**Jacob Parker Ph.D. – Postdoctoral Fellow**:

Dr. Parker is a bioinformatician in the Scherzer Laboratory. He obtained his Ph.D. degree in Bioinformatics from the University of Sheffield, United Kingdom, under the supervision of Dr. Ian Sudbery, an accomplished bioinformatician and genomicist, and Professor Sherif El-Khamisy, who’s work has contributed immensely to our understanding of the intersection between DNA damage and neurological disease, particularly cerebellar ataxias. Dr. Parker has a strong background in genome science and neurology, having done his undergraduate degree (Bsc) in Medical Genetics and having spent four years as a member of the El-Khamisy lab. During his Ph.D. he become proficient in computational analyses, learning to code in bash, python and R, acquiring experience of processing a wide variety of sequence data (RNA-seq, ChIP-seq, AP-seq, 4sU-seq) and submitting them to a range of divergent analyses (differential expression, enrichment analysis, metagenes, SNP/SNV calling, peak calling). As part of this, he also developed high-throughput pipelines for rapid, reproduceable analysis of large datasets. During his post-doctoral fellowship in the Scherzer lab he has further expanded his skills by working with scRNA and scATAC-seq data. Dr. Parker has two publications as co-author, contributing bioinformatic support to a paper that explored the role of the deubiquitylase UCHL3 in protein-linked DNA repair (Liao, et al., *Cell Reports*, 2018) and another investigating how m6A methylase contributes to mRNA export via TREX recruitment (Lesbirel, et al., *Scientific Reports*, 2018).