



Lina Dimitrov

McGowan Award
Ph.D. Student, Epidemiology
First Year ARCS Scholar



EMORY UNIVERSITY

How does the environment we live in affect our risk for Alzheimer's disease? Understanding the neighborhood exposome

The research focuses on how the environmental and social exposures around us jointly impact neuropsychiatric outcomes. Currently, focused in particular on Alzheimer's disease and examining how the neighborhood exposome relates to early indicators of Alzheimer's disease.

Background and Current State of Alzheimer's Research

Individual-level Risk Factors

- Genetic predisposition
- Lifestyle factors; diet as a large focus

Population-level Risk Factors

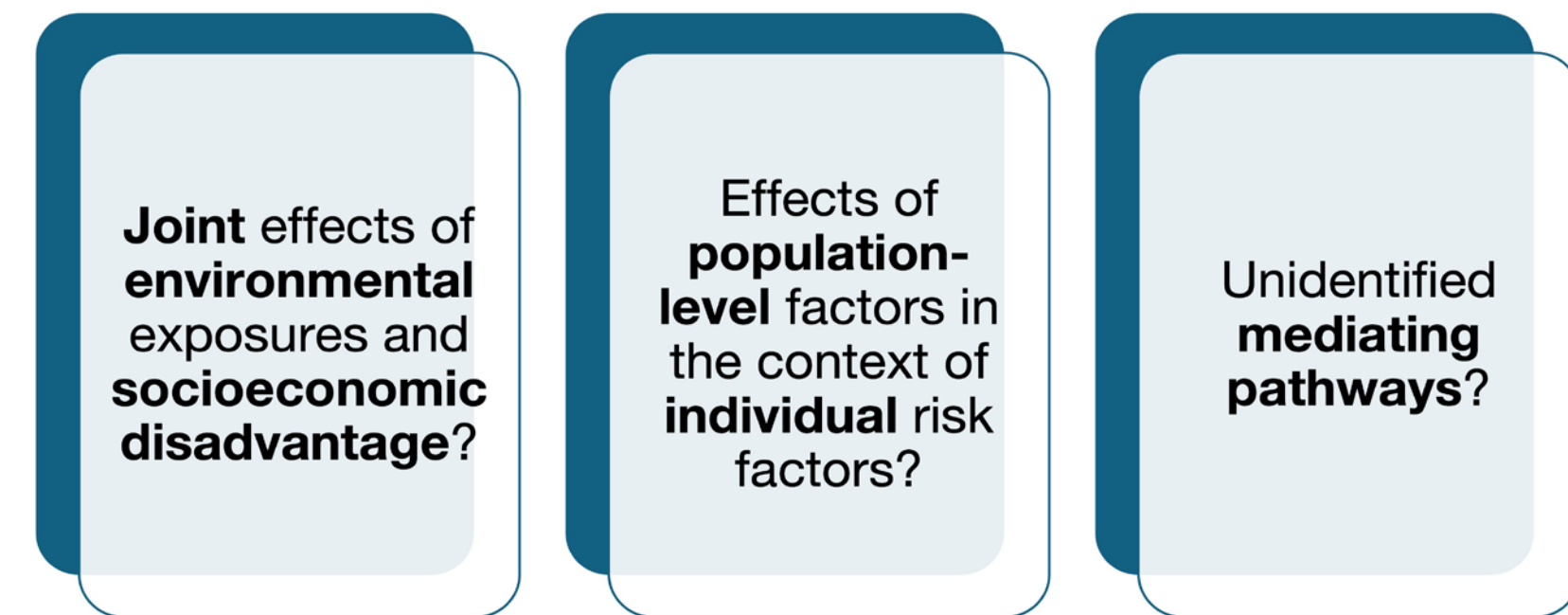
- Air pollution
- Socioeconomic disadvantage

