Background

- Attitudes are a multi-dimensional construct defined as positive or negative judgments about an object (Thurstone 1928).
- Environmental attitudes are important because they affect quality of life and the likelihood of an \bullet individual to support sustainable planning decisions (Bonaiuto et al. 2002).
- Deserts cover one fifth of the globe's surface, but the individual and social importance of desert environments are disproportionally researched when compared to forest or greenspace.

Research Questions

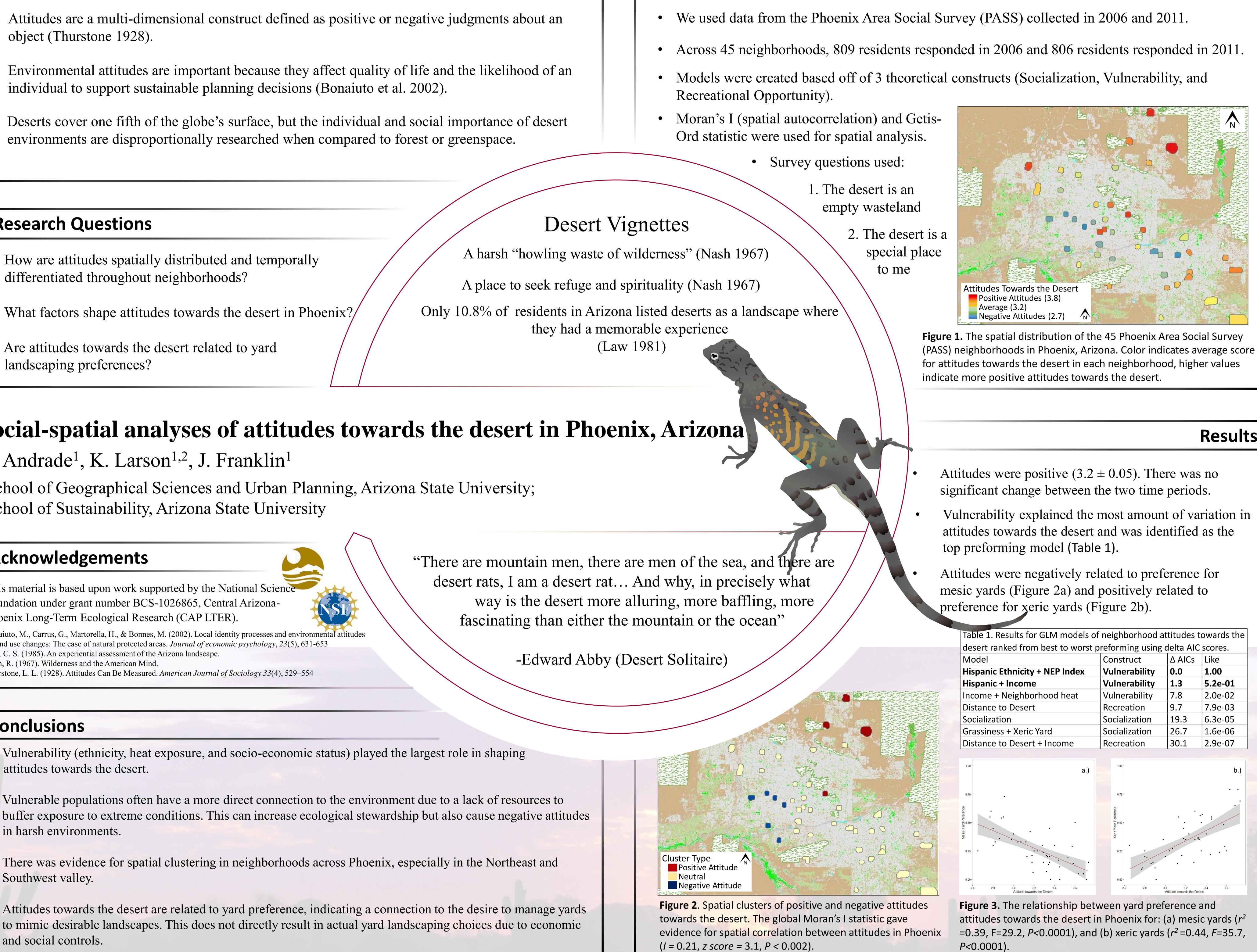
- 1. How are attitudes spatially distributed and temporally differentiated throughout neighborhoods?
- 2. What factors shape attitudes towards the desert in Phoenix?/
- 3. Are attitudes towards the desert related to yard landscaping preferences?

