| | |
|---|---|
| **Name:** | Rafael Neto Henriques |
| **Date of birth:** | 26/10/1988 |
| **Nationality:** | Portuguese/Canadian |
| **E-mail** | rnhenriques@fc.ul.pt<br>rafaelnh21@gmail.com |
| **ORCID:** | https://orcid.org/0000-0002-3891-8189 |
| **Google Scholar:** | https://scholar.google.co.il/citations?user=fM2vxCsAAAAJ&hl=en |
| **Web of Science** | https://www.webofscience.com/wos/author/record/M-4610-2019 |
| **Known languages:** | Portuguese (native), English (fluent), Italian (fluent) |
| | |



# Contents

## 1. Summary

**Academic Leadership & Vision:** Dr. Rafael N. Henriques is an Assistant Professor at the Institute of Biophysics and Biomedical Engineering within the Faculty of Sciences, University of Lisbon. Building upon a PhD in Medical Sciences from the University of Cambridge and a highly productive postdoctoral fellowship at the Champalimaud Foundation, his research program is dedicated to the translation, validation, and application of novel diffusion MRI methodologies from preclinical environments into clinical settings.

**Research Focus & Independent Funding:** His scientific investigations are driven by a two-pronged approach. First, he focuses on developing advanced diffusion MRI sequences on high-field preclinical systems, rigorously validating their microstructural contrast in animal models to improve specificity for stroke and cancer monitoring. Second, he spearheads the translation of these novel methodologies from preclinical environments into clinical scanners. This translational step is heavily empowered by his active leadership in open-source sequence and software development. Demonstrating strong independent research capacity, Dr. Henriques serves as the Principal Investigator on a major project funded by the Portuguese Foundation for Science and Technology (FCT), including a €250,000 grant pioneering the use of advanced diffusion MRI sequences for next-generation stroke imaging.

**Open Science & Global Collaboration:** A dedicated advocate for open-source software and reproducible computational neuroanatomy, Dr. Henriques is among the top contributors globally to the Diffusion Imaging in Python (DIPY) project. Furthermore, he has consistently contributed his expertise to large-scale, international collaborative initiatives, most notably the Cambridge Centre for Ageing and Neuroscience (Cam-CAN).

**Mentorship & Academic Engagement:** Dr. Henriques is deeply committed to shaping the next generation of scientists and engineers. In addition to coordinating foundational university courses such as "Numerical Methods", "Modelling and Simulation in Medicine" and “Fast Imaging Techniques in Magnetic Resonance”, he maintains an extensive supervision portfolio encompassing MSc theses, PhD student projects, and international Google Summer of Code developer initiatives.

## 2. Research Metrics

- **H-index:** 20 based only on main authorship papers.
- **Main Authorship Peer-reviewed Publications:** 30 total, including 12 as first/co-first author, 9 as second-author, 2 as last/co-last author.
- **Consortium Peer-reviewed Publications:** 50 total.
    - Listed as member of the Consortium authorship of the Cambridge Centre for Neuroscience and Ageing (Cam-CAN, cam-can.org) in 49 papers.
    - Listed as a contributor of the Diffusion Imaging in Python (DIPY) project: (Garyfallidis et al. Frontiers in neuroinformatics 2014, doi: 10.3389/fninf.2014.00008).
- **Conference abstracts:** 86 in national/international conferences.

## 3. Education

**2013 - 2018** **PhD in Medical Science**
Institution: MRC Cognition and Brain Science Unit, University of Cambridge, Cambridge, UK
Thesis: Advanced Diffusion MRI Modelling and its Applications in the Healthy Ageing Brain
Supervisor: Prof Marta Correia, Advisor: Prof Richard Henson

**2010 - 2012** **Master's degree in Biomedical Engineering and Biophysics**
(2-year program)
Institution: Faculty of Sciences of the University of Lisbon, Lisbon, PT
Classification: 17/20 (ranked 1st in the year)
Thesis: Diffusion Kurtosis Imaging of the Healthy Human Brain
Thesis Supervisor: Prof Marta Correia (University of Cambridge, UK)

**2007 - 2010** **Bachelor's degree in Biomedical Engineering and Biophysics**
(3-year program)
Institution: Faculty of Sciences of the University of Lisbon, Lisbon, PT
Classification: 17/20 (ranked 1st in the year)
Thesis: Dynamic System Theory and its Application to Speech Motor Control
Thesis Supervisor: Prof Pascal van Lieshout (University of Toronto, CA)

## 4. Employment

**2025 (from September) Assistant Professor**
Institution: Institute of Biophysics and Biomedical Engineering, Faculty of Science of the University of Lisbon, Lisbon, PT
Research topic: Development and clinical translation of advanced diffusion MRI methods for stroke and brain tumor imaging.

**2022-2025** **Junior Researcher (Independent Post-doctoral Researcher)**
Institution: Champalimaud Research, Champalimaud Foundation, Lisbon, PT
Research topic: Development of state-of-the-art diffusion-weighted MRI sequences for improved characterization of ischemic stroke.
Supervisor: Prof Noam Shemesh

**2018-2022** **Invited Post-Doctoral Researcher**
Institution: Champalimaud Research, Champalimaud Foundation, Lisbon, PT
Research topic: Development of advanced diffusion MRI methods and their application to investigate microstructural changes in health and disease.
Supervisor: Prof Noam Shemesh

**2013 - 2018** **PhD Research Trainee**
Institution: MRC Cognition and brain Science Unit, University of Cambridge, Cambridge, UK
Research topic: Advanced diffusion MRI modeling and its application to the study of healthy brain aging.
Supervisor: Prof Marta Correia, Advisor: Prof Richard Henson

**2012 – 2013** **Research Assistant**
Institution: Institute of Biophysics and Biomedical Engineering, Faculty of Science of the University of Lisbon, PT
Research topic: Development of tractography methods based on non-Gaussian diffusion information from Diffusion Kurtosis Imaging.
Supervisor: Prof Hugo Ferreira

**2011 - 2012** **Visiting Master's Student** (1 year, full time)
Institution: MRC Cognition and Brain Science Unit, Cambridge, University of Cambridge, Cambridge, UK
Research topic: Diffusion Kurtosis Imaging of the healthy human brain.
Supervisor: Prof Marta Correia

**2010** **Visiting Bachelor's Student** (3 months, full time)
Institution: Oral Dynamics Lab, Department of Speech-Language Pathology, University of Toronto, Toronto, CA
Research topic: Application of dynamical systems theory to speech motor control.
Supervisor: Prof Pascal van Lieshout

## 5. Publications

Peer-Reviewed Publication List
**Indicates shared authorship*

1. Sandgaard, A.D., **Henriques, R.N.**, Shemesh, N., Jespersen, S.N. 2026. Axonal microstructure and compartmentalization impact the orientation and time dependence of mesoscopic transverse relaxation. Scientific Reports (Accepted).
2. Raykov, P.P., Correia, M., Tsvetanov, K., **Henriques, R.N.,** Léon A.D.C., Bracher-Smith, M., Escott-Price, V., Cam-CAN, Henson, R.N. 2025. Complimentary MR measures of White Matter and their relation to Ageing and Cognition. Scientific Reports 15: 28890. doi: 10.1038/s41598-025-13610-2
3. Bilreiro, C., Andrade, L., **Henriques, R.,** Loução, N., Shemesh, N. Matos, C. 2025. Diffusion Tensor Imaging and Diffusion Kurtosis Imaging of the Pancreas - Feasibility, Robustness and Protocol comparison in a Healthy population. Abdominal Radiology 50(10): 4563-4574. doi: 10.1007/s00261-025-04889-w
4. Bilreiro, C., Fernades, F.F., Simões, R.V., **Henriques, R.N.,** Chavarrías, C., Ianus, A., Castillo-Martin, M., Carvalho, T., Matos, C., Shemesh, N. 2024. Pancreatic Intraepithelial Neoplasia Revealed by Diffusion-Tensor MRI. Investigative Radiology 60(6): 367-406. doi: 10.1097/RLI.0000000000001142
5. Simões, R.V., **Henriques, R.N.**, Olesen, J.L., Cardoso, B.M., Fernandes, F.F., Monteiro, M.A.V., Jespersen, S.N., Carvalho, T., Shemesh, N. 2024. Deuterium Metabolic Imaging Phenotypes Mouse Glioblastoma Heterogeneity Through Glucose Turnover Kinetics. eLife13. RP100570 doi: 10.7554/eLife.100570
6. Correia, M.M., **Henriques, R.N.**, Golub, M., Winzeck, S., Nunes, R.G. 2024. The Trouble with Free-Water Elimination using Single-Shell Diffusion MRI Data: A Case-Study in Ageing. Imaging Neuroscience. doi: 10.1162/imag_a_00252.
7. Fouto, A.R., **Henriques, R.N.**, Golub, M., Freitas, A.C., Ruiz-Tagle, A., Esteves, I., Gil-Gouveia, R., Silva, N.A., Vilela, P., Figueiredo, P., Nunes, R.G. 2024. Impact of Truncating Diffusion MRI Scans on Diffusional Kurtosis Imaging. Magnetic Resonance Materials in Physics, Biology and Medicine (In Press) doi: 10.1007/s10334-024-01153-y.
8. Sandgaard, A.D., Kiselev, V.G., **Henriques, R.N.**, Shemesh, N., Jespersen, S.N. 2024. Incorporating the effect of white matter microstructure in the estimation of magnetic susceptibility in ex vivo mouse brain. Magnetic Resonance in Medicine 91(2): 699-715. doi: 10.1002/mrm.29867.
9. **Henriques, R.N.**, Henson, R., Cam-CAN, Correia, M.M. 2023. Unique information from common diffusion MRI models about white-matter differences across the human adult lifespan. Imaging Neuroscience (In Press) doi: 10.1162/imag_a_00051.
10. **Henriques, R.N.**, Ianus, A., Novello, L., Jovicich, J., Jespersen, S.N., Shemesh N., 2023. Efficient PCA denoising of spatially correlated redundant MRI data. Imaging Neuroscience (In Press) doi: 10.1162/imag_a_00049
11. Villalón-Reina, J.E., Nir, T.M., Nourollahimoghadam, E., Dhinagar, N., Jahanshad, N., Thompson, P.M., **Henriques, R.N.** 2023. Evaluating Fiber Orientation Dispersion Measures Computed From

