

Cristian Ruiz

Project title: *Advancing Single-Cell Genomics in Pediatric Brain Tumors Research*

Duration	3 months
Short Bio	My name is Cristian Ruiz and I am doing my doctoral studies at the Prinses Maxima Center for Pediatric Oncology. My research focuses primarily on understanding molecularly brain tumors using cutting-edge technologies and data analyses to find potential targets that can be used for children battling this terrible disease. It's a field that I am deeply passionate about, and my work at the center is dedicated to making a positive impact on the lives of those affected by this devastating disease.
Home Institution	Prinses Maxima Centrum (Radboud University)
Host institution	Helmholtz Munich
Project description	The research topic of the fellowship exchange focused on advancing the understanding of pediatric brain tumors through single-cell genomics analysis. Specifically, the project aimed to integrate multi-omics data and employ machine learning techniques to gain insights into the complexity of the tumor microenvironment (TME).
Personal statement	The fellowship provided an invaluable opportunity for professional growth and skill development. Through comprehensive training in machine learning, data mining, and statistical pattern recognition, I gained the expertise needed to analyze complex multi-omics datasets and apply deep learning methods to single-cell genomics. The fellowship enabled me to become proficient in biostatistics and programming, enhancing my capacity to conduct sophisticated data analysis.