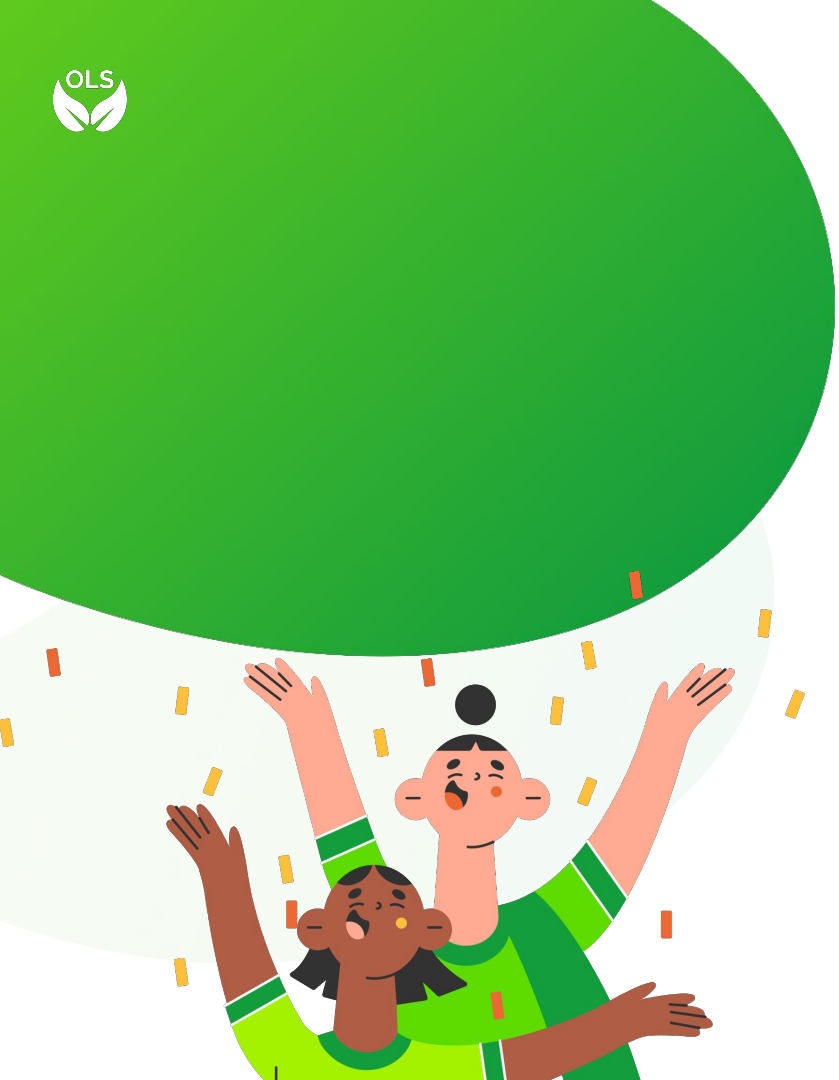
Computational Modelling of Real World Problems Using DRI and Community Outreach



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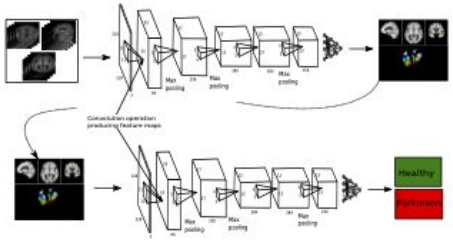
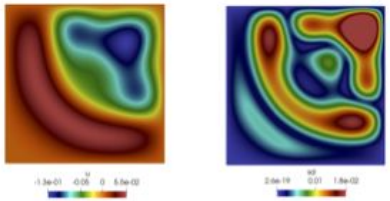
Technical Challenges

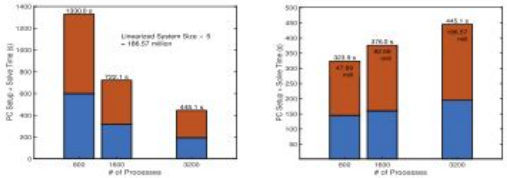


deep CNNs for segmentation and classification

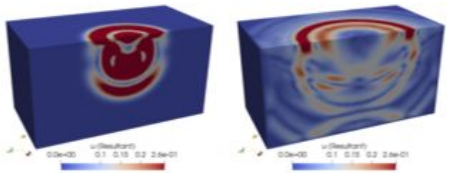
Infectious disease modelling



Acoustic wave propagation



Scalable solver development



3D earthquake wave propagation

High performance computing

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Towards an Open Science Leader

Challenge

- Designing and building for understanding
- Designing and building for participation and inclusion

Learning

- Incorporating feedback loops from users
- Designing and creating new ideas with contributors and users and allowing contributors to share governance on the project
- Building project documents, workflows and contribution guidelines
- Conducting webinars and orientation calls for contributors and users
- Mentoring and guiding others to being an open science leader

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Progress

- Conducted a DRAC resource awareness webinar to fellow researchers from different university and disciplines and collected feedback
- Developed an open canvas Canvas
- Updated my open source project resource page with detailed README, License and contributor guidelines : Github
- Created OSF account for generating DOI and sharing project documents to larger audience : OSF

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Future Work and Open Questions

- Engaging wider audience through university wide programs and social media outreach
- How to engage decision makers to create a positive impact on improved accessibility to E-D-I-A groups ?
- How to create an inclusive collaboration in design and building state of the art digital tools useful for the community ?
- How to mobilize financial and other resources for successful completion of the project
- How to effectively create a community of world class science educators and leaders

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THANK YOU

Questions/ Feedbacks ?

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