Single-Shell Diffusion MRI. Conf Proc IEEE Eng Med Biol Soc. 2023. doi: 10.1109/EMBC40787.2023.10340067
12. Novello, L.*, **Henriques, R.N.***, Ianus, A., Feiweier, T., Shemesh, N., Jovicich, J. 2022. In vivo Correlation Tensor MRI reveals microscopic kurtosis in the human brain on a clinical 3T scanner. Neuroimage 254: 119137 doi: 10.1016/j.neuroimage.2022.119137
13. Alves, R., **Henriques, R.N.**, Kerkelä, L., Chavarrías C., Jespersen, S.N., Shemesh, N. 2022. Correlation Tensor MRI deciphers underlying kurtosis sources in stroke, Neuroimage 247: 118833. doi: 10.1016/j.neuroimage.2021.118833.
14. Simões, R.V., **Henriques, R.N.**, Cardoso, B.M., Fernandes, F.F., Carvalho, T., Shemesh, N. 2022. Glucose fluxes in glycolytic and oxidative pathways detected in vivo by deuterium magnetic resonance spectroscopy reflect proliferation in mouse glioblastoma. Neuroimage: Clinical 33: 102932. doi: 10.1016/j.nicl.2021.102932.
15. **Henriques, R.N.**, Jespersen, S.N., Shemesh N., 2021. Evidence for microscopic kurtosis in neural tissue revealed by Correlation Tensor MRI. Magnetic Resonance in Medicine 86(6): 3111-3130 doi: 10.1002/mrm.28938
16. **Henriques, R.N.**, Correia, M., Maralle, M., Huber, E., Kruper, J., Koudoro, S., Yeatman, J., Garyfallidis, E., Rokem, A., 2021. Diffusional Kurtosis Imaging in the Diffusion Imaging in Python Project, Frontiers in Human Neuroscience 15: 675433 doi: 10.3389/fnhum.2021.675433
17. **Henriques, R.N.**, Jespersen, S.N., Jones, D., Veraart, J., 2021. Towards more robust and reproducible Diffusion Kurtosis Imaging. Magnetic Resonance in Medicine 86(3): 1600-1613. doi: 10.1002/mrm.28730.
18. Golub, M., **Henriques, R.N.***, Nunes* R.G., 2021. Free water DTI estimates from single b-value data might seem plausible but must be interpreted with care. Magnetic Resonance in Medicine 85(5): 2537-2551. doi: 10.1002/mrm28599
19. **Henriques, R.N.**, Palombo, M., Jespersen, S.N., Shemesh, N., Lundell, H., Ianus, A., 2021. Double diffusion encoding and applications for biomedical imaging. Journal of Neuroscience Methods 348: 108989. doi: 10.1016/j.jneumeth.2020.108989
20. Yon, M., Bao, Q., Chitrit, C., **Henriques, R.N.**, Shemesh, N., Frydman, L., 2020. High-resolution 3D in vivo brain diffusion tensor imaging at ultrahigh fields: Following maturation on juvenile and adult mice. Frontiers in Neuroscience 14: 590900. doi:10.3389/fnins.2020.590900
21. **Henriques, R.N.**, Jespersen, S.N., Shemesh N., 2020. Correlation Tensor Magnetic Resonance Imaging. NeuroImage 211; 116605. doi:10.1016/j.neuroimage.2020.116605
22. Bergmann, Ø., **Henriques, R.N.**, Westin, C.F., Pasternak, O., 2020 Fast and accurate initialization of the free-water imaging model parameters from multi-shell diffusion MRI. NMR in Biomedicine 33(3): e4219 doi:10.1002/nbm.4219
23. Kerkelä, L., **Henriques, R.N.**, Hall, M., Clark, C., Shemesh, N., 2020. Validation and noise robustness assessment of microscopic anisotropy estimation with clinically feasible double diffusion encoding MRI. Magnetic Resonance in Medicine 83(5): 1698-1710. doi: 10.1002/mrm.28048
24. **Henriques, R.N.**, Jespersen, S.N., Shemesh N., 2019 Microscopic anisotropy misestimation in spherical-mean Single Diffusion Encoding MRI. Magnetic Resonance in Medicine 81(5): 3245-3261. doi: 10.1002/mrm.27606.
25. Huber, E., **Henriques, R.N.**, Owen, J., Rokem, A., Yeatman, J., 2019. Applying microstructural models to understand the role of white matter in cognitive development. Developmental Cognitive Neuroscience 36: 100624. doi: 10.1016/j.dcn.2019.100624.
26. Rougier, N.P., Hinsen, K., Alexandre, F., Adrilsen, T., Barba, L.A., Benureau, F.C.Y., Brown, C.T., de Buy, P., Caglayan, O., Davison, A.P., Delsuc, M., Detorakis, G., Diem, A.K., Drix, D., Enel, P., Girard, B., Guest, O., Hall1, M.G., **Henriques, R.N.** Hinaut, X., Jaron, K.S., Khamassi, M., Klein, A., Manninen, T., Marchesi, P., McGlinn D., Metzner, C., Petchey, O., Plesser, H.E., Poisot, T., Ram, K., Ram, Y., Roesch, E., Rossant, C., Rostami, V., Shifman, A., Stachelek, J., Stimberg, M., Stollmeier, F., Vaggi, F., Viejo, G., Vitay, J., Vostinar, A.E., Yurchak, R., Zito, T., 2017. Sustainable computational science: the ReScience initiative. PeerJ Computer Science 3: e142 (2017). doi: 10.7717/peerj-cs.142

27. **Henriques, R.N.**, Rokem, A., Garyfallidis, E., St-Jean, S., Peterson, E.T., Correia, M.M., 2017. [Re] Optimization of a free water elimination two-compartment model for diffusion tensor imaging. ReScience C 3(1): 2. doi: 10.5281/zenodo.495237
28. Prince, D., Tyler, L., **Henriques, R.N.**, Campbell, K., Williams, N., Treder, M., Taylor, J., Cam-CAN, Henson, R., 2017. Age-Related Delay in Visual and Auditory Evoked Responses is Mediated by White- and Gray-matter Differences. Nature Communication 8: 15671. doi: 10.1038/ncomms15671
29. **Henriques, R.N.**, Correia, M.M., Nunes, R.G., Ferreira, H.A., 2015. Exploring the 3D Geometry of the Diffusion Kurtosis Tensor - Impacts on the Development of Robust Tractography Procedures and Novel Biomarkers. NeuroImage 111: 85-99. doi.: 10.1016/j.neuroimage.2015.02.004
30. **Henriques, R.N.**, van Lieshout, P., 2013. A Comparison of Methods for Decoupling Tongues and Lips from Jaw Movements in 3D Articulography. Journal of Speech Language and Hearing Research 56(5): 1503-16. doi: 10.1044/1092-4388(2013/12-0016)

DIPY Consortium Peer-Reviewed Paper

*Listed as a core contributor of the open-source project Diffusion in Python (DIPY, dipy.org). DIPY consortium authorship list: https://dipy.org/team.html*

1. Garyfallidis, E., Brett, M., Amirbekian, B., Rokem, A., Van Der Walt, S., Descoteaux, M., Nimmo-Smith, I., **Dipy contributors**, 2014. Dipy, a library for the analysis of diffusion MRI data. Frontiers in neuroinformatics 8, 8. doi: 10.3389/fninf.2014.00008

Selected Cam-CAN Consortium Peer-Reviewed Papers

*Listed as co-author in the consortium authorship of the Cambridge Centre for Ageing and Neuroscience (Cam-CAN, https://cam-can.mrc-cbu.cam.ac.uk/corpauth/#14) in 47 publications. A selection of 5 representative papers is presented below:*

1. Kocagoncu, E., Nesbitt, D., Emery, T., Hughers, L., Henson, R., Rowe, J., **Cam-CAN** (2022). Neurophysiological and brain structural markers of cognitive frailty differ from Alzheimer's disease. Journal of Neuroscience 42(7): 1362–1373. doi: 10.1523/JNEUROSCI.0697-21.2021
2. Lehmann, B.C.L., Henson, R.N., Geerligs, L., **Cam-CAN**, White, S.R. (2020). Characterising group-level brain connectivity: A framework using Bayesian exponential random graph models. Neuroimage 225: 117480. doi: 10.1016/j.neuroimage.2020.117480
3. Fuhrmann, D., Nesbitt, D., Shafto, M., Rowe, J.B., Price, D., Gadie, A., **Cam-CAN**, Kievit, R.A. (2019). Strong and specific associations between cardiovascular risk factors and white matter micro- and macrostructure in healthy aging. Neurobiology of Aging 74: 46-55. doi: 10.1016/j.neurobiolaging.2018.10.005
4. Taylor, J.R., Williams, N., Cusack, R., Auer, T., Shafto, M.A., Dixon, M., Tyler, L.K., **Cam-CAN**, Henson, R.N. (2017). The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) data repository: Structural and functional MRI, MEG, and cognitive data from a cross-sectional adult lifespan sample. NeuroImage 144, 262-269. doi: 10.1016/j.neuroimage.2015.09.018
5. Kievit, R. A., Davis, S. W., Griffiths, J., Correia, M., **Cam-CAN**, Henson, R. N. A. (2016). A watershed model of individual differences in fluid intelligence. Neurophychologia 91: 186-198. doi: 10.1016/j.neuropsychologia.2016.08.008

(…)

Dissertations

1. **Henriques, R.N.**, 2018. Advanced Methods for Diffusion MRI Data Analysis and their Application to the Healthy Ageing Brain (Doctoral thesis). Downing College, University of Cambridge. https://doi.org/10.17863/CAM.29356. https://www.repository.cam.ac.uk/handle/1810/281993
2. **Henriques, R.N.**, 2012. Diffusion Kurtosis Imaging of the Healthy Human Brain (Master Thesis). Bachelor and Master program in Biomedical Engineering and Biophysics, Faculty of Sciences of the University of Lisbon.

http://repositorio.ul.pt/bitstream/10451/8511/1/ulfc104137_tm_Rafael_Henriques.pdf

Selection of Invited Talks in Workshops and Universities

1. **Henriques, R.N.**, 2026. From Acquisition to Parameters: A Practical Guide to Diffusion Microstructure Imaging. ISMRM Diffusion Study Group Trainee Day: 24 Hours of Diffusion Around the World (virtual meeting).
2. **Henriques, R.N.**, 2025. Physics of Diffusion. Diffusion educational at the Annual Meeting of the ISMRM (Honolulu, USA).
3. **Henriques, R.N.,** 2024. Latest advances and applications of Correlation Tensor Imaging. Lund's Diffusion MRI Group Meeting. Lund University, Lund, SE.
4. **Henriques, R.N.**, 2024. Correlation Tensor Imaging and Its Rotational Invariants - From theory to application. MicroClub - International Seminars on advanced diffusion MRI (Online event organized by Cardiff University, UK)
5. **Henriques, R.N.**, 2023. Diffusion Imaging in Python (DIPY) and its contributions to open and reproducible research. MRI together workshop, European Society for Magnetic Resonance in Medicine and Biology (Online event)
6. **Henriques, R.N.**, 2022. Diffusion Artefacts and pre-processing. Diffusion educational at the Joint Annual Meeting of the ISMRM-ESMRMB (London, UK).
7. **Henriques, R.N.**, 2022. Correlation Tensor MRI – resolving kurtosis sources in health and disease. Microstructural imageries series, biomedical imaging of the NYU school of medicine. New York University (New York, US).
8. **Henriques, R.N.**, 2021. Diffusion MRI - free water imaging and beyond. CES Weekly talk series. Clinical & Experimental Sciences (CES) Division, Southampton General Hospital (Southampton, UK).
9. **Henriques, R.N.**, 2021. Correlation Tensor Imaging. UCL Quantitative MRI interest group. University College London (London, UK).
10. **Henriques, R.N.,** 2021. Diffusion Kurtosis Imaging (Theory and Practice). Diffusion in Python (DIPY) 2021 virtual workshop. Indiana University (Bloomington, Indiana, US).
11. **Henriques, R.N.**, 2019. Correlation tensor Imaging. CISC Seminars. Clinical Imaging Sciences Centre (Brighton, UK).
12. **Henriques, R.N.,** 2019. Diffusion MRI microstructural Models. Diffusion in Python (DIPY) workshop. Indiana University (Bloomington, Indiana, US).

Selected Abstracts in Conference Proceedings

1. **Henriques, R.N.**, Ianuş, A., Shemesh, N., Simões, R.V. 2025. Correlation Tensor Imaging at 3T for In Vivo Mouse Brain Imaging. 5th Annual Meeting of the ISMRM Iberian Chapter (Barcelona, ES) (selected for oral presentation).
2. **Henriques, R.N.,** Alves, R., Ianuş, A., Jespersen, S.N., Shemesh N., 2024. Correlation Tensor MRI Directional Metrics in Stroke Improve Lesion Characterization. 19th European Molecular Imaging Meeting (Porto, PT)
3. **Henriques, R.N.**, Simões, R.V., Monteiro, S., Ianuş, A., Carvalho, T., Jespersen, S.N., Shemesh N., 2023. Correlation Tensor Imaging Enhances Histological Differences Between Mouse Glioblastoma Subtypes. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA)
4. **Henriques, R.N.**, Alves, R., Jespersen, S.N., Shemesh, N., 2022. Three-dimensional characterization of diffusion kurtosis sources. 2nd Annual Meeting of the ISMRM Iberian Chapter (Lisbon, PT) (selected for oral presentation).
5. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2022. Hybrid PCA denoising - improving PCA denoising in the presence of spatial correlations. Joint Annual Meeting of the ISMRM-ESMRMB (London, UK) (Honourable mention at the Reproducibility Study Group).
6. **Henriques, R.N.**, Jespersen, S.N., Shemesh N., 2021. Evidence for microscopic kurtosis in neural tissue revealed by Correlation Tensor MRI. 1st Annual Meeting of the ISMRM Iberian Chapter (virtual meeting) (selected for oral presentation, best pre-clinical presentation award).

7. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2020. Correlation Tensor Imaging - resolving non-Gaussian diffusion sources of in vivo tissues. 2020 Annual Meeting of the ISMRM (virtual meeting) (selected for oral presentation, Summa Cum Laude Merit Award, top 5% best abstracts).
8. **Henriques, R.N.**, Olesen, J.L., Jespersen, S.N., Shemesh, N., 2020. Measuring the full diffusional intra- and inter-compartmental kurtosis tensors using double diffusion encoding. 2020 Annual Meeting of the ISMRM (virtual meeting) (selected for oral presentation, Magna Cum Laude Merit Award, top 15% best abstracts).
9. **Henriques, R.N.**, Tax, C.M.W., Shemesh, N., Veraart, J., 2019. Biophysical modeling of the white matter: from theory towards clinical practice. 27th Annual Meeting of the ISMRM (Montréal, CA) (selected for oral presentation)
10. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2019. The two-compartment diffusion "standard model" misestimates microscopic anisotropy in-vivo. 27th Annual Meeting of the ISMRM (Montréal, CA) (selected for oral presentation)
11. **Henriques, R.N.**, Shemesh, N., 2018. Validity Regimes of the Spherical Mean Technique. Joint Annual Meeting of the ISMRM-ESMRMB (Paris, FR) (selected for oral presentation)
12. **Henriques, R.N.**, Correia, M.M., 2017. Interpreting age-related changes based on the mean signal diffusion kurtosis. 25th Annual Meeting of the ISMRM (Honolulu, US) (selected for oral presentation, Magna Cum Laude Award, top 15% best abstracts).
13. **Henriques, R.N.**, Bergmann, Ø., Rokem, A., Pasternak, O., Correia, M.M., 2017. Exploring the potentials and limitations of improved free-water elimination DTI techniques. 25th Annual Meeting of the ISMRM (Honolulu, US) (ISMRM Diffusion Study group best poster award)
14. **Henriques, R.N.**, Correia, M.M., Dell'Acqua, F., 2016. Tract specific measures from the fODF – a way to characterize simultaneously fiber crossing and dispersion. ISMRM's Workshop on Breaking the Barriers of Diffusion MRI (Lisbon, PT) (Guarantors of Brain Travel Grant)
15. **Henriques, R.N.**, Lacerda, L., Dell'Acqua, F., Correia, M.M., 2015. Fiber direction estimates on diffusion MRI multi-shell protocols -comparison of the performances of DTI, DKI and Richardson-Lucy SD based tractography. 32nd Annual Meeting of the ESMRMB (Edinburgh, UK) (selected for oral presentation).
16. **Henriques, R.N.**, Ferreira, H.A., Correia, M.M., 2015. United Diffusion Kurtosis Imaging Toolbox. 32nd Annual Meeting of the ESMRMB (Edinburgh, UK) (best software abstract).
17. **Henriques, R.N.**, Correia, M.M., Nunes, R.G., Ferreira, H.A., 2015. Resolving crossing fibers and generalizing biomarkers using the diffusion kurtosis tensor. 23rd Annual Meeting of the ISMRM (Toronto, CA) (selected for oral presentation).

(…)

## 6. Projects & Funding

Main Projects and Main Research Funding

| | |
|---|---|
| **2025-present** | **Project title:** Next-Generation Stroke Imaging via Correlation Tensor Magnetic Resonance<br>**Funding agency:** Portuguese Foundation for Science and Technology (call for IC&DT projects, MPr-2023-12)<br>**Principal Investigator:** Henriques, N.H.<br>**Application reference:** https://doi.org/10.54499/2023.17707.ICDT<br>**Amount:** € 250000 |
| **2022-2025** | **Project title:** Correlation Tensor MRI: a paradigm shift for stroke imaging<br>**Funding agency:** Portuguese Foundation for Science and Technology, Individual Call to Scientific Employment Stimulus, 4th edition.<br>**Principal Investigator:** Henriques, R.N.<br>**Funding reference:**<br>https://doi.org/10.54499/2021.02777.CEECIND/CP1675/CT0003<br>**Amount:** € 230692 |

| | |
|---|---|
| | **Additional information:** Funding that is currently supporting my Junior Researcher Position which can be annually renewed up to 6 years**.** |
| **2012-2017** | **Project title:** Advanced methods for diffusion MRI data analysis and their application to the healthy ageing brain<br>**Funding agency:** Portuguese Foundation for Science and Technology, Individual Call to Doctoral Research Studentship<br>**Principal Investigator:** Henriques, N.H.<br>**Project reference:** SFRH/BD/89114/2012<br>**Amount:** € 20520 per year + University College Tuition fees.<br>**Additional information:** Funding that supported my PhD research at the University of Cambridge, UK. |
| **2017** | **Project title:** Applying microstructural models to understand the role of white matter in cognitive development.<br>**Funding agency:** International Neuroinformatics Coordinating Facility (INCF), Seed Funding 2016<br>**Principal Investigator:** Henriques, N.H.<br>**Amount:** $ 2140<br>**Additional information:** This funding was used to support a 2-weeks' visit to the Institute for Learning & Brain Sciences (University of Washington, Seattle, US) and the eScience Institute (University of Washington, Seattle, US). This collaboration resulted on a peer-reviewed paper (Huber, Henriques, et al., Dev Cogn Neurosci 2019). |
| **2015** | **Project title:** Implementing and optimizing advanced and novel diffusion kurtosis imaging techniques in Dipy<br>**Funding agency:** Google Summer of Code<br>**Principal Investigator:** Henriques, N.H.<br>**Amount:** $ 5500<br>**Additional information:** This funding intends to support new contributors into open-source software development. This funding was used to support my first open-source implementations for the large collaborative project Diffusion in Python (DIPY, https://dipy.org). |

Involvement in Other Projects

| | |
|---|---|
| **2018-2024** | **Project title:** Community-supported open-source software for computational neuroanatomy<br>**Funding agency:** National Institute of Biomedical Imaging and Bioengineering<br>**Principal Investigator:** Garyfallidis, E.<br>**Project references:** 1R01EB027585-01 (2018), 5R01EB027585-02 (2019), 5R01EB027585-03 (2020), 2R01EB027585-04A1 (2023), 5R01EB027585-05 (2024). **Total Amount:** $ 1611158<br>**Additional information:** Founding that supports the activities of the open-source project Diffusion Imaging in Python (DIPY). Currently, I am among the top 5 contributors to DIPY over more than 140 contributors (https://dipy.org/team.html) |
| **2017-2022** | **Project title:** Sensing activity-induced cell swellings and ensuing neurotransmitter releases for in-vivo functional imaging sans hemodynamics<br>**Funding agency:** European Research Council, ERC Starting Grant<br>**Principal Investigator:** Shemesh, N.<br>**Project reference:** agreement no. 679058<br>**Amount:** € 1787500 |

| | |
|---|---|
| | **Additional information:** Founding that enabled my recruitment as a Postdoctoral Researcher at the Champalimaud Foundation from October 2017 to September 2022**.** |
| **2010-2016** | **Project title:** Systems Cognitive Neuroscience of Healthy Ageing: Population-Representative Studies of Functional Plasticity and Neural Change<br>**Funding agency:** Biotechnology and Biological Sciences Research Council<br>**Investigators:** (PI) Tyler, L, (co-PIs) Bullmore, E, Calder, A, Cuscack, R, Dalgleish, T, Duncam, J, Henson, R, Marslen-Wilson, W, Matthews, F, Rowe, J<br>**Project reference:** BB/H008217/1<br>**Amount:** £ 4195084<br>**Additional information:** Founding that supported the large collaborative project of the Cambridge Centre for Ageing Neurosience (Cam-CAN, https://cam-can.org/), e.g. the MRI data collection for ~700 subjects (aged from 18 to 88 years old) used for my PhD dissertation. |
| **2011-2012** | **Project title:** Comprehensive multi-parametric analysis of the limbic system connectivity in post-traumatic epilepsy patients<br>**Funding agency:** Portuguese Foundation for Science and Technology, Research & Development Projects<br>**Principal Investigator:** Ferreira, H.F.<br>**Project reference:** PTDC/SAU-ENB/120718/2010<br>**Amount:** € 95959<br>**Additional information:** Founding that enabled my recruitment as a Research Assistant position at the Faculty of Science of the University of Lisbon, PT |

## 7. Teaching

Responsible for Courses

| **University Courses** | |
|---|---|
| **2026 - Present** | Responsible of the course "Modelling and Simulations in Medicine" of the Master's in "Biomedical Engineering and Biophysics" at the *Faculdade de Ciências da Universidade de Lisboa* (FCUL), Lisbon, PT<br>**Position:** Associate Professor |
| **2025 - Present** | Responsible of the course "Numerical Methods" of the Bachelor's in "Physics Engineering" and Bachelor's of "Biomedical Engineering" at the *Faculdade de Ciências da Universidade de Lisboa* (FCUL), Lisbon, PT<br>**Position:** Associate Professor |
| **2024-2025** | Lector of the course "Fast Imaging Techniques in Magnetic Resonance" of the Master's in "Radiation Applied to Health Technologies" at the *Escola Superior de Tecnologia da Saúde de Lisboa* (ESTESL), Polytechnic Institute of Lisbon, Lisbon, PT<br>**Position:** Invited Adjunct Professor |
| **International Workshops and Conferences** | |
| **2020** | Organizer and Lector of the two-day workshop "Diffusion MRI in DIPY" part of the "Cambridge Python for Brain Imaging (PyBrain)" Workshop Series (University of Cambridge, UK).<br>**Course URL:** https://pybrain-workshop.github.io/ |

Contributions to Other Courses

| **University Courses** | |
|---|---|
| **2025** | Delivered the lecture "Advances in Diffusion MRI for a More Specific Diagnosis" for the "Diagnosis and therapy with radiation and protons" course of the MSc program in Engineering Physics, Faculty of Science of the University of Lisbon (FCUL), PT.<br>**Invited by:** Prof Brígida da Costa Ferreira |

| | |
|---|---|
| **2022** | Delivered the lecture "Diffusion MRI and its Applications to Neuroscience" for the "Neuroscience" course of the MSc program in Biomedical Engineering, Faculty of Science of the University of Lisbon (FCUL), PT.<br>**Invited by:** Prof Alexandre Andrade |
| **2021** | Delivered the lecture "Diffusion MRI" for the "Seminars" course of the BSc program in Biomedical Engineering, Faculty of Science of the University of Lisbon (FCUL), PT.<br>**Invited by:** Prof Nuno Matela |
| **2013-2015** | Tutor of the practical for the course "Mathematical Biology" of the Natural Sciences Tripos, (1st year part IA) of the University of Cambridge, UK.<br>**Teaching Hours:** ~80 Hours |
| **International Workshops and Conferences** | |
| **2025** | Delivered the lecture "Physics of Diffusion" at the "Contrast Mechanism: Modelling from the Ground Up" weekend course of the annual meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), Honolulu, USA.<br>**URL:**https://submissions.mirasmart.com/ISMRM2025/Itinerary/ConferenceMatrixEventDetail.aspx?ses=WE-12 |
| **2023** | Delivered the lecture "Diffusion Imaging in Python (DIPY) and its contributions to open and reproducible research" at the "MRI Together Workshop", organized by the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB).<br>**URL:** https://mritogether.esmrmb.org/23m/programbook.html |
| **2022** | Delivered the lecture "Diffusion Pre-Processing & Artifact Correction" at the "Diffusion Weekend Course" of the joint annual meeting of the ESMRMB and ISMRM (London, UK).<br>**URL:** https://www.ismrm.org/22/program-files/WE-06.htm |

## 8. Supervisions

Supervisions of master's dissertation

| | |
|---|---|
| **2025-Present** | Main supervisor of the master's thesis in Biomedical Engineering (Instituto Superior Tecnico, University of Lisbon) titled "Investigating Microscopic Kurtosis Dependencies on Scanner Parameters" - student **Constança Baptista** |
| **2025-Present** | Main supervisor of the master's thesis in Biomedical Engineering (Instituto Superior Tecnico, University of Lisbon) titled "Advanced Fitting Strategies for Robust Estimation of Correlation Tensor MRI Metrics" - student **Mariana Ventura** |
| **2025-Present** | Main supervisor of the master's thesis in Biomedical Engineering (Instituto Superior Tecnico, University of Lisbon) titled "Open-Source Processing Pipelines for Correlation Tensor Imaging" – student **Catarina G. Freitas** |
| **2020-2021** | Main supervisor of the master's thesis in Biomedical Engineering (Lisbon FCT-NOVA University, Portugal) titled "Diffusion Microscopic Anisotropy Estimation in the Brain" by Simão Sá.<br>**Results:** During his internship, I mentored Simão Sá in software development within a collaborative environment. These skills were instrumental in his subsequent employment as a Software Engineer at MetaCell (https://metacell.us). |
| **2017-2019** | Co-supervisor of the master's thesis in Biomedical Engineering (Instituto Superior Tecnico, Universidade de Lisboa, PT) titled "Implementation of an algorithm for estimating free-water fraction in Diffusion-Weighted Magnetic Resonance Imaging" by Marc Golub.<br>**Results:**<br>• Peer-reviewed paper: Golub, Henriques*, Nunes* (*shared last author). Free water DTI estimates from single b-value data might seem plausible but must be interpreted with care. Magnetic Resonance in Medicine 2021: 85(5): 2537-2551. doi: 10.1002/mrm28599 – this paper elucidates the limitation of the most used dMRI model to represent free water effects relevant for pathologies associated with brain atrophy. |

| | |
|---|---|
| | • URL of open-source code: https://github.com/mvgolub/FW-DTI-Beltrami<br>• Additional Notes: Currently Marc Golub is pursuing a PhD at the Institute for Systems and Robotics (Instituto Superior Tecnico, Universidade de Lisboa, PT) |

