

FRANCESCO GRUSSU

CONTACT INFORMATION

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EDUCATION AND TRAINING

*Observer
Researcher* Sept.-Nov. 2017 New York University (NYU), USA
Affiliation: Dept. of Radiology, NYU Langone Medical Center.
Training: advanced denoising techniques for diffusion MRI.

*PhD in MR
Physics* 2012-2016 University College London (UCL), UK
Information: viva passed with no corrections on 15th/03/2016; thesis entitled
"Microstructural imaging of the human spinal cord with advanced diffusion MRI"

*Master's Degree in
Bioengineering* 2010-2012 University of Genoa, Italy
Mark: 110 out of 110 cum laude & Dignita' di Stampa (Examination Panel award).
Dissertation: *"A study on a bidirectional brain-machine interface inspired by the corticospinal control of movement"*.

*Bachelor's Degree
in Biomedical
Engineering* 2006-2009 University of Cagliari, Italy
Mark: 110 out of 110 cum laude.
Dissertation: *"Real time wavelet denoising on a DSP of neural signals coming from the peripheral nervous system"*.

WORK EXPERIENCE

*Vall d'Hebron
Institute of
Oncology* Oct.2020-present Postdoctoral Researcher, VHIO — BARCELONA
Affiliations: Radiomics Group, Clinical Research Department.
Responsibilities: development of MRI-Radiomics signatures of cancer.

*University College
London* Sep.2020-Sep.22 Honorary Senior Fellow, UCL — LONDON, UK
Affiliations: Queen Square Institute of Neurology.
Responsibilities: collaborator in MRI development in multiple sclerosis.

*University College
London* Feb.2016-Sept.20 Research Associate, UCL — LONDON, UK
Affiliations: Institute of Neurology; Centre for Medical Image Computing.
Responsibilities: quantitative MRI development (spinal cord, brain, prostate).

Flickteck Ltd Oct. '14; Jan. '17 Scientific Advisor, FLICKTECK — LONDON, UK
Responsibilities: design of wearable human-machine interfaces.

*Queen Mary Univ.
of London* May-June 2012 Research Assistant, QMUL — LONDON, UK
Affiliation: School of Electronic Engineering and Computer Science (EECS).
Responsibilities: image segmentation (Computed Tomography Angiography).

IMPACT STATS

<i>h-index</i>	Google Scholar h-index on 24/10/2020: 9
<i>i10-index</i>	Google Scholar i10-index on 24/10/2020: 9
<i>Citations</i>	Total Google Scholar citations on 24/10/2020: 479
<i>Profiles</i>	ORCID: 0000-0002-0945-3909 (link). Google Scholar: Francesco Grussu (link).

SCIENTIFIC ARTICLES — FIRST AUTHORSHIP

<i>NeuroImage</i> 2020	"Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising". Grussu F et al. <i>NeuroImage</i> (2020), 217: 116884.
<i>MRM</i> 2019	"Relevance of time-dependence for clinically viable diffusion imaging of the spinal cord". Grussu F et al. <i>Magnetic Resonance in Medicine</i> (2019), 81(2): 1247-1264.
<i>ACTN</i> 2017	"Neurite dispersion: a new marker of multiple sclerosis spinal cord pathology?". Grussu F et al. <i>Annals of Clinical and Translational Neurology</i> (2017), 4(9):663-679. Paper featured in Nature Reviews Neurology "Research Highlights" (Patel M, <i>Nat Rev Neur</i> (2017), 13(10): 578).
<i>J Neurosci Meth</i> 2016	"A framework for optimal whole-sample histological quantification of neurite orientation dispersion in the human spinal cord". Grussu F et al. <i>Journal of Neuroscience Methods</i> (2016), 273:20-32.
<i>NeuroImage</i> 2015	"Neurite orientation dispersion and density imaging of the healthy cervical spinal cord in vivo". Grussu F et al. <i>NeuroImage</i> (2015), 111:590-601.

