

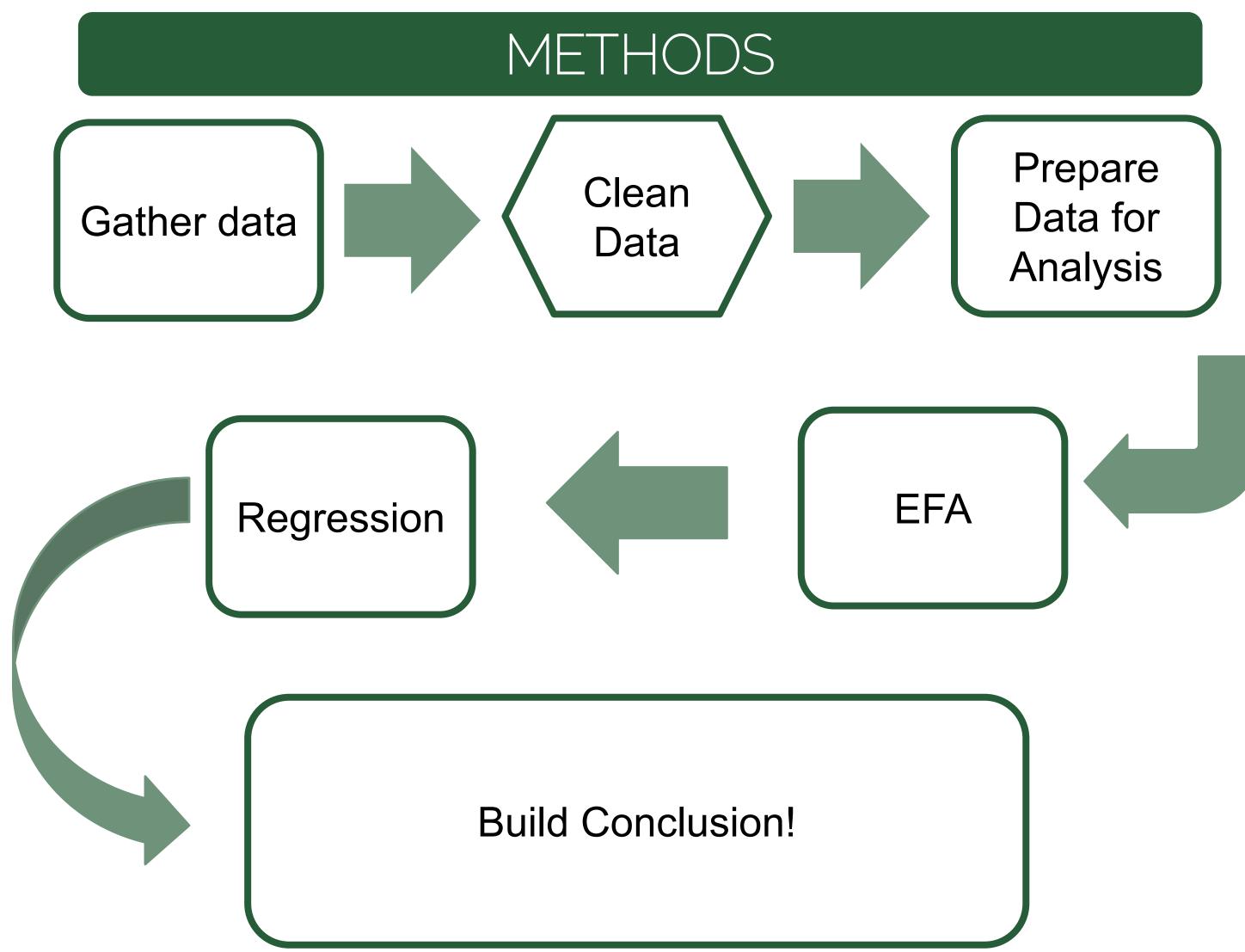
INTRODUCTION

In 2019, researchers at Utah Valley University (UVU) interviewed 60 female students to discover their individual educational experiences and identities. Unlike universities across the nation, UVU has far more male students graduating than female students. The initial research was "to study female students' premature exit from Utah Valley University by examining UVU female students' intersections of identity, specifically how the lived realities of this population influence feelings and experiences of inclusion, success, motivation, and support within the broader context of UVU." [1]

