**ANALYSIS OF IMPACT OF HUMAN ACTIVITIES ON THE RIPARIAN ZONE OF ONA RIVER BASIN, IBADAN, OYO STATE.**

**BY**

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**CERTIFICATION**

This project has been read and approved as meeting the requirements for the award of Master of Science (MSc) degree in Geographic Information System (GIS) in the Department of Geography, Faculty of Social Science University of Ibadan,

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**DEDICATION**

This project is dedicated to **God**

and my loving parents Mr.Bamidele Sajiyan & Mrs. Bamidele Feyisayo

Whose *efforts* and *sacrifices* have made my dream of having this degree a reality.

Words cannot adequately express my deep gratitude to you. I pray you will live long to reap the fruits of your Labour.

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**ABSTRACT**

Human activities such as farming, urban development, and expansion of paved surfaces are the major threats to riparian zones especially in the developing countries; little attention is given to the numerous ecosystem services offered by the riparian zone in these countries.

The riparian zone of the Ona drainage basin in Ibadan is no exception, as years of Human encroachment and degradation of the zone has left it begging for attention in terms of restoration and conservation. Geographic Information System (GIS) and Remote sensing techniques were employed in this study to analyze the spatial and temporal changes in the landscape of the riparian zone and to also determine the contribution of specific human activities to these changes. The riparian zone in the Ona drainage basin was delineated by overlaying, buffered stream order of the basin on the slope of the basin generated from its digital elevation model, the result of this was also overlaid on the land use/ land cover images of three time period of the basin for analyze of spatial temporal changes and also to examine the extent of human impact.

Results from the study indicated that farming and open surfaces are the human activities that have largely contributed to changes within the riparian zone.