SCIENTIFIC ARTICLES — CO-AUTHORSHIP

<i>NeuroImage</i> 2021	"Uncertainty modelling in deep learning for safer neuroimage enhancement: demonstration in diffusion MRI". Tanno R, et al. <i>NeuroImage</i> (2021), 225: 117366.
<i>NeuroImage</i> 2020	"Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results". Ning L, Bonet-Carne E, Grussu F et al. <i>NeuroImage</i> (2020), 221: 117128.
<i>MSJ</i> 2020	"A multi-shell multi-tissue diffusion study of brain connectivity in early multiple sclerosis". Tur C, Grussu F et al. <i>Multiple Sclerosis Journal</i> (2019), 26(7): 774-785.
<i>NeuroImage</i> 2020	"Generalised boundary shift integral for longitudinal assessment of spinal cord atrophy". Prados F et al. <i>NeuroImage</i> (2020), 209: 116489.
<i>MRM</i> 2019	"Fast bound pool fraction mapping via steady-state magnetization transfer saturation using single-shot EPI". Battiston M et al. <i>Magnetic Resonance in Medicine</i> (2019), 82:1025-1040.
<i>MSJ</i> 2019	"Reduced neurite density in the brain and cervical spinal cord in relapsing–remitting multiple sclerosis: A NODDI study". Collorone S, Cowley N, Grussu F et al. <i>Multiple Sclerosis Journal</i> (2019, DOI: 10.1177/1352458519885107, online ahead of print).
<i>NeuroImage</i> 2019	"Cross-scanner and cross-protocol diffusion MRI data harmonisation: a benchmark database and evaluation of algorithms". Tax CMW, Grussu F et al. <i>NeuroImage</i> (2019), 195:285-299.
<i>Sci Rep</i> 2018	"Structural cortical network reorganization associated with early conversion to multiple sclerosis". Tur C et al. <i>Scientific Reports</i> (2018), 8:10715.
<i>MRM</i> 2018b	"An optimized framework for quantitative magnetization transfer imaging of the

cervical spinal cord in vivo". Battiston M, Grussu F et al. *Magnetic Resonance in Medicine* (2018) 79(5): 2576-2588).

- MRM 2018a "Fast and reproducible in vivo T₁ mapping of the human cervical spinal cord". Battiston M et al. *Magnetic Resonance in Medicine* (2018), 79(4):2142-2148.
- NeuroImage 2017 "Spinal cord grey matter segmentation challenge". Prados F et al. *NeuroImage* (2017), 152:312-329.
- PlosOne 2016 "Reduced field-of-view diffusion-weighted imaging of the lumbosacral enlargement: a pilot in vivo study of the healthy spinal cord at 3T". Yiannakas MC, Grussu F et al. *PlosOne* (2016), 11(10):e0164890.

BOOK WRITING — PEER-REVIEWED CHAPTERS

- CDMRI 2020 "Deep learning model fitting for diffusion-relaxometry: a comparative study". Grussu F et al. Proc of CDMRI 2020 (accepted, in production). Preliminary results available as a preprint: Grussu F et al, biorxiv 2020, <https://doi.org/10.1101/2020.10.20.347625>.
- CDMRI 2019 "Multidimensional Diffusion (MUDI) Challenge". Pizzolato M et al. Proceedings of the 2019 MICCAI workshop on Computational Diffusion MRI (CDMRI) (in production).
- CDMRI 2018 "Multi-shell diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results". Ning L et al. Proceedings of the 2018 MICCAI workshop on Computational Diffusion MRI (CDMRI), 217-224.
- CDMRI 2018 "Spatial characterisation of fibre response functions for spherical deconvolution in multiple sclerosis". Tur C, Grussu F et al. Proceedings of the 2018 MICCAI workshop on Computational Diffusion MRI (CDMRI), 265-279.
- qMRI 2018 Chapter 8: "D — the diffusion of water (DTI)". Grussu F and Wheeler-Kingshott CAM. "Quantitative MRI of the brain" (2nd edition, 2018), Cercignani M, Dowell N and Tofts P editors. ISBN 978-1-138-03285-9, DOI: 10.1201/b21837.
- MICCAI 2016 "Bayesian image quality transfer". Tanno R et al. Proceedings of Medical Image Computing and Computing Assisted Intervention (MICCAI) 2016, 265-273.

