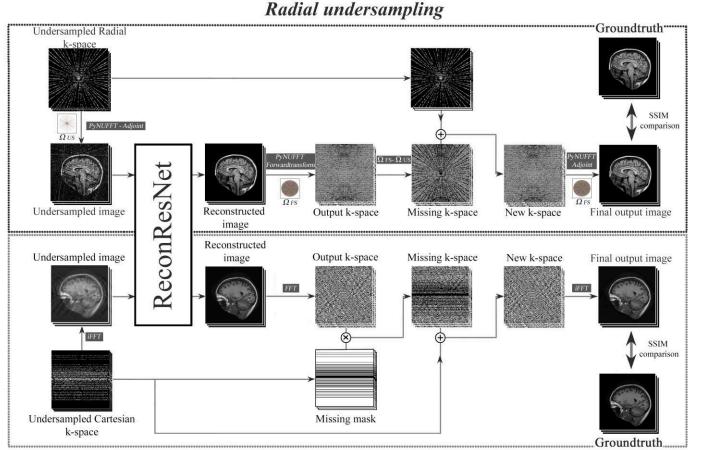
# MEMoRIAL

## **ReconResNet:** Regularised Residual Learning for MR Image Reconstruction of Undersampled Cartesian and Radial Data



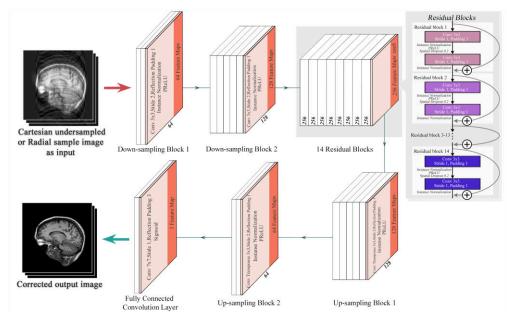
#### Welcome on board NCC1071

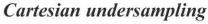
**Soumick Chatterjee**, Kartik Prabhu, Mahantesh Pattadkal, Gerda Bortsova, Chompunuch Sarasaen, Florian Dubost, Hendrik Mattern, Marleen de Bruijne, Oliver Speck, and Andreas Nürnberger



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### MIDL 2021

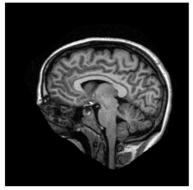
7-9 July 2021 @WWW

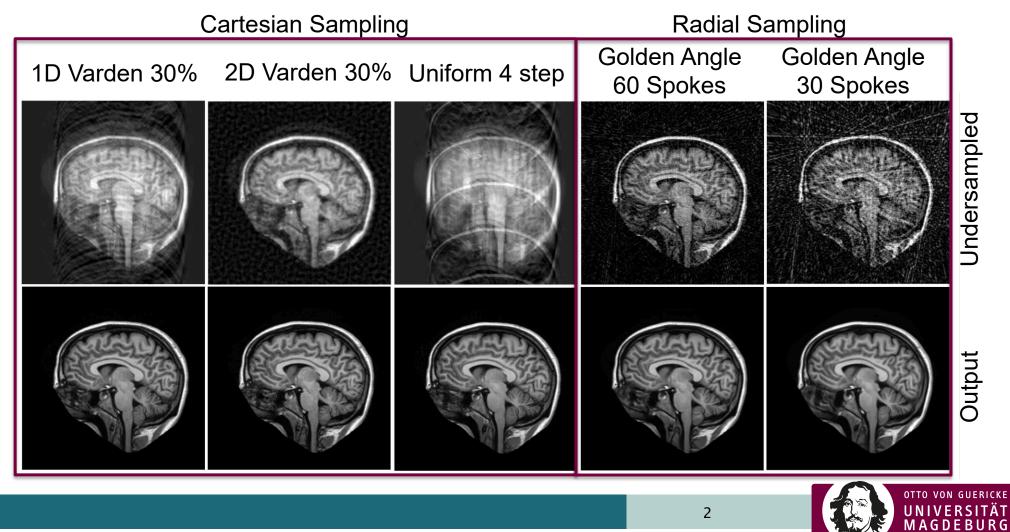


### Results – an Example Output

Various Undersampling Patterns Reconstructed







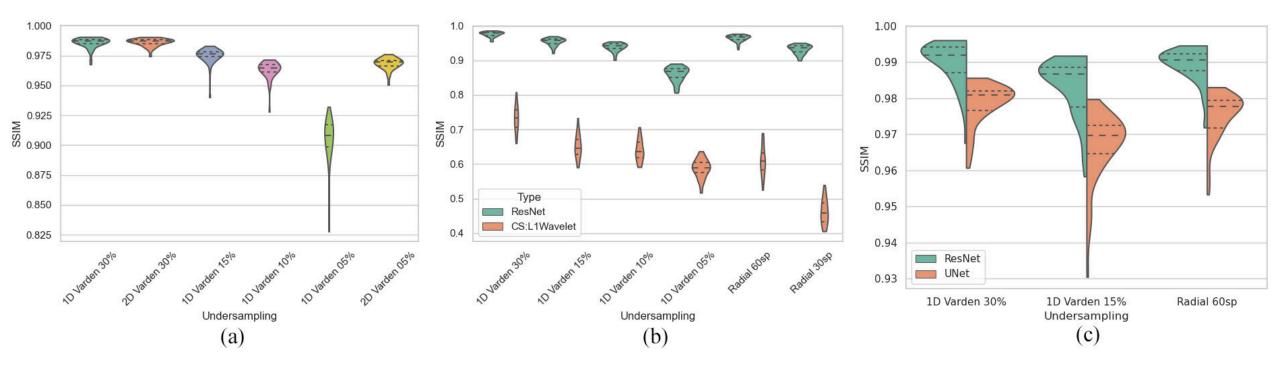
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### **Results – In Terms of Numbers**

Reconstruction quality (SSIM) of the proposed method for different sampling patterns



(a) OASIS-1 dataset: Cartesian undersamplings

(b) IXI dataset - comparison with L1-wavelet regularised compressed sensing: Cartesian and Radial undersamplings
(c) IXI dataset - comparison with UNet : Cartesian and Radial undersamplings

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