Disease Etiology

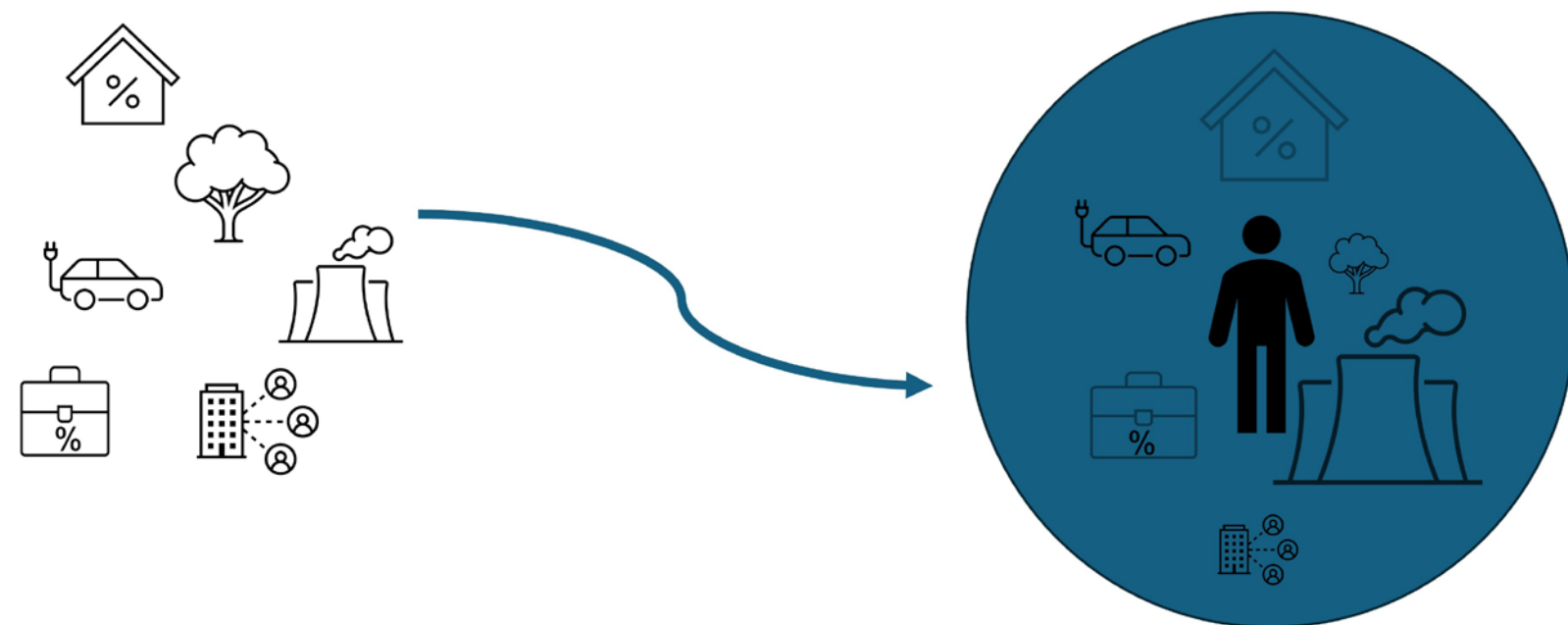
- Tau tangles and beta-amyloid plaques
- White matter burden
- Depression



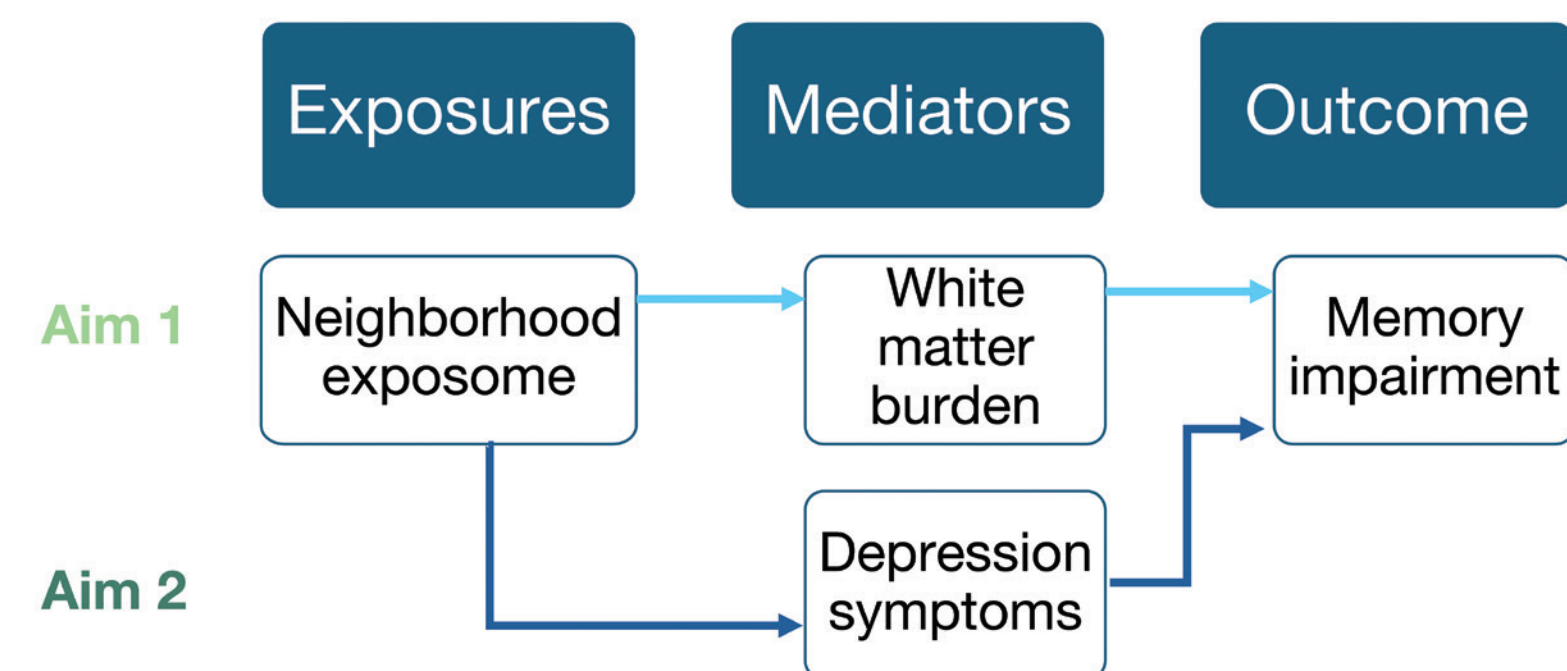
Research Gaps and Aims



Neighborhood Exposome as the Exposure of Interest



Overview of Analysis Plan and Aims



Effect Measure Modification (EMM)

How do these associations change based on dietary status and genetic predisposition?

EMM by dietary status EMM by genetic risk factors for AD