Social-spatial analyses of attitudes towards the desert in Phoenix, Arizona

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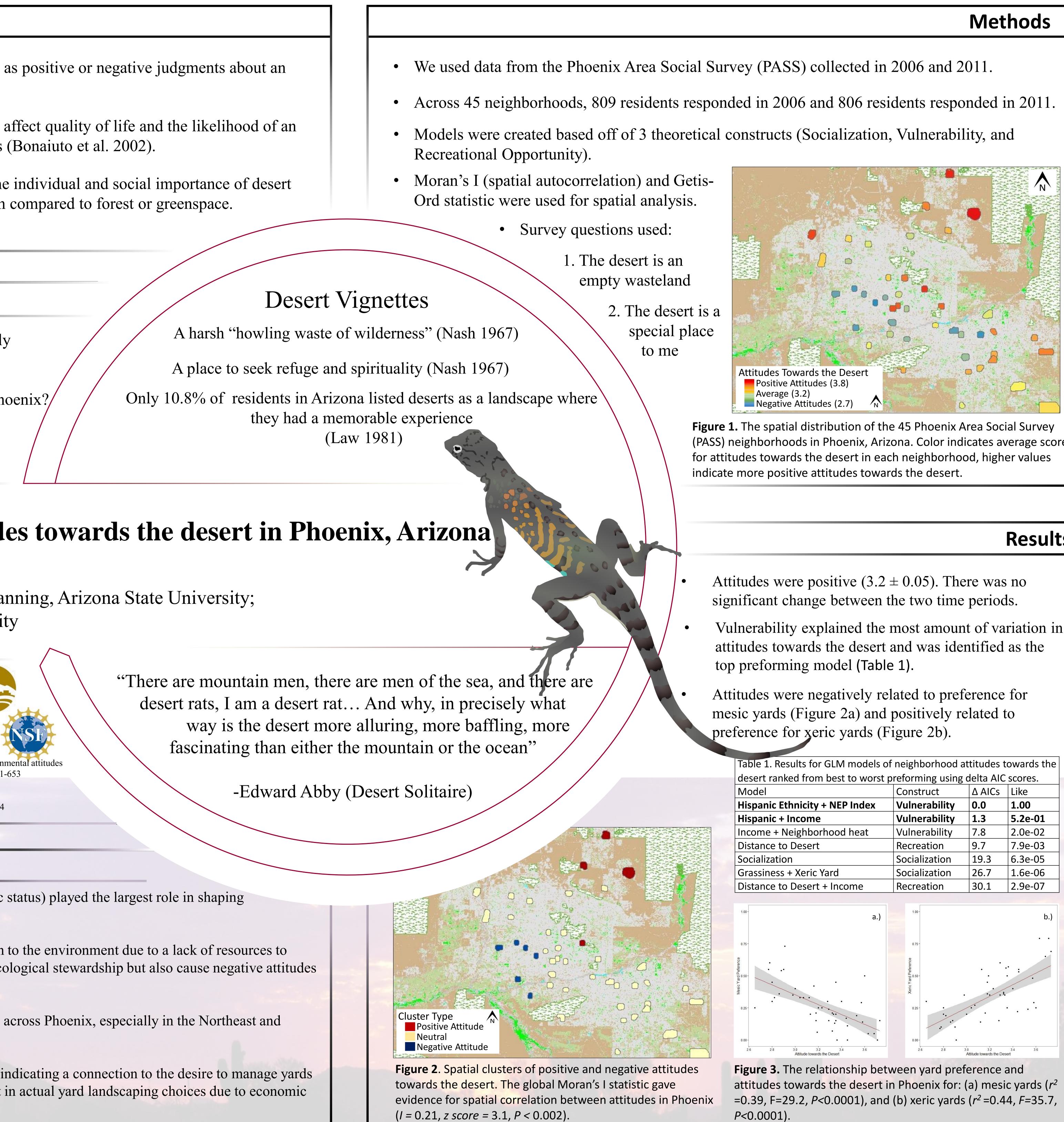