Supervisions of Google Summer of Code Projects

| | |
|---|---|
| **2023** | Supervisor of Google Summer of Code Project (GSoC) titled "DIPY: Correlation Tensor Magnetic Resonance Imaging" by BSc student Shilpi Prasad (Dayananda Sagar College of Engineering, Bangalore, India).<br>**Result:** Shilpi Prasad successfully implemented reference open-source procedures for Correlation Tensor Magnetic Resonance Imaging, now available in the DIPY project: https://docs.dipy.org/stable/examples_built/reconstruction/reconst_cti.html |
| **2023** | Co-supervisor of Google Summer of Code Project (GSoC) titled "Generative Synthetic MRI Data" by Vara Lakshmi (Research Assistant at New Your University, New York, US).<br>**Result:** Implementation of a framework for generating anatomical MRI images using unconditional Diffusion Modelling in Tensorflow: https://gist.github.com/lb-97/57347e7d06d87a0aa3b77887631f33bc |
| **2022** | Co-supervisor of Google Summer of Code Project (GSoC) titled "Improving GPU-accelerated Monte Carlo simulations in Disimpy" by Joel Hurtado Moreno.<br>**Result:** Improving code processing speed of the open-source package "Diffusion Simulations in Python" (DISIMPY) – a python package designed to simulate diffusion MRI signals that can be useful for the development and validation of novel diffusion MRI techniques: (https://github.com/jhurtadomoreno/GSoC2022/blob/main/GSoC_report.rst) |
| **2022** | Co-supervisor of Google Summer of Code Project (GSoC) titled "Implementation of White Matter Substrates in Disimpy" by Renata Cruz (Research assistant at Champalimaud Foundation, Lisbon, PT).<br>**Result:** Implementation of an algorithm to generate packed cylinders (simple model for white matter bundles) for the open-source package DISIMPY: https://github.com/renata-cruz/GSoC?tab=readme-ov-file |
| **2016** | Co-supervisor of Google Summer of Code Project (GSoC) titled "Automatic Denoising and Robust Brain Extraction" by Riddhish Bhalodia.<br>**Result:** During the project, Riddhish Bhalodia implemented the reference open-source procedures for image denoising using Principal Component Analysis of the DIPY project: https://docs.dipy.org/stable/examples_built/preprocessing/denoise_localpca.html#sphx-glr-examples-built-preprocessing-denoise-localpca-py |
| **2016** | Co-supervisor of Google Summer of Code Project (GSoC) titled "Implementing Intra Voxel Incoherent Motion (IVIM) techniques in Dipy" by Shahnawaz Ahmed.<br>**Result:** During the project, Shahnawaz Ahmed implemented the reference open-source procedures for the IVIM model of the DIPY project: https://docs.dipy.org/stable/examples_built/reconstruction/reconst_ivim.html#sphx-glr-examples-built-reconstruction-reconst-ivim-py |

Supervision of Individual Projects within PhD Dissertations

| | |
|---|---|
| **2022-2024** | **PhD Student:** Ana Fouto (Instituto Superior Tecnico, University of Lisbon, PT)<br>**Project description:** Optimization the acquisition order of diffusion-weighted images to improve the robustness of Diffusional Kurtosis Imaging to scan interruption/incomplete protocol acquisitions.<br>**Result:** Peer-reviewed paper: Fouto, Henriques, Golub, Freitas, Ruiz-Tagle, Esteves, Gil-Gouveia, Silva, Vilela, Figueiredo, Nunes. 2024. Impact of Truncating Diffusion MRI Scans on Diffusional Kurtosis Imaging. Magnetic Resonance Materials in Physics, Biology and Medicine (In Press) doi: 10.1007/s10334-024-01153-y |
| **2021-2022** | **PhD Student:** Rita Alves (Champalimaud Foundation, Lisbon, PT)<br>**Project description:** Improve the sensitivity and specificity of ischemic stroke imaging using the novel advanced diffusion MRI technique – Correlation Tensor MRI - developed |

| | |
|---|---|
| | during my postdoctoral research (Henriques et al., NeuroImage 2020, doi:10.1016/j.neuroimage.2020.116605; Henriques et al., Magn Reson Med 2021, doi: 10.1002/mrm.28938)<br>**Results:**<br>• Peer-reviewed paper: Alves, Henriques, Kerkelä, Chavarrías, Jespersen, Shemesh, N. 2022. Correlation Tensor MRI deciphers underlying kurtosis sources in stroke, Neuroimage 247: 118833. doi: 10.1016/j.neuroimage.2021.118833<br>• Conference abstracts highlights: 4 abstracts selected for oral presentations: 1) the 2022 ISMRM's workshop on diffusion MRI (Amsterdam, NL); 2) the 2022 annual meeting of the ISMRM's Iberian chapter (Lisbon, PT); 3) the 2022 joint annual meetings of ISMRM-ESMRMB (London, UK); and 4) the 2021 annual meeting of the ISMRM (virtual meeting).<br>• Conference abstracts awards: best poster award (1st place) at the 2021 ISMRM's Diffusion Study Group Trainee Day: 24 Hours of Diffusion Around the World. |
| **2021-2022** | **PhD Student:** Lisa Novello (Trento University, Trento, Italy)<br>**Project Description:** Explore the translation potential of my own developed advanced diffusion MRI technique – Correlation Tensor MRI – from pre-clinical to clinical scanners.<br>**Results:**<br>• Peer-reviewed paper: Novello*, Henriques*, Ianus, Feiweier, Shemesh, Jovicich 2022. In vivo Correlation Tensor MRI reveals microscopic kurtosis in the human brain on a clinical 3T scanner. Neuroimage 254: 119137 doi: 10.1016/j.neuroimage.2022.119137<br>• Paper highlights: featured as the cover page of Neuroimage, vol. 254.<br>• Conference abstracts highlights: 2 abstracts selected for oral presentations: 1) the 2022 joint annual meetings of ISMRM-ESMRMB (London, UK); and 2) the 2021 annual meeting of the ISMRM (virtual meeting). |
| **2019-2020** | **PhD Student:** Leevi Kerkelä (University College London, London, UK)<br>**Project Description:** Validate a fast acquisition protocol for the estimation of microscopic diffusion anisotropy using Double Diffusion Encodings (DDE)<br>**Result:** Peer-reviewed paper: Kerkelä, Henriques, Hall, Clar, Shemesh 2020. Validation and noise robustness assessment of microscopic anisotropy estimation with clinically feasible double diffusion encoding MRI. Magnetic Resonance in Medicine 83(5): 1698-1710. doi: 10.1002/mrm.28048 |

## 9. Examinations & Revisions

PhD Thesis

| Year | Role | Thesis degree | Thesis title | Applicant's name | University |
|---|---|---|---|---|---|
| **2026** | External Examiner | PhD in Biomedical Engineering | Monitoring Disease Progression in Multiple Sclerosis Using Connectivity Biomarkers Derived from Advanced Diffusion Magnetic Resonance Imaging | Maria Ana Dias de Almeida Francisco Caranova | Faculty of Science and Technologies of the University of Coimbra (PT) |
| **2020** | External Examiner | PhD in Biomedical Engineering and Biophysics | Combined brain language connectivity and intraoperativeneurophysiologic techniques in awake craniotomy for eloquent-area brain tumor resection | João Carlos Leote Rebocho | Faculty of Science of the University of Lisbon (PT) |

PhD Thesis Advisory Committee - *Comissão de Acompanhamento de Tese (CAT)*

| Year | Role | Thesis degree | Thesis title | Applicant's name | University |
|---|---|---|---|---|---|
| **2022** | External Examiner | PhD in Biomedical Engineering | Multimodal neuroimaging biomarkers through the migraine cycle | Ana Lúcia Rodrigues Fouto | Instituto Superior Tecnico, Lisbon (PT). |

Master Thesis

| Year | Role | Thesis degree | Thesis title | Applicant's name | University |
|---|---|---|---|---|---|
| | | | | | |
| **2026** | President | Master's degree in Biomedical Engineering and Biophysics | Synthesizing High B-Value Diffusion-Weighted Imaging of the Prostate using Diffusion Models | Pedro Rodrigues Parracho | Faculty of Science of the University of Lisbon (PT) |
| **2026** | President | Master's degree in Biomedical Engineering and Biophysics | High-throughput automatized reach-to-grasp setup to study motor control and movement patterns | Afonso Manuel Saraiva Germano | Faculty of Science of the University of Lisbon (PT) |
| **2026** | President | Master's degree in Biomedical Engineering and Biophysics | The Supportive Role of Glia in Brain Tumor Growth | Sara Rodrigues Fontoura | Faculty of Science of the University of Lisbon (PT) |
| **2025** | President | Master's degree in Biomedical Engineering and Biophysics | DBS e rTMS como janelas causais para os mecanismos das discinesias na doença de Parkinson | Daniel Barateiro Lopes | Faculty of Science of the University of Lisbon (PT) |
| **2025** | External Examiner | Master's degree in Biomedical Engineering | Uncovering Functional Imaging Correlates of Rest Tremor and Other Motor Symptoms in Parkinson’s Disease | Adriana Rusu | NOVA School of Science & Technology, University Lisbon (PT) |
| **2025** | External Examiner | Master's degree in Biomedical Engineering | Artificial Intelligence Applied to Brain Tumor Classification | Ana Filipa Ferreira Ribeiro | Escola Superior de Tecnologia da Saúde de Lisboa, Instituto Politécnico |

| | | | | | |
|---|---|---|---|---|---|
| | | | | | de Lisboa (PT) |
| **2025** | President | Master's degree in Biomedical Engineering and Biophysics | Towards the Clinical Implementation of Deformable Registration in Gynecological Radiotherapy | Carolina da Silva Fernandes | Faculty of Science of the University of Lisbon (PT) |
| **2025** | External Examiner | Master's degree in Biomedical Engineering | Predictive Neuroimaging Biomarkers for Esketamine Response in Patients with Treatment-Resistant Depression | Mariana Do Ó Figueira Beja Falcão | NOVA School of Science & Technology, University Lisbon (PT) |
| **2019** | External Examiner | Master's degree in Biomedical Engineering and Biophysics | Integration of Multi-shell Diffusion Imaging derived Metrics in Tractography Reconstructions of Clinical Data | Joana Rita Simões Guido | Faculty of Science of the University of Lisbon (PT) |
| **2018** | External Examiner | Master's degree in Biomedical Engineering | Identification of brain connectivity disruptions due to thalamic lesions in early development using Diffusion-Weighted MRI | Ana Rita Veiga de Oliveira | Instituto Superior Tecnico, Lisbon (PT). |

Reviewer in International Journals

| **Journal** | **# Manuscript Reviewed** |
|---|---|
| Magnetic Resonance in Medicine | 17 |
| NeuroImage | 4 |
| Imaging Neuroscience | 3 |
| NMR in Biomedicine | 2 |
| Medical Imaging Analysis (MEDIA) | 2 |
| PLoS ONE | 2 |
| Magnetic Resonance Imaging | 2 |
| IEEE Signal Processing Letters | 1 |
| Frontiers in Oncology | 1 |
| Frontiers in Aging Neuroscience | 1 |
| Frontiers in Neurology | 1 |
| Magnetic Resonance Materials in Physics, Biology and Medicine (MAGNA) | 1 |
| Acta Applicandae Mathematicae | 1 |
| Journal of Integrative Neuroscience | 1 |
| Physic Review E | 1 |

