

## TARA-LYN CAMILLERI CARTER

In my PhD, I am working to better understand the effects of parental nutrition on offspring health and how these effects are mediated. This is imperative to addressing the ever-increasing level of obesity and to continue to drive improvements to human health.

I am concentrating on the model system of the fruit fly (*Drosophila melanogaster*) to study these effects. Specifically, I am investigating the effects of parental and grandparental diet on offspring and grand-offspring lifespan, reproduction, and body composition. Fruit flies are a highly tractable system, and their conserved nutrient signalling and metabolic pathways make them an ideal model for studying nutritional effects on metabolism, reproduction, and ageing. Through my experiments with the humble fruit fly I am working to unlock answers about the nature of nutritional effects passing from generation to generation, as well as look at the evolutionary mechanisms involved in these effects.

I also love to teach, and to use my academic platform to engage with the community. I am currently am involved with several outreach programs. I would like to continue this post PhD as I am very passionate about giving everyone access to quality education, and information. Once I complete my PhD I hope to continue my research in a post-doctorial position.