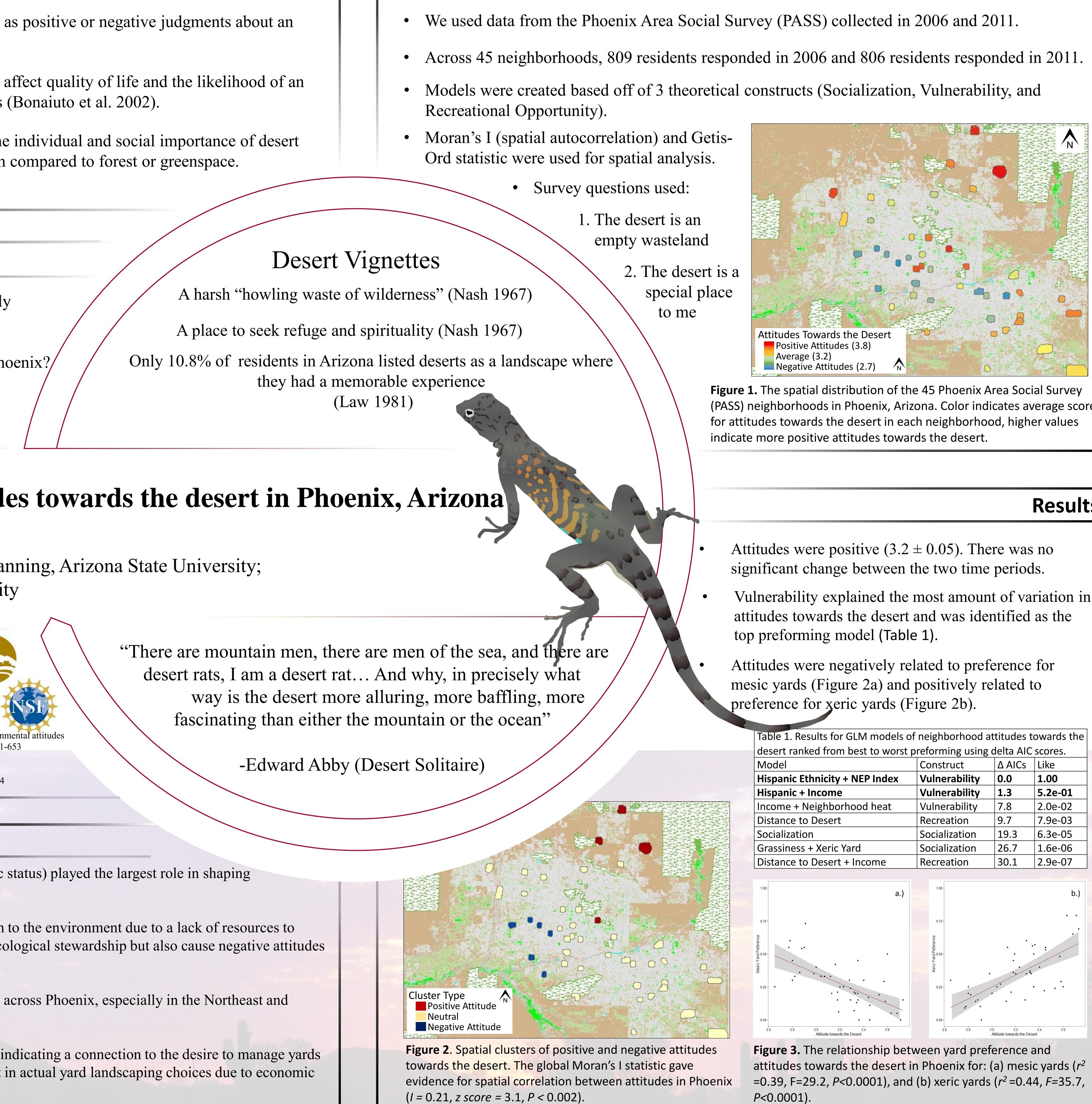
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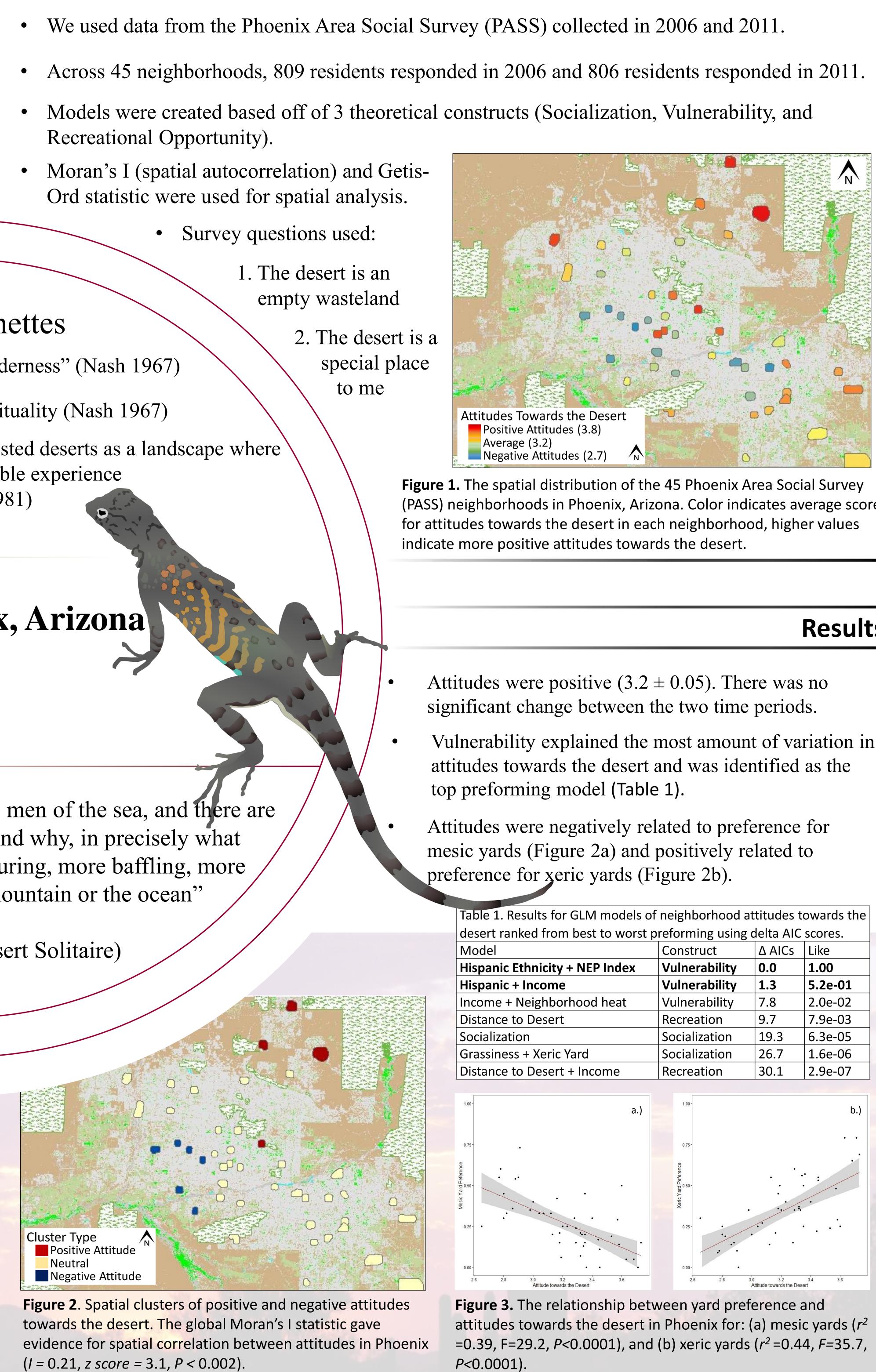
Bonaiuto, M., Carrus, G., Martorella, H., & Bonnes, M. (2002). Local identity processes and environmental attitudes in land use changes: The case of natural protected areas. *Journal of economic psychology*, 23(5), 631-653 Law, C. S. (1985). An experiential assessment of the Arizona landscape. Nash, R. (1967). Wilderness and the American Mind. Thurstone, L. L. (1928). Attitudes Can Be Measured. American Journal of Sociology 33(4), 529–554

Conclusions

- Vulnerability (ethnicity, heat exposure, and socio-economic status) played the largest role in shaping attitudes towards the desert.
- Vulnerable populations often have a more direct connection to the environment due to a lack of resources to in harsh environments.
- There was evidence for spatial clustering in neighborhoods across Phoenix, especially in the Northeast and Southwest valley.
- Attitudes towards the desert are related to yard preference, indicating a connection to the desire to manage yards to mimic desirable landscapes. This does not directly result in actual yard landscaping choices due to economic and social controls.







Results

GLM models of neighborhood attitudes towards the			
best to worst preforming using delta AIC scores.			
	Construct	Δ AICs	Like
- NEP Index	Vulnerability	0.0	1.00
	Vulnerability	1.3	5.2e-01
hood heat	Vulnerability	7.8	2.0e-02
	Recreation	9.7	7.9e-03
	Socialization	19.3	6.3e-05
ard	Socialization	26.7	1.6e-06
+ Income	Recreation	30.1	2.9e-07