## 10. Recognition by the International Scientific Community

Awards and Recognitions

| | |
|---|---|
| **2022** | **Honourable mention** at the Reproducibility Research Study group at the 2022 ISMRM-ESMRMB Joint annual meeting for the presentation titled "Hybrid PCA denoising - improving PCA denoising in the presence of spatial correlations" |
| **2022** | **NeuroImage Cover** featuring the original article "In vivo Correlation Tensor MRI reveals microscopic kurtosis in the human brain on a clinical 3T scanner" |
| **2022** | **Top 10% most downloaded paper during its first 12 months** for the original article "Towards more robust and reproducible Diffusion Kurtosis Imaging" submitted at the Journal "Magnetic Resonance in Medicine" |
| **2021** | **Best pre-clinical oral presentation award** for the abstract titled "Evidence for microscopic kurtosis in neural tissue revealed by Correlation Tensor MRI" presented at the 1st annual meeting of the IBERIAN chapter |
| **2020** | **Summa Cum Laude Merit Award (top 5% best abstracts)** for the abstract titled "Correlation Tensor Imaging – resolving non-Gaussian diffusion sources of in vivo tissues" presented at the 2020 Annual Meeting of the ISMRM |
| **2020** | **Magna Cum Laude Merit Award (top 15% best abstracts)** for the abstract titled "Measuring the full diffusional intra- and inter-compartmental kurtosis tensors using double diffusion encoding" presented at the 2020 Annual Meeting of the ISMRM |
| **2020** | **Top 10% most downloaded paper during its first 12 months** for the original article "Microscopic anisotropy misestimation in spherical-mean Single Diffusion Encoding MRI." submitted at the Journal "Magnetic Resonance in medicine" |
| **2018** | **Trainee Stipend Award** at the 2018 Joint annual meeting of the ISMRM-ESMRMB (covering conference registration fees) |
| **2018** | **Marie Sklodowska-Curie Actions Seal of Excellence** for the Postdoctoral Fellowship proposal titled "NAPALM: Mapping specific aspects of neuroplasticity using advanced MRI sequences and ultra-field MRI" |
| **2017** | **Best Poster Presentation (1st Place)** for the poster presentation "Exploring the potentials and limitations of improved free-water elimination DTI techniques" at the diffusion study group of the 25th ISMRM Annual Meeting |
| **2017** | **Trainee Stipend Award** at the 2017 annual meeting of the ISMRM (covering conference registration fees) |
| **2017** | **Magna Cum Laude Merit Award (top 15% best abstracts)** for the abstract titled "Interpreting age-related changes based on the mean signal diffusion kurtosis" presented at the 2017 Annual Meeting of the ISMRM. |
| **2016** | **Guarantors of Brain Travel Grant** for the poster titled "Tract specific measures from the fODF – a way to characterize simultaneously fiber crossing and dispersion" presented at the ISMRM Workshop on "Breaking the Barries of Diffusion MRI" (600 British pounds) |
| **2016** | **Trainee Stipend Award** at the 2016 annual meeting of the ISMRM (covering conference registration fees) |
| **2015** | **Certificate of Merit (best software abstract)** for the abstract titled "United Diffusion Kurtosis Imaging (UDKI) Toolbox." present at the 32nd Annual meeting of the ESMRMB |
| **2015** | **Google Summer of Code Award** for being admitted to the 2015 Google Summer of Code (GSoC) project |
| **2011** | **Erasmus student mobility for placements scholarship** to perform my final master's thesis at the MRC Cognition and Brain Sciences Unit, Cambridge, UK (€2361) |
| **2011** | **Annual merit scholarship** awarded to the best students of the Faculty of Science of the University of Lisbon (University tuition fees reduction) |
| **2010** | **Annual merit scholarship** awarded to the best students of the Faculty of Science of the University of Lisbon (University tuition fees reduction) |

| | |
|---|---|
| **2009** | **FCT's Integration into Research Grant Award** given by the Portuguese Foundation for Science and Technology (FCT) to promote early research activity among undergraduates (€1680) |
| **2009** | **Annual merit scholarship** awarded to the best students of the Faculty of Science of the University of Lisbon (University tuition fees reduction) |
| **2009** | **Top 40 best student award.** Awarded as one of the best 40 first year students (2007/2008) of the Faculty of Science of the University of Lisbon in the commemorative session "dia da FCUL 28 de abril de 2009" |
| **2008** | **Annual merit scholarship** awarded to the best students of the Faculty of Science of the University of Lisbon (University tuition fees reduction) |

Coordination of and participation in programme committees of scientific events

| | |
|---|---|
| **2024** | Moderator of the plenary session "Preclinical MRI (Prof Sebastián Cerdán) at the 4th annual meeting of the ISMRM IBERIAN chapter (Porto, PT) |
| **2024** | Organizer of the 2024 Diffusion in Python (DIPY) workshop (virtual event) |
| **2023** | Organizer of the 2023 Diffusion in Python (DIPY) workshop (virtual event) |
| **2022** | Organizer of the 2022 Diffusion in Python (DIPY) workshop (virtual event) |
| **2021** | Organizer of the ISMRM Diffusion Study Group Traine Day "24 Hours of Diffusion Around the World" (2-day official virtual event of the ISMRM). |
| **2021** | Moderator of the scientific section "Diffusion Tractography" at the ISMRM annual meeting (virtual meeting). |
| **2021** | Organizer of the 2021 Diffusion in Python (DIPY) workshop (virtual event) |
| **2020** | Organizer of the workshop "Diffusion MRI with DIPY" part of the Cambridge "Python for brain Imaging (Pybrain)" workshop series (virtual events organized by the University of Cambridge, Cambridge, UK). |
| **2019** | Organizer of the Diffusion in Python (DIPY) exhibition at the 25th Annual Meeting of the OHBM (Rome, IT). |
| **2019** | Moderator of the scientific section "Diffusion MRI: Signal Representation " at the ISMRM annual meeting (Montréal, QC, Canada). |
| **2021** | Organizer of the first Diffusion in Python (DIPY) workshop at the Indianapolis University, Bloomington, Indiana, US. |
| **2016** | Organizer of the diffusion in Python (DIPY) exhibition at the 22nd Annual Meeting of the OHBM (Geneva, CH). |

Participation as a member of scientific societies with competitive admission

| **Year** | **Role** |
|---|---|
| **2015-present** | **DIPY official contributor.**<br>**Role:** Official contributor of the Diffusion in Python (DIPY) project - top 5 of more than 140 contributors from more than 30 Universities (https://dipy.org/team.html).<br>**Responsibilities:** Main developer of algorithms for new imaging techniques. Code maintenance. Review of code developed by other collaborators. Authorized to approve new implementations and/or code alterations into DIPY source code. |
| **2023** | **Official Google Summer of Code (GSoC) administration.**<br>**Role:** Admin of the "Diffusion Imaging in Python" sub-organization of the "Python" organization of the Google Summer of Code (GSoC) program.<br>**Responsibilities:** Support new contributors (typically master or PhD students) into open-source software development by financed 3-months projects. Facilitate communications between students and supervisors. Assist students on the submission of weekly blog posts, and the intermediate and final evaluation reports. |
| **2020-2022** | **Elected DSG-ISMRM trainee representative.** |

| | |
|---|---|
| | **Role:** Trainee representative of the Diffusion Study Group (DSG) of the International Society for Magnetic Resonance in Medicine (ISMRM).<br>**Responsibilities:** Organization of the DSG trainee award competition at the annual meetings of ISMRM and at the ISMRM Diffusion Workshop, and for managing the DSG's tweeter account (@DiffusionISMRM). |
| **2014-present** | **ISMRM member**. Member of the International Society for Magnetic Resonance in Medicine (ISMRM) |
| **2013-2019** | **OHBM member.** Member of the international society Organization for Human Brain Mapping (OHBM) |

## 11. Public Engagement and Media

| | |
|---|---|
| **2025** | **Extensive National and International Media Coverage of the study Bilreiro et al. Investigative Radiology 2025.** The study received extensive national and international media coverage (featured in over 40 national and 10 international media outlets), including by CNN Portugal, Público, TVI, SIC Notícias, Diário de Notícias, Expresso, Antena 1, Renascença, Lusa, US News & World Report, News Medical, and Health Imaging, among others. |
| **2022** | **Invited speaker at the high-school "Escola Artística António Arroio" (Lisbon, PT) in a commemorative event to celebrate the World Philosophy Day (17th November 2022).** In this event I delivered a speech about the Freedom of Expression in Scientific Research and engaged with approximately ~70 students to share my experience from my professional involvement in scientific investigations. |
| **2021** | **Interviewed by Prestigious Portuguese National Newspaper *Público* (31st July).** Newspaper article featuring my advances in MRI and diffusion encoding techniques, relative to the findings reported in the peer-reviewed paper: Henriques et al. MRM 2021; 86(6): 3111-3130 doi: 10.1002/mrm.28938 |

# Appendix I – Full List of Consortium Peer-Reviewed Paper

1. Wolpe, N., Harlev, D., Bergmann, E., **Cam-CAN**, Henson, R.N. (2025). Age-related positivity bias in emotion recognition is linked to lower cognitive performance and altered amygdala–orbitofrontal connectivity. Journal of Neuroscience 45(39):e0386252025. doi: 10.1523/JNEUROSCI.0386-25.2025
2. King, D.L.O., Henson, R.N., Correia, C., Rowe, J.B., **Cam-CAN**, Tsvetanov, K.A. (2025). Pulse Pressure impairs cognition via white matter disruption. Hypertension 82(9):1480-1491. doi: 10.1161/HYPERTENSIONAHA.124.24543
3. Henson, R.N., Olszowy, W., Tsvetanov, K.A., Yadav, P.S., **Cam-CAN**, Zeidman, P. (2024). Evaluating Models of the Ageing BOLD Response. Human Brain Mapping 45 (15): e70043.
4. Raykov, P.P., Knights, E., **Cam-CAN**, Henson, R-N. (2024). Does functional system segregation mediate the effects of lifestyle on cognition in older adults? Neurobiology of Aging 134: 126-134. doi: 10.1016/j.neurobiolaging.2023.11.009
5. Liu, X., Tyler, L.K., **Cam-CAN**, Davis, S.W., Rowe, J.B., Tsvetanov, K.A. (2023). Cognition's dependence on functional network integrity with age is conditional on structural network integrity. Neurobiology of Aging, 129, 195-208
6. McCormick, E.M., **Cam-CAN**, Kievit, R.A (2023). Poorer White Matter Microstructure Predicts Slower and More Variable Reaction Time Performance: Evidence for a Neural Noise Hypothesis in a Large Lifespan Cohort. Journal of Neuroscience, 43
7. Lugtmeijer, S., Geerligs, L., Tsvetanov, K.A., Mitchell, D.J., **Cam-CAN**, Campbell, K.L. (2023). Lifespan differences in visual short-term memory load-modulated functional connectivity. Neuroimage 270: 119982. doi: 10.1016/j.neuroimage.2023.119982
8. King, D.L.O., Henson, R.N., Kievit, R., Wolpe, N., Brayne, C., Tyler, L.K., Rowe, J.B., **Cam-CAN**, Tsvetanov, K.A. (2023). Distinct components of cardiovascular health are linked with age-related differences in cognitive abilities. Scientific Reports 13: 978. doi: 10.1038/s41598-022-27252-1
9. Mitchell, D., Mousley, A., Shafto, M., **Cam-CAN**, Duncan, J. (2023). Neural contributions to reduced fluid intelligence across the adult lifespan. Journal of Neuroscience 43(2): 293-307. doi: 10.1523/JNEUROSCI.0148-22.2022
10. Wu, S., Tyler, L.K., Henson, R.N., Rowe, J.B., **Cam-CAN**, Tsvetanov, K.A. (2022). Cerebral blood flow predicts multiple demand network activity and fluid intelligence across the adult lifespan. Neurobiology of Aging 121: 1-14. doi: 10.1016/j.neurobiolaging.2022.09.006
11. Liu, X., Tyler, L.K., **Cam-CAN**, Rowe, J.B., Tsvetanov, K.A. (2022). Multimodal fusion analysis of functional, cerebrovascular and structural neuroimaging in healthy aging subjects. Human Brain Mapping 43: 5490-5508. doi: 10.1002/hbm.26025
12. Kocagoncu, E., Nesbitt, D., Emery, T., Hughers, L., Henson, R., Rowe, J., **Cam-CAN** (2022). Neurophysiological and brain structural markers of cognitive frailty differ from Alzheimer's disease. Journal of Neuroscience 42(7): 1362–1373. doi: 10.1523/JNEUROSCI.0697-21.2021
13. Tibon, R., Tsevtanov, K.A., Price, D., Nesbitt, D., **Cam-CAN**, Henson, R.N. (2021). Transient neural network dynamics in cognitive ageing. Neurobiology of Aging 105: 217-228. doi: 10.1016/j.neurobiolaging.2021.01.035
14. Tsvetanov, K.A., Henson, R.N.A., Jones, S., Mutsaerts, H-J., Fuhrmann, D., Tyler, L.K., **Cam-CAN**, Rowe, J.B. (2020). The effects of age on resting-state BOLD signal variability is explained by cardiovascular and neurovascular factors. Psychophysiology 58(7): e13714. doi: 0.1111/psyp.13714
15. Liu, K.Y, Kievit, R.A., Tsvetanov, K.A., Betts, M.J., Duzel, E., Rowe, J.B., **Cam-CAN**, Howard, R. & Hammerer, D. (2020). Noradrenergic-dependent functions are associated with age-related locus coeruleus signal intensity differences. Nature Communications 11: 1712. doi: 10.1038/s41467-020-15410-w
16. Bethlehem, R., Paquola, C., Seidlitz, J., Ronan, L., Bernhard, B., **Cam-CAN**, Tsvetanov, K.A. (2020). Dispersion of functional gradients across the adult lifespan. Neuroimage 222: 117299. doi: 10.1016/j.neuroimage.2020.117299