In the interviews many of the respondents expressed the need for a college degree as a "backup plan" or "safety net" should an unforeseen circumstance arises in the future. As one respondent stated in their interview,

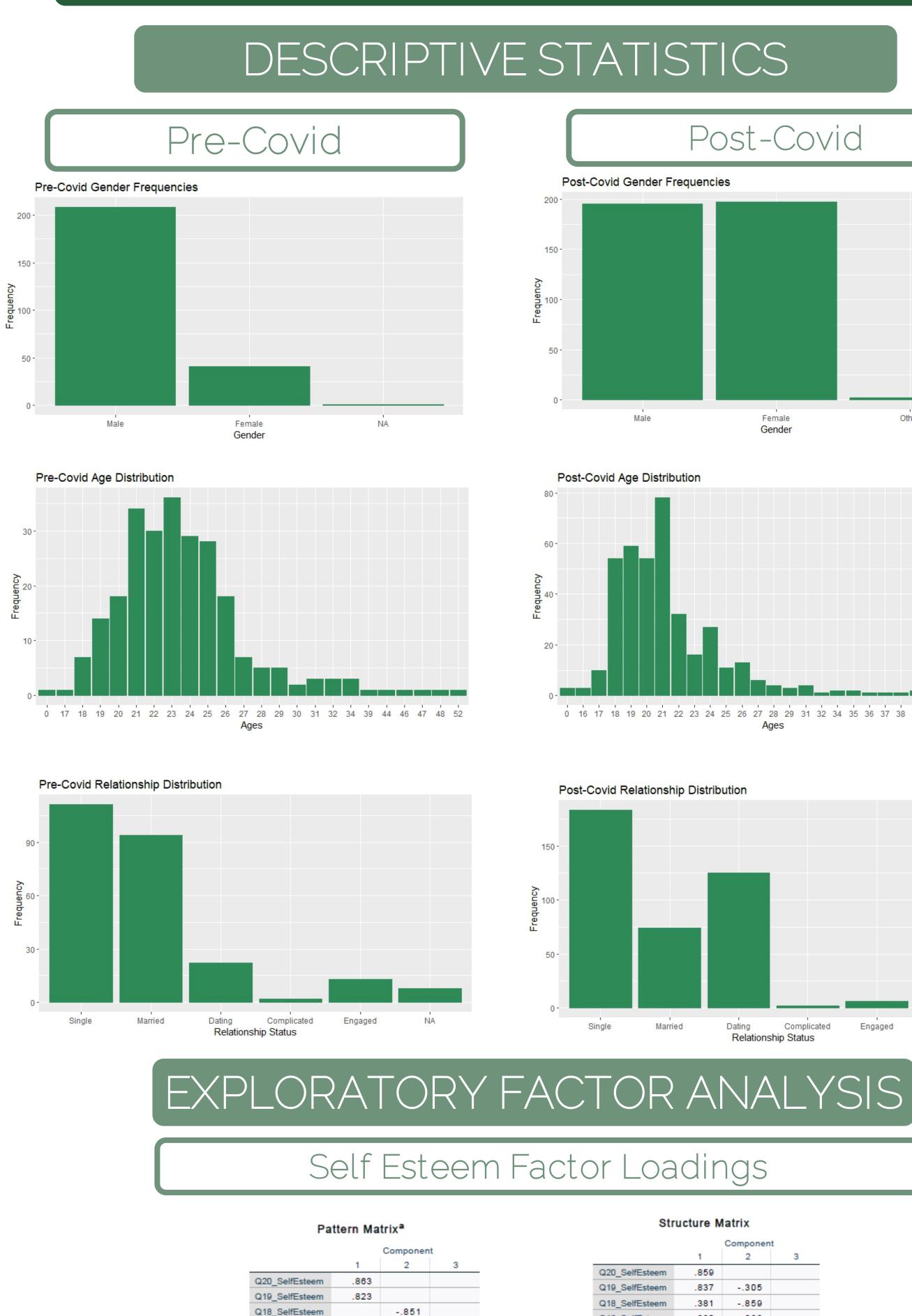
"I think the conversation in Utah is that a woman's education is optional and is not as required because you're not going to be the breadwinner." [2]

