

RASTOGI, ADITYA, PHD

GENERAL INFORMATION



Postdoctoral Scholar

Section for Computational Neuroimaging
Department of Neuroradiology, University Hospital Heidelberg
Im Neuenheimer Feld 400
69120 Heidelberg, Germany

C02

ACADEMIC EDUCATION & QUALIFICATION

| Year(s) | Education |
|-----------|--|
| 2012-2016 | Bachelor's of Technology in Mechanical Engineering at Delhi Technological University, New Delhi, India |
| 2018-2022 | Master's of Technology (Research) at Department of Computational and Data Sciences, Indian Institute of Sciences, Bengaluru, India |
| 2018-2022 | Ph.D. (Faculty of Engineering) at Department of Computational and Data Sciences, Indian Institute of Science, Bengaluru, India |

SCIENTIFIC EDUCATION & QUALIFICATION

| Year(s) | Education |
|-----------|--|
| 2018-2022 | PhD Thesis, Department of Computational and Data Sciences, Indian Institute of Science, Bengaluru, India Dissertation: Development of Novel Deep Learning Methods for Fast-MRI: Anatomical Image Reconstruction to Quantitative Imaging Advisor: Prof. Phaneendra Yalavarthy |

PROFESSIONAL EXPERIENCE

| Year(s) | Experience |
|------------|---|
| since 2022 | Postdoctoral scholar, Section for Computational Neuroimaging, Department of Neuroradiology, Heidelberg University Hospital, Germany |
| 2020-2022 | Prime Minister's Research Fellow at Department of Computational and Data Sciences, Indian Institute of Science, Bengaluru, India |
| 2018-2020 | Junior Research Fellow at Department of Computational and Data Sciences, Indian Institute of Science, Bengaluru, India |

OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

| Year(s) | Awards & Scholarships |
|---------|---|
| 2020 | Awarded Prime Minister's Research Fellowship |
| 2018 | Ministry of Human Resource and Development (MHRD) scholarship for Ph.D. |

SELECTED PUBLICATIONS

1. [Rastogi, A.](#) and Yalavarthy, P.K., "Comparison of iterative parametric and indirect deep learning-based reconstruction methods in highly undersampled DCE-MR Imaging of the breast," *Medical Physics* 47(10), 4838-4861 (2020). [doi:10.1002/mp.14447].
2. [Rastogi, A.](#) and Yalavarthy, P.K., "SpiNet: A Deep Neural Network for Schatten p-norm Regularized Medical Image Reconstruction," *Medical Physics* 48(5), 2214-2229 (2021). [doi: 10.1002/mp.14744].
3. [Rastogi, A.](#), Dutta, A. and Yalavarthy, P.K., "VTDCE-Net: A spatio-temporal dimension invariant network for direct estimation of tracer kinetic p
4. Brugnara, G., Baumgartner, M., Scholze, E. D., Deike-Hofmann, K., Kades, K., Scherer, J., Denner, S., Meredig, H., [Rastogi, A.](#), Mahmutoglu, M. A., Ulfert, C., Neuberger, U., Schöenberger, S., Schlamp, K., Bendella, Z., Pinetz, T., Schmeel, C., Wick, W., Ringleb, P. A., Floca, R., Vollmuth, P., "Deep-learning based detection of vessel

occlusions on CT-angiography in patients with h suspected acute ischemic stroke,” *Nature communications*, 14(1), 4938 (2023).<https://doi.org/10.1038/s41467-023-40564-8>

5. Foltyn-Dumitru, M., Schell, M., Rastogi, A., Sahm, F., Kessler, T., Wick, W., Bendszus, M., Brugnara, G., & Vollmuth, P., “Impact of signal intensity normalization of MRI on the generalizability of radiomic-based prediction of molecular glioma subtypes,” *European radiology*, 10.1007/s00330-023-10034-2 (2023). Advance online publication. <https://doi.org/10.1007/s00330-023-10034-2>