17. Lehmann, B.C.L., Henson, R.N., Geerligs, L., **Cam-CAN**, White, S.R. (2020). Characterising group-level brain connectivity: A framework using Bayesian exponential random graph models. Neuroimage 225: 117480. doi: 10.1016/j.neuroimage.2020.117480
18. Borgeest, G., Henson, R., Shafto, M., Samu, D., **Cam-CAN**, Kievit, R. (2020). Greater lifestyle engagement is associated with healthy cognitive ageing. PLOS ONE 15: e0230077. doi: 10.1371/journal.pone.0230077
19. Strommer, J.M., Davis, S.W., Henson, R.N., Tyler, L.K., **Cam-CAN**, Campbell K.L. (2020). Physical activity predicts population-level age-related differences in frontal white matter. The Journals of Gerontology: Biological Sciences 2: 236–243. doi: 10.1093/gerona/gly220
20. Wolpe, N., Ingram, J.N., Tsvetanov, K.A, Henson, R.N, Wolpert, D.M., **Cam-CAN**, Rowe, J. (2020). Age-related reduction in motor adaptation: brain structural correlates and the role of explicit memory. Neurobiology of Aging 90: 13-23. doi: 10.1016/j.neurobiolaging.2020.02.016
21. Shafto, M.A., Henson, R.N., Matthews, F.E., Taylor, J.R., Emery, T., Erzinclioglu, S., Hanley, C., Rowe, J.B., Cusack, R., Calder, A.J., Marslen-Wilson, W.D., Duncan, J., Dalgleish, T., Brayne, C., **Cam-CAN**, Tyler, L.K. (2019). Cognitive Diversity in a Healthy Aging Cohort: Cross-Domain Cognition in the Cam-CAN Project. Journal of Aging Health 32(9): 1029–1041. doi:10.1177/0898264319878095
22. Schweizer, S., Stretton, J., Van Belle, J., Price, D., Calder, A.J., **Cam-CAN**, Dalgleish, T. (2019). Age-related decline in emotional positivity and emotion regulation in a population-derived cohort. Social Cognitive and Affective Neuroscience 14(6), 623-631. doi: 10.1093/scan/nsz036
23. Bruffaerts, R., Tyler, L.K., Shafto, M., Tsvetanov, K.A., **Cam-CAN**, Clarke, A. (2019). Perceptual and conceptual processing of visual objects across the adult lifespan. Scientific Reports 9: 13771. doi: 10.1038/s41598-019-50254-5
24. Fuhrmann, D., Nesbitt, D., Shafto, M., Rowe, J.B., Price, D., Gadie, A., **Cam-CAN**, Kievit, R.A. (2019). Strong and specific associations between cardiovascular risk factors and white matter micro- and macrostructure in healthy aging. Neurobiology of Aging 74: 46-55. doi: 10.1016/j.neurobiolaging.2018.10.005
25. Liu, K.Y., Acosta-Cabronero, J., Cardenas-Blanco, A., Loane, C., Berry, A,J,, Betts, M.J., Kievit, R.A., Henson, R.N., Duzel, E., **Cam-CAN**, Howard, R., Hammerer, D. (2019). In vivo visualization of age-related differences in the locus coeruleus. Neurobiology of Aging 74: 101-111. doi: 10.1016/j.neurobiolaging.2018.10.014
26. Bardouille, T., Bailey, L. **Cam-CAN** (2019). Evidence for age-related changes in sensorimotor neuromagnetic responses during cued button pressing in a large open-access dataset. Neuroimage 193: 25-34. doi: 10.1016/j.neuroimage.2019.02.065
27. Chan, D., Shafto, M., Kievit, R., Matthews, F., Spink, M., Valenzuela, M., **Cam-CAN**, Henson, R.N. (2018). Lifestyle activities in mid-life contribute to cognitive reserve in late-life, independent of education, occupation and late-life activities. Neurobiology of Aging, 70: 180-183. doi: 10.1016/j.neurobiolaging.2018.06.012.
28. Tsvetanov, K., Ye, Z., Samu, D., Treder, M.S., Wolpe, N., Tyler, L.K., Rowe, J.R., **Cam-CAN** (2018). Activity and connectivity differences underlying inhibitory control across the adult lifespan. Journal of Neuroscience 38: 7887-7900. doi: 10.1523/JNEUROSCI.2919-17.2018
29. Green, E., Bennett, H., Brayne, C., **Cam-CAN**, Matthews, F.E. (2018). Exploring patterns of response across the lifespan: the Cambridge Centre for Ageing and Neuroscience (Cam-CAN) study. BMC Public Health 18: 760. doi: 10.1186/s12889-018-5663-7
30. Wolpe, N., Zhang, J., Nombela, C., Ingram, J.N., Wolpert, D.M., **Cam-CAN**, Rowe, J.B. (2018). Sensory attenuation in Parkinson's disease is related to disease severity and dopamine dose. Scientific Reports 8: 15643. doi: 10.1038/s41598-018-33678-3
31. Geerligs, L, **Cam-CAN**, Campbell, K. L. (2018). Age-related differences in information processing during movie watching. Neurobiology of Aging 72: 106-120. doi: 10.1016/j.neurobiolaging.2018.07.025
32. Liu, K.Y., Acosta-Cabronero, J., Cardenas-Blanco, A., Loane, C Berry, A.J., Betts, M.J., Kievit, R.A., Henson, R.N., Duzel, E., **Cam-CAN**, Howard, R.,Hammerer, D. (2018). In vivo visualization of age-related change in the locus coeruleus. Neurobiology of Aging 17: 101-111. doi: 10.1016/j.neurobiolaging.2018.10.014

33. Mitchell, D. J., **Cam-CAN**, Cusack, R. (2018). Visual short-term memory through the lifespan: Preserved benefits of context and metacognition. Psychology and Aging, 33(5): 841-854. doi: 10.1037/pag0000265
34. Lehmann, B., White, S., Henson, R., **Cam-CAN**, Geerligs, L. (2017). Assessing dynamic functional connectivity in heterogeneous samples. NeuroImage 157: 635-647. doi: 10.1016/j.neuroimage.2017.05.065
35. Schweizer, S., Kievit, R. A., Emery, T., **Cam-CAN**, and Henson, R. N. (2017). Symptoms of Depression in a Large Healthy Population Cohort are related to Subjective Memory Complaints and Memory Performance in Negative Contexts. Psychological Medicine 48(1): 104-114. doi: 10.1017/S0033291717001519
36. Geerligs, L., Tsvetanov, K., **Cam-CAN**, Henson, R.N. (2017). Challenges in measuring individual differences in functional connectivity using fMRI: the case of healthy aging. Human Brain Mapping 38: 4125-4165. doi: 10.1002/hbm.23653
37. Samu, D., Campbell, K., Tsvetanov, K., Shafto, M., **Cam-CAN**, Tyler, L. K. (2017). Preserved cognitive functions with age are determined by domain-dependent shifts in network responsivity. Nature Communications 8: 14743. doi: 10.1038/ncomms14743
38. Gadie, A., Shafto, M., Leng, Y., **Cam-CAN**, Kievit, R. A. (2017). How are age-related differences in sleep quality associated with health outcomes? An epidemiological investigation in a UK cohort of 2406 adults. BMJ Open. 7: e014920. doi:10.1136/bmjopen-2016-014920
39. Taylor, J.R., Williams, N., Cusack, R., Auer, T., Shafto, M.A., Dixon, M., Tyler, L.K., **Cam-CAN**, Henson, R.N. (2017). The Cambridge Centre for Ageing and Neuroscience (Cam-CAN) data repository: Structural and functional MRI, MEG, and cognitive data from a cross-sectional adult lifespan sample. NeuroImage 144, 262-269. doi: 10.1016/j.neuroimage.2015.09.018
40. Wolpe, N., Ingram, J., Tsvetanov, K., Geerligs, L., Kievit, R., Henson, R., Wolpert, D., **Cam-CAN**, Rowe, J. (2016). Ageing increases reliance on sensorimotor prediction through structural and functional differences in frontostriatal circuits. Nature Communications 7:13034. doi: 10.1038/ncomms13034
41. Kievit, R. A., Davis, S. W., Griffiths, J., Correia, M., **Cam-CAN**, Henson, R. N. A. (2016). A watershed model of individual differences in fluid intelligence. Neurophychologia 91: 186-198. doi: 10.1016/j.neuropsychologia.2016.08.008
42. Henson, R.N., Campbell, K.L., Davis, S.W., Taylor, J.R., Emery, T., Erzinclioglu, S., **Cam-CAN**, Kievit, R.A. (2016). Multiple determinants of lifespan memory differences. Scientific Reports 6: 32527 (2016). doi: 10.1038/srep32527
43. Blenkmann, A., Hughes, L.E., Kochen, S., Bekinschtein, T.A., **Cam-CAN**, Rowe, J.B. (2016). Convergent evidence for hierarchical prediction networks from human electrocorticography and magnetoencephalography. Cortex 82: 192-205. doi: 10.1016/j.cortex.2016.05.001
44. Ronan, L., Alexander-Bloch, A. F., Wagstyl, K., Farooqi, S., Brayne, C., Tyler, L. K., **Cam-CAN**, Fletcher, P. C. (2016). Obesity associated with increased brain-age from mid-life. Neurobiology of Ageing 47: 63–70. doi: 10.1016/j.neurobiolaging.2016.07.010
45. Geerligs, L., **Cam-CAN**, Henson, R.N. (2016). Functional connectivity and structural covariance between regions of interest can be measured more accurately using multivariate distance correlation. Neuroimage 135: 16-31. doi: 10.1016/j.neuroimage.2016.04.047
46. Shafto, M. A., James, L. E., Abrams, L., **Cam-CAN**. Tyler, L. K. (2017). Age-Related Increases in Verbal Knowledge Are Not Associated With Word Finding Problems in the Cam-CAN Cohort: What You Know Won't Hurt You. Journals of Gerontology B: Psychological Sciences 72(1): 100-106. DOI: 10.1093/geronb/gbw074
47. Campbell, K. L., Samu, S., Davis, S. W., Geerligs, L., Mustafa, A., **Cam-CAN**, Tyler, L. K. (2016). Robust Resilience of the Frontotemporal Syntax System to Aging. Journal of Neuroscience 36(19): 5214-5227; doi: 10.1523/JNEUROSCI.4561-15.2016
48. Tsvetanov, K. A., Henson, R. N. A., Tyler, L. K., Razi, A., Geerligs, L., Ham, T., Rowe, J., **Cam-CAN** (2016). Extrinsic and intrinsic brain network connectivity maintains cognition across the lifespan despite accelerated decay of regional brain activation. The Journal of Neuroscience 36(11), 3115-3126. doi: 10.1523/JNEUROSCI.2733-15.2016

49. Green, E., Shafto, M. A., Matthews, F. E., **Cam-CAN**, White, S. R. (2015). Adult Lifespan Cognitive Variability in the Cross-Sectional Cam-CAN Cohort. International Journal of Environmental Research and Public Health. 12(12): 15516-15530. doi: 10.3390/ijerph121215003
50. Garyfallidis, E., Brett, M., Amirbekian, B., Rokem, A., Van Der Walt, S., Descoteaux, M., Nimmo-Smith, I., **Dipy contributors** (2014). Dipy, a library for the analysis of diffusion MRI data. Frontiers in neuroinformatics 8: 8. doi: 10.3389/fninf.2014.00008