To try to quantify the experiences found in the interview round, researchers created a Qualtrics survey to analyze the relationship between students' self-esteem, spirituality, and loneliness; however, due to the COVID-19 pandemic the survey responses were not analyzed, and conclusions were not made. The aim of this project is to analyze approximately 250 responses gathered in the Fall of 2019 and compare them to approximately 400 responses in the Spring of 2023 (as a post-COVID comparison).



Understanding UVU Students' Experiences Jackson Phippen, Dr. Stevie Munz Social Impact Metrics Lab Utah Valley University

RESULTS/DISCUSSION



16 SelfEsteem

26 SelfEsteem 25_SelfEsteem

24 SelfEsteem

23 SelfEsteem

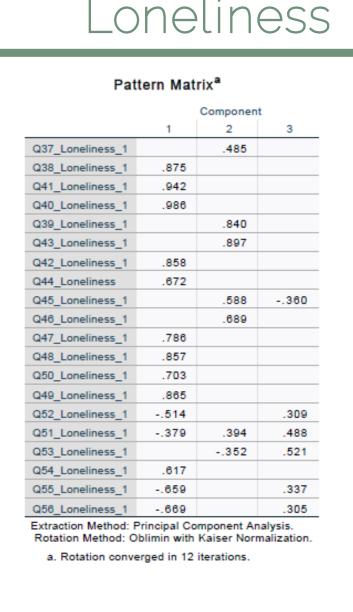
lormalization

extraction Method: Principal Component Analysis

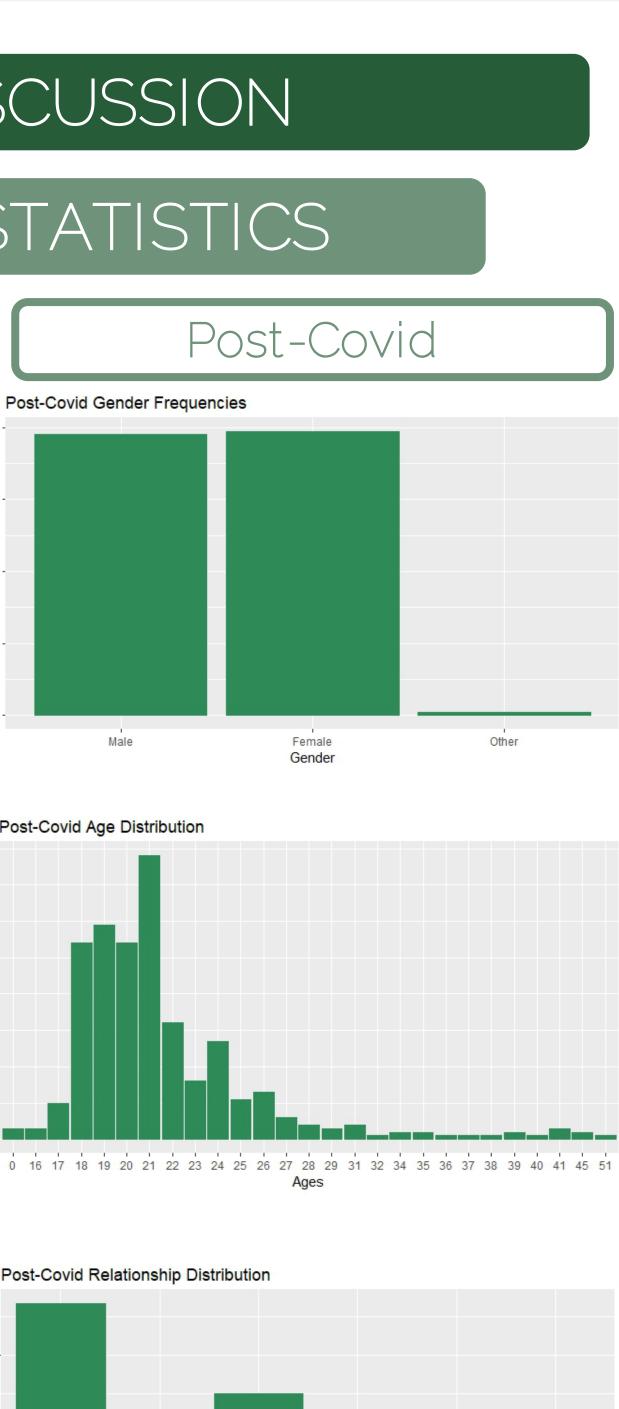
Rotation Method: Oblimin with Kaise

a. Rotation converged in 12 iterations

7_SelfEsteem 7 SelfEsteem







Structure Matrix 2 SelfEsteem 4 SelfEsteem SelfEsteen xtraction Method: Principal Component Analysis Rotation Method: Oblimin with Kaise

Loneliness Factor Loadings Structure Matrix

	1	2	3
37_Loneliness_1	619	.677	
38_Loneliness_1	.824	507	
41_Loneliness_1	.881	536	
40_Loneliness_1	.887	507	
39_Loneliness_1	516	.812	
43_Loneliness_1	507	.838	
42_Loneliness_1	.872	589	
44_Loneliness	.772	594	
45_Loneliness_1	550	.687	354
46_Loneliness_1	652	.819	
47_Loneliness_1	.815	562	
48_Loneliness_1	.828	522	
50_Loneliness_1	.782	591	
49_Loneliness_1	.896	621	
52_Loneliness_1	653	.560	.307
51_Loneliness_1	637	.653	.490
53_Loneliness_1	.533	541	.519
54_Loneliness_1	.759	624	
55_Loneliness_1	797	.655	.333
56_Loneliness_1	812	.669	.301
traction Method: F	Principal Co	mponent Ar	nalysis.

Rotation Method: Oblimin with Kaiser Normalization

