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Usama Zidan

DATA SCIENTIST · AI RESEARCHER

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Recruitment Team

Application for Job Post

About the Role

I am writing to express my strong interest in the Postdoctoral Fellow position with the Tissue Regeneration and Clonal Evolution (TRCE) laboratory at The Francis Crick Institute. I learned of this exciting opportunity that closely aligns with my background and interests through the Crick website. I am particularly drawn to the project's focus on elucidating mechanisms of liver regeneration and developing computational methods to model cell fate decisions.

About Me

I recently completed my PhD in Bioengineering at Imperial College London, where my research involved developing multiscale models of liver regeneration using agent-based modeling and machine learning techniques. My work led to several first-author publications in journals like Cell Systems and Hepatology, as well as being featured at conferences including ISMB and Recomb.

During my PhD, I gained significant first-hand experience analyzing complex biological datasets and working with clinicians to ensure model relevance. A key focus of my research was pioneering interpretable AI techniques for predicting therapeutic outcomes based on patient-specific biomarkers.

Why Me?

With my PhD research background directly focused on computational modeling of liver regeneration, track record of publications applying machine learning to translational bioengineering challenges, and proven ability to work collaboratively across disciplines, I am confident I have the skills and experience needed to excel in this role advancing impactful research at the Crick.

This position perfectly matches my background, capabilities, and passion for interdisciplinary science that translates fundamental discoveries into real-world improvements for patients. I would be thrilled to join the Crick's mission to tackle pressing health challenges through breakthrough biomedical research.

Sincerely,

Usama Zidan

Attached: Curriculum Vitae