## Appendix II – Full List of Abstracts in Conference Proceedings

1. Warriam, M.R.P.V., Novello, L., **Henriques, R.N.,** Shemesh, N., Ianuş, A., Feiweier, T., Zacà, D., Jovicich, J. 2026. Towards the Clinical Translation of Human Correlation Tensor Magnetic Resonance Imaging at 3T. ISMRM Diffusion Study Group Trainee Day: 24 Hours of Diffusion Around the World (virtual meeting).
2. Gonçalves, S.I., **Henriques, R.N.,** Gilbert, G., Velasco, C., Shemesh N., 2026. Fast Correlation Tensor Imaging of the Human Brain. 21th European Molecular Imaging Meeting (Ljubljana, SI)
3. Chavarrias, C., Borges, P., **Henriques, R.N.,** Sánchez-Danés, A., Shemesh N., 2026. Cerebellar Fractional Anisotropy changes in a mouse model of Medulloblastoma revealed by DTI. 21th European Molecular Imaging Meeting (Ljubljana, SI)
4. Shad, A., **Henriques, R.N.**, Manzanares, A.R., Filipiak, P., Baete, S., Garyfallidis, E. 2026. Model once, Map all – Moving forward in Diffusion MRI. 2026 ISMRM & ISMRT Annual Meeting (Cape Town, ZA).
5. Sandgaard, A.D., **Henriques, R.N.**, Shemesh, N., Jespersen, S.N. 2026. Time and orientation-dependent transverse relaxation from magnetic susceptibility of realistic white matter microstructure. 2026 ISMRM & ISMRT Annual Meeting (Cape Town, ZA).
6. Warriam, M.R.P.V., Novello, L., **Henriques, R.N.,** Shemesh, N., Ianuş, A., Feiweier, T., Zacà, D., Jovicich, J. 2026. Accelerated Correlation Tensor Imaging of Human Brain Microstructure at 3T for Clinical Translation. 2026 ISMRM & ISMRT Annual Meeting (Cape Town, ZA).
7. Fritz, F.J., Sura, N., Lüthi, N., **Henriques, R.N.,** Chavarrias, C., Ohana, O., Edwards, L.K., Pine, K., Shemesh, N., Kirilina, E., Weiskopf, N., Sauvigny, T., Mohammadi, S. 2026. Impact of MRI resolution, field strength, and quantitative parameters on lesion-characterization in sclerotic hippocampus. 2026 ISMRM & ISMRT Annual Meeting (Cape Town, ZA).
8. Lüthi, N., Carstens, J., Fritz, F. J., Sura, N., Chavarrias, C., **Henriques, R.N.,** Sauvigny, T., Shemesh, N., Salditt, T., Mohammadi, S. 2026. 3D multiscale characterization of Quantitative MRI Parameters in a resected human hippocampal tissue using 3D X-ray Phase-Contrast Tomography. 2026 ISMRM & ISMRT Annual Meeting (Cape Town, ZA).
9. Warriam, M.R.P.V., Novello, L., **Henriques, R.N.,** Shemesh, N., Ianuş, A., Feiweier, T., Zacà, D., Jovicich, J. 2025. Threshold PCA denoising outperforms MP-PCA in Correlation Tensor Imaging data of human brain microstructure at 3T. 41$^{th}$ Annual Meeting of the ESMRMB (Marseille, FR)
10. **Henriques, R.N.,** Ianuş, A., Shemesh, N., Simões, R.V. 2025. Correlation Tensor Imaging at 3T for In Vivo Mouse Brain Imaging. 5$^{th}$ Annual Meeting of the ISMRM Iberian Chapter (Barcelona, ES) **(selected for oral presentation).**
11. Alves, M.O., Zamith, J.F., Ianuş, A., **Henriques, R.N.**, Ligneul, C., Simões, R.V. 2025. Translational MRI – Advanced Mouse Neuroimaging. 19$^{th}$ Meeting of the Portuguese Society for Neuroscience (Póvoa de Varzim, PT) **(selected for oral presentation).**
12. Caballero-Insaurriaga, J., Descalço, N., Maia, A., Cotovio, G., Quendera, T., Fonseca, C., Loução, N., **Henriques, R.N.**, Castro-Rodrigues, P., Ruivo, J., Oliveira, J., Barahona-Corrêa, J.B., Oliveira-Maia, A.J., 2025. Neurobiological effects of brain stimulation treatment of obsessive-compulsive disorder. 19$^{th}$ Meeting of the Portuguese Society for Neuroscience (Póvoa de Varzim, PT).
13. Descalço, N., Maia, A., Caballero-Insaurriaga, J., Quendera, T., Fonseca, C., Loução, N., **Henriques, R.N.**, Castro-Rodrigues, P., Ruivo, J., Oliveira, J., Barahona-Corrêa, J.B., Oliveira-Maia, A.J., 2025. Blood C-reactive protein associates with white matter abnormalities in obsessive-compulsive disorder. American Psychiatric Association Annual Meeting (APA 2025, New York, NY, USA).

14. **Henriques, R.N.,** Ianuş, A., Shemesh, N., Simões, R.V. 2025. Correlation Tensor MRI of the Mouse Brain at 3 Tesla. 2025 ISMRM & ISMRT Annual Meeting (Honolulu, USA).
15. **Henriques, R.N.,** Simões, R.V., Carvalho, T., Ianus, A., Jespersen, S.N., Shemesh, N., 2025. Differentiating Glioma Microstructures with Correlation Tensor Imaging. 20th European Molecular Imaging Meeting (Bilbao, ES)
16. Paes-de-Faria, J., Vale-Silva, R., Ianus, A., **Henriques, R.N.,** Simões, R.V., 2025. Advanced Diffusion MRI in the Mouse Brain in vivo at 3 Tesla. 20th European Molecular Imaging Meeting (Bilbao, ES)
17. Villalón-Reina, J.E., Poirier, C., Dell' Acqua, F., Descoteaux, M., Thompson, P.M., **Henriques, R.N.,** 2025. Improving multi-Bingham fitting on the Orientation Distribution Function – characterizing fiber crossing and dispersion simultaneously. ISMRM Workshop on 40 Years of Diffusion: Past, Present & Futures Perspectives (Kyoto, JP)
18. Almeida, R., Ianus, A., Faria, J., **Henriques, R.N.,** Shemesh, N., Simões, R.V., 2024 Harnessing 3 Tesla MRI for advanced microstructural imaging of the mouse brain. 40th Annual Scientific Meeting of the ESMRMB (Barcelona, ES)
19. Bilreiro, C., Fernandes, F.F., Simões, R.V., **Henriques, R.N.**, Chavarrías, C., Ianus, A., Castillo-Martin, M., Carvalho, T., Matos, C., Shemesh, N., 2024. Pancreatic intraepithelial neoplasia revealed noninvasively by diffusion-weighted MRI. 4th Annual Meeting of the ISMRM Iberian Chapter (Porto, PT) **(selected for oral presentation)**
20. Simões, R.V., **Henriques, R.N.**, Fernandes, F.F., Monteiro, M.A.V., Carvalho, T., Shemesh, N. 2024. Dynamic Glucose-Enhanced Deuterium Metabolic Imaging of Mouse Glioblastoma Reveals their Heterogeneity in vivo. 4th Annual Meeting of the ISMRM Iberian Chapter (Porto, PT) **(Cum Laude Award)**
21. Raykov, P., **Henriques, R.N.**, Tsvetanov, K., Cam-CAN, Correia, M.M., Henson, R., 2024. Which white matter measures best predict processing speed and intelligence in healthy aging? 30h Annual Meeting of the OHBM (Seoul, Korea)
22. **Henriques, R.N.,** Alves, R., Ianuş, A., Jespersen, S.N., Shemesh N., 2024. Correlation Tensor MRI Directional Metrics in Stroke Improve Lesion Characterization. 19th European Molecular Imaging Meeting (Porto, PT)
23. Simões, R.V., **Henriques, R.N.**, Fernandes, F.F., Monteiro, M.A.V., Carvalho, T., Shemesh, N., 2024. Dynamic Glucose-Enhanced Deuterium Metabolic Imaging (DGE-DMI) of Mouse Glioblastoma Subtypes Reveals their Heterogeneity in vivo. 19th European Molecular Imaging Meeting (Porto, PT)
24. Villalón-Reina, J.E., Nir, T.M., Nourollahimoghadam, E., Jahanshad, N., Thompson, P.M., **Henriques, R.N.,** 2023. Computing Fiber Orientation Dispersion from Single shell Diffusion MRI. 29th Annual Meeting of the OHBM (Montréal, CA)
25. **Henriques, R.N.**, Simões, R.V., Monteiro, S., Ianuş, A., Carvalho, T., Jespersen, S.N., Shemesh N., 2023. Correlation Tensor Imaging Enhances Histological Differences Between Mouse Glioblastoma Subtypes. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA)
26. Simões, R.V., **Henriques, R.N.**, Olesen, J.V., Cardoso, B.M., Fernandes, F.F., Carvalho, T., Jespersen, S.N., Shemesh N., 2023. Probing Tumor Heterogeneity in Mouse Glioblastoma with Dynamic Glucose-Enhanced Deuterium Metabolic Imaging. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA) **(selected for oral presentation)**
27. Ianus, A., Palombo, M., Simões, R.V., **Henriques, R.N.**, Carvalho, T., Shemesh N., 2023. Soma and Neurite Density Imaging (SANDI) characterizes microscopic differences between two glioma mouse model subtypes. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA) **(selected for oral presentation)**
28. Jespersen, S.N., Alves, R., Olesen, J.V., **Henriques, R.N.**, Shemesh N., 2023. Exchange-driven Microscopic Kurtosis in Correlation Tensor MRI. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA) **(selected for oral presentation)**
29. Alves, R., **Henriques, R.N.**, Olesen, J.V., Jespersen, S.N., Shemesh N., 2023. Mapping biophysical changes in stroked tissue via the Standard Model with Exchange (SMEX) diffusion model. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA)

30. Slator, P.J., Simões, R.V., **Henriques, R.N.**, Carvalho, T., Alexander, D.C., Shemesh, N., Ianus, A., 2023. Characterising glioma heterogeneity with diffusion-relaxation MRI and InSpect. 2023 ISMRM & ISMRT Annual Meeting (Toronto, CA)
31. Bilreiro, C., Andrade, L., **Henriques, R.N.**, Loução, N., Shemesh, N., Matos C., 2022. Diffusion tensor imaging and diffusion kurtosis imaging of the pancreas at 3 Tesla MRI – reproducibility and normal findings. 108th Scientific Assembly and Annual meeting Radiological Society of North America 2022 (Chicago, US)
32. **Henriques, R.N.**, Simões, R.V., Monteiro, S., Ianuş, A., Carvalho, T., Jespersen, S.N., Shemesh, N., 2022. Correlation Tensor Imaging Reveals Histologic Differences Between Mouse Glioblastoma Subtypes. ISMRM Workshop on Diffusion MRI: From Research to Clinic (Amsterdam, NL)
33. Alves, R., **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2022. Correlation Tensor MRI Unravels Dynamic Alterations in Underlying Kurtosis Sources Along Stroke Progression. ISMRM Workshop on Diffusion MRI: From Research to Clinic (Amsterdam, NL) **(selected for oral presentation)**
34. **Henriques, R.N.**, Alves, R., Jespersen, S.N., Shemesh, N., 2022. Three-dimensional characterization of diffusion kurtosis sources. 2nd Annual Meeting of the ISMRM Iberian Chapter (Lisbon, PT) **(selected for oral presentation)**
35. Alves, R., **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2022. Correlation Tensor imaging Disentangles Kurtosis Sources along stroke progression. 2nd Annual Meeting of the ISMRM Iberian Chapter (Lisbon, PT) **(selected for oral presentation)**
36. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2022. Hybrid PCA denoising - improving PCA denoising in the presence of spatial correlations. Joint Annual Meeting of the ISMRM-ESMRMB (London, UK) **(Honourable mention at the Reproducibility Study Group)**
37. Simões, R.V., **Henriques, R.N.**, Cardoso, B.M., Fernandes, F., Carvalho, T., Shemesh, N., 2022. Modulation of glucose metabolic fluxes according to tumor cell proliferation in mouse glioblastoma subtypes. Joint Annual Meeting of the ISMRM-ESMRMB (London, UK) **(selected for oral presentation)**
38. Novello, L., **Henriques, R.N.**, Ianus, A., Feiweier, T., Shemesh, N., Jovicich, J., 2022. First templates of human brain kurtosis sources: relevance of microscopic kurtosis from Correlation Tensor MRI at 3 Tesla. Joint Annual Meeting of the ISMRM-ESMRMB (London, UK) **(selected for oral presentation)**
39. Alves, R., **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2022. Correlation Tensor MRI reveals dynamic changes in diffusion kurtosis sources along stroke progression. Joint Annual Meeting of the ISMRM-ESMRMB (London, UK) **(selected for oral presentation)**
40. Alves, R., **Henriques, R.N.**, Kerkelä, L., Chavarrías C., Jespersen, S.N., Shemesh, N., 2021. Dynamics of Diffusion Kurtosis Sources Along Stroke Progression Revealed by Correlation Tensor Imaging Diffusion. ISMRM Diffusion Study Group Trainee Day: 24 Hours of Diffusion Around the World (virtual meeting) **(best poster award)**
41. **Henriques, R.N.**, Jespersen, S.N., Shemesh N., 2021. Evidence for microscopic kurtosis in neural tissue revealed by Correlation Tensor MRI. 1st Annual Meeting of the ISMRM Iberian Chapter (virtual meeting) **(selected for oral presentation, best pre-clinical presentation award)**
42. Alves, R., **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2021. Deciphering the underlying sources of diffusion kurtosis in focal ischemia by Correlation Tensor MRI. 1st Annual Meeting of the ISMRM Iberian Chapter (virtual meeting)
43. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2021. Intra-compartmental kurtosis biases tensor-valued multidimensional diffusion. 2021 Annual Meeting of the ISMRM (virtual meeting)
44. **Henriques, R.N.**, Jespersen, S.N., Jones, D., Veraart, J., 2021. Towards more robust and reproducible Diffusion Kurtosis Imaging. 2021 Annual Meeting of the ISMRM (virtual meeting)
45. **Henriques, R.N.**, Correia, M., Marrale, M., Huber, E., Kruper, J., Koudoro, S., Yeatman, J., Garyfallidis, E., Rokem, A., 2021. Diffusional Kurtosis Imaging in the Diffusion Imaging in Python Project. 2021 Annual Meeting of the ISMRM (virtual meeting)
46. Alves, R., **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2021. Resolving the underlying sources of diffusion kurtosis in focal ischemia by Correlation Tensor MRI. 2021 Annual Meeting of the ISMRM (virtual meeting). **(selected for oral presentation)**

