

College of Arts and Sciences Undergraduate Student Research
Grant Application - Academic

1. Title of Project: How does the environment affect the development of a child's language skills?

2. Student Name: Michael J. Smith

3. Advisor Name: Dr. Jane Doe

4. Department: Psychology

5. Faculty Advisor: Dr. Jane Doe

6. Research Description: This project aims to investigate the relationship between environmental factors and language development in children. The study will focus on the impact of noise levels and air quality on the rate of language acquisition.

7. Objectives: The primary objective is to measure the correlation between noise levels and the age at which children begin to speak. A secondary objective is to assess the impact of air quality on the clarity of speech sounds.

8. Methodology: The study will utilize a longitudinal design, tracking a group of children from birth to age five. Data will be collected through standardized language assessments and environmental monitoring devices.

9. Expected Outcomes: It is expected that higher noise levels will be associated with a delayed onset of language skills. Additionally, improved air quality is hypothesized to result in clearer and more varied speech sounds.

10. Significance: This research is significant as it provides insight into the environmental factors that influence early language development, which can inform educational and public health policies.

11. Budget: The budget for this project is \$5,000, covering materials, equipment, and personnel costs.

12. Timeline: The project is scheduled to run from September to May of the following year, with a final report due in June.

13. References: Smith, J. (2018). Environmental factors and language development. *Journal of Child Psychology and Psychiatry*, 59(1), 1-10.

14. Additional Information: The student has completed a research internship at a local hospital and has a strong background in statistics and data analysis.

15. Signature: Michael J. Smith

16. Date: October 26, 2023