As of today, we have yet to find a regression model that best fits our data as we are experiencing a collinearity issue. We think that there is too much correlation between our predictors and response variable. Contrary to common statistics, we have tried fitting different models where different factors are the response variable.

In each model, we have noticed that our factors are significant in terms of predicting the response variable, and demonstrate relationship between, but the R^2 , value we are observing close to zero, implying that each model does not explain the variability in the response variable. This result could be because of the high variability in our issue.

Ultimately, we have found that our scales do "hang together" and explain the variability of our issue. This was surprising because often EFA requires several iterations to develop factors that can be used for Regression. Our factor were developed without any data pruning, indicating that the scales and questions we have explain the issues we're analyzing.

The issue we are facing is that all our regression models seem to have significant predictors, but have low R^2 values, indicating that our factors have real relationships, but do not explain the variability of the data. This could be because the issue we are trying to explain is highly variable: young adults between 18-25 have changing views on their self esteem, spirituality, and their levels of loneliness.

Next steps for our research include a final paper write up, analyzing data further to explain regression (and see the same result occurs the pre-covid only data).

- Grant Application, awarded 2018.
- 2. Participant Interview



Thank you to Stevie Munz for being an extremely patient research advisor and thank you to Utah Valley University's Center for Social Impact for the opportunity to do research!



Spirituality Factor Loadings Component Matrix^a 21 Spirituality

REGRESSION

CONCLUSIONS

REFERENCES

1. Pauly, J. & Munz, S. "UVU Student Experiences," SEED

ACKNOWLEDGEMENTS