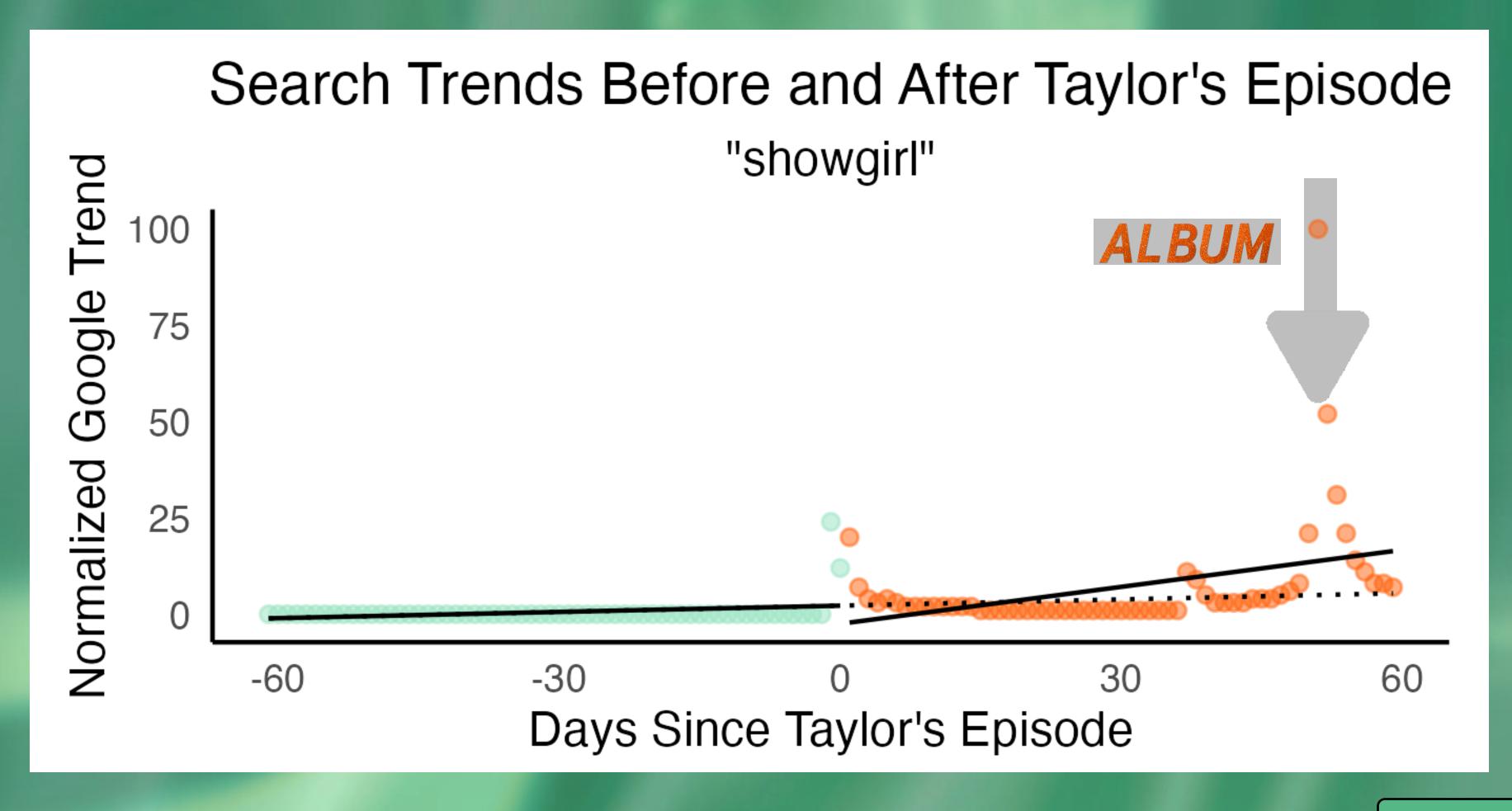
Methods

03

Results

04





#### NONE OF IT WAS ACCIDENTAL

	"new heights"	"showgirl"
Coefficient	Estimate 95% CI	Estimate 95% CI
Baseline Trend	11.192 (-113.950, 136.334)	2.230 (-6.440, 10.901)
Trend Pattern	0.220 (0.150, 0.290)	0.054 (0.049, 0.059)
Taylor Jump	-0.376 (-34.965, 34.213)	-4.706 (-42.314, 32.901)
Adjustment to Trend Pattern	-0.421 (-0.659, -0.192)	0.266 (0.139, 0.393)

#### NOTE OF IT WAS ACCIDENTAL

#### some

	"new heights"	"showgirl"
Coefficient	Estimate 95% CI	Estimate 95% CI
Baseline Trend	11.192 (-113.950, 136.334)	2.230 (-6.440, 10.901)
Trend Pattern	0.220 (0.150, 0.290)	0.054 (0.049, 0.059)
Taylor Jump	-0.376 (-34.965, 34.213)	-4.706 (-42.314, 32.901)
Adjustment to Trend Pattern	-0.421 (-0.659, -0.192)	0.266 (0.139, 0.393)

01

Background

02

Methods

03

Results

04



#### REVIEWSER

- We observe increasing trend scores in the two months before Taylor's episode in Google searches for both the podcast and for the album.
- We observe decreasing trend scores after the episode for podcast searches, but trend scores increase faster after the episode for album searches.
- Taylor Swift is a woman of INFLUENCE.

#### RECEDES

- 1. Bailey, Alyssa. "Taylor Swift and Travis Kelce's Complete Relationship Timeline." *ELLE*, 23 Oct. 2023, www.elle.com/culture/celebrities/a45378530/taylor-swift-travis-kelce-relationship-timeline/.
- 2. Lopez Bernal, James, et al. "Interrupted Time Series Regression for the Evaluation of Public Health Interventions: A Tutorial." *International Journal of Epidemiology*, vol. 46, no. 1, 9 June 2016, p. dyw098, academic.oup.com/ije/article/46/1/348/2622842, https://doi.org/10.1093/ije/dyw098.
- 3. Molina-Whyte, Lidia, and Tilly Pearce. "Taylor Swift Albums in Order Taylor's Versions and First Albums." *Radio Times*, www.radiotimes.com/audio/taylor-swift-albums-in-order/.
- 4. Ray, Michael. "Taylor Swift | Biography, Songs, & Facts." *Encyclopedia Britannica*, 9 Dec. 2018, www.britannica.com/biography/Taylor-Swift.



ashley.e.mullan@vanderbilt.edu



ashleymullan.github.io

Don't forget, don't forget about me!