47. Novello, L., **Henriques, R.N.**, Ianus, A., Feiweier, T., Shemesh, N., Jovicich, J., 2021. Human brain in vivo correlation tensor MRI on clinical 3T system. 2021 Annual Meeting of the ISMRM (virtual meeting) **(selected for oral presentation)**
48. Simões, R.V., **Henriques, R.N.**, Cardoso, B.M., Carvalho, T., Shemesh, N., 2021. Glucose oxidation rate as a potential marker for GBM staging: correlation with histopathology and cell proliferation in a mouse model. 2021 Annual Meeting of the ISMRM (virtual meeting) **(selected for oral presentation)**
49. Simões, R.V., **Henriques, R.N.**, Cardoso, B.M., Olesen, J.L., Jespersen, S.N., Shemesh, N., 2021. Non-invasive assessment of glycolytic and oxidative metabolism in mouse glioma using DGE 2H-MRS. 2021 Annual Meeting of the ISMRM (virtual meeting)
50. Alves, R., **Henriques, R.N.**, Shemesh, N., 2021. Improving Stroke Detection with Correlation Tensor MRI. The Brain Conference "Brain Stroke: Why, how, and hope", Federation of European Neuroscience Societies (Rungstedgaard, DK).
51. Alves, R., **Henriques, R.N.**, Shemesh, N., 2020. Mapping Microstructural Dynamics in a Mouse Stroke Model Using Diffusion MRI. iMed 12.0 Conference (Lisbon, PT).
52. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2020. Correlation Tensor Imaging - resolving non-Gaussian diffusion sources of in vivo tissues. 2020 Annual Meeting of the ISMRM (virtual meeting) **(selected for oral presentation, Summa Cum Laude Merit Award)**
53. **Henriques, R.N.**, Olesen, J.L., Jespersen, S.N., Shemesh, N., 2020. Measuring the full diffusional intra- and inter-compartmental kurtosis tensors using double diffusion encoding. 2020 Annual Meeting of the ISMRM (virtual meeting) **(selected for oral presentation, Magna Cum Laude Merit Award)**
54. Golub, M., **Henriques, R.N.**, Nunes, R.G., 2020. Lesion detection using Free-Water elimination DTI – is this technique really specific to free water? 2020 Annual Meeting of the ISMRM (virtual meeting)
55. Grilo, J.M., Golub, M., Reimão, S., **Henriques, R.N.**, Fouto, A., Lobo, P.P., Fabbri, M., Ferreira, J.J., Nunes, R.G., 2020. Substantia nigra changes in Parkinson's Disease: correlation between Neuromelanin contrast and Free Water fraction. 2020 Annual Meeting of the ISMRM (virtual meeting)
56. **Henriques, R.N.**, Tax, C.M.W., Shemesh, N., Veraart, J., 2019. Biophysical modeling of the white matter: from theory towards clinical practice. 27th Annual Meeting of the ISMRM (Montréal, CA) **(selected for oral presentation)**
57. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2019. The two-compartment diffusion "standard model" misestimates microscopic anisotropy in-vivo. 27th Annual Meeting of the ISMRM (Montréal, CA) **(selected for oral presentation)**
58. Duarte, T., **Henriques, R.N.**, Nunes, D., Zeiler, S.R., Krakauer, J.W., Shemesh, N., 2019. Learning-induced microstructural changes in specific layers of primary motor cortex revealed by diffusion kurtosis tensor imaging. 27th Annual Meeting of the ISMRM (Montréal, CA) **(selected for oral presentation)**
59. **Henriques, R.N.**, Jespersen, S.N., Shemesh, N., 2019. Correlation-tensor imaging: resolving different sources of non-Gaussian diffusion. 27th Annual Meeting of the ISMRM (Montréal, CA)
60. Kerkelä, L., **Henriques, R.N.**, Hall, M., Clark, C., Shemesh, N., 2019. Experimental validation and SNR analysis of a clinical double diffusion encoding sequence. 27th Annual Meeting of the ISMRM (Montréal, CA)
61. Kerkelä, L., **Henriques, R.N.**, Hall, M., Shemesh, N., Clark, C., 2019. Precision of microscopic fractional anisotropy estimation using double diffusion encoding. 27th Annual Meeting of the ISMRM (Montréal, CA)
62. Simões, R.V., Caja-Galán, S., **Henriques, R.N.**, Costa-Silva, B., Shemesh, N., 2019. Detection of pre-metastatic niches in perfused mouse livers by diffusion-weighted imaging at ultra-high field. 27th Annual Meeting of the ISMRM (Montréal, CA)
63. Yon, M., Bao, Q, **Henriques, R.N.**, Shemesh, N., Frydman, L., 2019. Spatiotemporal Encoding (SPEN) at ultra-high fields: Applications to high resolution (<100 μm isotropic) in vivo mouse brain DTI. 27th Annual Meeting of the ISMRM (Montréal, CA)
64. Veraart, J., **Henriques, R.N.,** 2019. Promoting the clinical applicability of Diffusion Kurtosis Imaging. 25th Annual Meeting of the OHBM (Rome, IT)

65. Golub, M., **Henriques, R.N.,** Pasternak, O., Nunes, R.G. 2019. Open-source algorithm for single-shell free water DTI: potentials and limitations. 25th Annual Meeting of the OHBM (Rome, IT)
66. **Henriques, R.N.**, Shemesh, N., 2018. Validity Regimes of the Spherical Mean Technique. Joint Annual Meeting of the ISMRM-ESMRMB (Paris, FR) **(selected for oral presentation)**
67. **Henriques, R.N.,** Correia, M.M., 2018. PCA denoising using random matrix theory provides an optimal compromise between noise suppression and preservation of non-Gaussian diffusion. Joint Annual Meeting of the ISMRM-ESMRMB (Paris, FR)
68. **Henriques, R.N.**, Correia, M.M., 2017. Interpreting age-related changes based on the mean signal diffusion kurtosis. 25th Annual Meeting of the ISMRM (Honolulu, US) **(selected for oral presentation, Magna Cum Laude Award)**
69. **Henriques, R.N.**, Bergmann, Ø., Rokem, A., Pasternak, O., Correia, M.M., 2017. Exploring the potentials and limitations of improved free-water elimination DTI techniques. 25th Annual Meeting of the ISMRM (Honolulu, US) **(ISMRM Diffusion Study group best poster award)**
70. Rokem, A., Huber, L., Mehta, P., **Henriques, R.N.**, Balazinska, M., Yeatman, J., 2016. Diffusion Kurtosis Imaging for the Human Connectome Project. Annual Meeting of the Society for Neuroscience (San Diego, US)
71. **Henriques, R.N.**, Correia, M.M., Dell'Acqua, F., 2016. Tract specific measures from the fODF – a way to characterize simultaneously fiber crossing and dispersion. ISMRM's Workshop on Breaking the Barriers of Diffusion MRI (Lisbon, PT) (**Guarantors of Brain Travel Grant**)
72. **Henriques, R.N.**, CamCAN, Correia, M.M., 2016. Reducing inter and intravolume instabilities on diffusion-weighted data for ageing studies. 22nd Annual Meeting of the OHBM (Geneva, CH)
73. Prince, D., Tyler, L., **Henriques, R.N.**, Campbell, K., Williams, N., Treder, M., Taylor, J., Cam-CAN, Henson, R., 2016. Age-Related Delay in Visual and Auditory Evoked Responses is Mediated by White- and Gray-matter Differences. 22nd Annual Meeting of the OHBM (Geneva, CH)
74. **Henriques, R.N.**, Correia, M.M., Dell'Acqua, F., 2016. Mapping fibre dispersion and tract specific metrics in multiple fibre orientations using multi Bingham distributions. 24th Annual Meeting of the ISMRM (Singapore, SG)
75. Loução, R., Elsner, K., Nunes, R.G., **Henriques, R.N.**, Correia, M., Ribeiro, A., Ferreira, H.A., 2016. Effects of the Number of Diffusion Directions in Diffusion Kurtosis Imaging: a Structural Connectivity Study using in vivo data. 24th Annual Meeting of the ISMRM (Singapore, SG)
76. **Henriques, R.N.**, Lacerda, L., Dell'Acqua, F., Correia, M.M., 2015. Fiber direction estimates on diffusion MRI multi-shell protocols -comparison of the performances of DTI, DKI and Richardson-Lucy SD based tractography. 32nd Annual Meeting of the ESMRMB (Edinburgh, UK) **(selected for oral presentation)**
77. **Henriques, R.N.**, Ferreira, H.A., Correia, M.M., 2015. United Diffusion Kurtosis Imaging Toolbox. 32nd Annual Meeting of the ESMRMB (Edinburgh, UK) **(best software abstract)**
78. Loução, R., Nunes, R.G., **Henriques, R.N.**, Correia, M., Santos Ribeiro, A., Ferreira, H.A., 2015. Structural Connectivity based on Diffusion Kurtosis Imaging. 32nd Annual Meeting of the ESMRMB (Edinburgh, UK)
79. **Henriques, R.N.**, Correia, M.M., Nunes, R.G., Ferreira, H.A., 2015. Resolving crossing fibers and generalizing biomarkers using the diffusion kurtosis tensor. 23rd Annual Meeting of the ISMRM (Toronto, CA) **(selected for oral presentation)**
80. **Henriques, R.N.**, Correia, M.M., Nunes, R.G., Ferreira, H.A., 2014. Diffusion Kurtosis Imaging based Tractography. Joint Annual Meeting of the ISMRM-ESMRMB (Milan, IT)
81. Lacerda, L. M., Ribeiro, A. S., da Silva, N.A., **Henriques, R.N.**, Ferreira, H.A., 2014. Multimodal Imaging Brain Connectivity Analysis Toolbox. Joint Annual Meeting of the ISMRM-ESMRMB (Milan, IT)
82. **Henriques, R.N.**, Correia, M.M., Nunes, R.G., Ramalho, J., Ferreira, H.A., 2013. Advances on Multi-Compartment Model Simulations to Interpret the 3D Geometry of Diffusion Kurtosis. 19th Annual Meeting of the OHBM (Seattle, US)
83. **Henriques, R.N.**, Correia, M.M., CamCAN, 2012. Towards optimization of diffusion kurtosis imaging to study brain changes with age. 29th Annual Scientific Meeting of the ESMRMB (Lisbon, PT)
84. Terband, H., Van Brenk, F., **Henriques, R.N.**, van Lieshout, P., Maassen, B. &, Lowit, A., 2012. Speech rate strategies in younger and older adults, Motor Speech Conference (Brussels, BE)

85. Ribeiro, A., Fernandes, C., Salvado, D., Lacerda, L., Costa, M., **Henriques, R.N.**, Evans, G., Almeida, P., Ferreira, H., 2011. Combined use of Electrocardiography and Accelerometry to evaluate the physical condition of a subject, Conference on Electronics Telecommunications and Computers (Lisbon, PT)
86. **Henriques, R.N.**, van Lieshout, P., 2011. A Comparison of Methods for Decoupling Tongues and Lips from Jaw Movements in 3D Articulography, 6th International Conference on Speech Motor Control (Groningen, NL)