BOOK EDITING

- CDMRI 2018 "Computational Diffusion MRI". Bonet-Carne E, Grussu F, Ning L, Sepehrband F and Tax C editors. Proc. of 2018 MICCAI Workshop on "Computational Diffusion MRI", Granada, Spain, 20/09/2018. ISBN: 978-3-030-05830-2
- CDMRI 2017 "Computational Diffusion MRI". Kaden E, Grussu F, Ning L, Tax C and Veraart J editors. Proc. of 2017 MICCAI Workshop on "Computational Diffusion MRI", Quebec City, Canada, 10/09/2017. ISBN: 978-3-319-73839-0

INVITED ORAL COMMUNICATIONS

- BIC ISMRM 2020 "SARDU-Net: a new method for model-free, data-driven experiment design in qMRI". ISMRM British and Irish Chapter post-grad virtual meeting, 17/09/2020.
- University of Verona 2019 "Diffusion MRI data harmonisation". 2019 School on Brain Connectomics, University of Verona (Italy), 24/09/2019.
- UCL workshop 2019 "Insight on spinal cord microstructure from time-dependent diffusion". Spinal cord MRI workshop, UCL (UK), 21/01/2019.
- ISMRM Italian Chapter 2018 "Axonal dispersion from diffusion MRI: a new marker of microstructural damage". Italian Association for Magnetic Res. in Medicine, Padua (Italy), 10/05/2018.

King's College London 2018	"Microstructural imaging of the human spinal cord: insights from in vivo and ex vivo data". Inst. of Psychiatry, Psychology and Neuroscience, KCL (UK) 19/03/2018.
UCL workshop 2018	"Histological validation of neurite dispersion from diffusion MRI in MS". Mult. sclerosis: translating eng. innovation into the clinic, UCL (UK) 31/01/2018.
Polytechnique Montreal 2017	"Advanced microstructural imaging in the human spinal cord". NeuroPoly Lab seminar, Montreal (Canada), 16/11/2017.
New York University 2017	"Quantitative MRI of the spinal cord: challenges, feasibility and future perspectives". Department of Radiology, NY City (USA), 13/10/2017.
University of Cagliari 2015	"Advanced diffusion-weighted MRI of the human spinal cord: feasibility and future directions in multiple sclerosis". Fac. of Engineering, Cagliari (Italy), 24/07/2015.
Spinal Cord MRI Workshop 2015	"Histological validation of quantitative MRI methods". 2nd Spinal Cord MRI Workshop, Toronto (Canada), 06/06/2015.

TEACHING EXPERIENCE & SUPERVISION

UCL '19-'20, '17-'18, '16-'17, '15-'16	Lecture: "Image optimisation: SNR, CNR and sources of artifacts". Degree: MSc in "Advanced neuroimaging", Institute of Neurology.
UCL 2018-2019	Project co-supervision: "Improving the differential diagnosis between Neuromyelitis Optica Spectrum Disorder and Multiple Sclerosis using MRI". Degree: MRes in "Clinical Neuroscience", Institute of Neurology.
UCL 2018-2019	Project co-supervision: "Evaluation of quantitative MRI indices reproducibility across scanner upgrade". Degree: MSc in "Advanced neuroimaging", Institute of Neurology.
UCL 2017-2018	Project co-supervision: "Investigation of multi-component T1 relaxation at 3 Tesla". Degree: MSc in "Advanced neuroimaging", Institute of Neurology.
UCL 2017-2018, '16-'17, '15-'16	Workshop: Hands-on with a portable MRI scanner (link to device). Degree: MSc in "Advanced neuroimaging", Institute of Neurology.
UniPV 2016-2017	Workshop: "Model fitting for quantitative MRI". Degree: MEng in "Biomedical Engineering", University of Pavia.
UCL 2015-2016	Project co-supervision: "Evaluation of strategies for co-registration between quantitative and anatomical magnetic resonance images of the human spinal cord". Degree: MSc in "Advanced neuroimaging", Institute of Neurology.
UCL 2015-2016	Lecture: "Magnetic resonance image formation". Degree: MSc in "Advanced biomedical imaging", Centre for Advanced Biomedical Imaging.

ORGANISATION OF SCIENTIFIC EVENTS

MIS ISMRM 2020	Member Initiated Symposium at ISMRM 2020: "Looking Beyond Axons: Imaging the Immune System in White Matter", accepted, postponed to 2021. Organisers: Cohen-Adad J, Grussu F, Kolind S.
WMSG ISMRM 2019	ISMRM White Matter Study Group Virtual meeting: "Myelin Imaging in the Spinal Cord at High Field", 27/06/2019, joint meeting with the High-field Study Group. Organiser: Grussu F. Chair: Cohen-Adad J.
MIS ISMRM 2019	Member Initiated Symposium at ISMRM 2019: "Completing the Circle: Moving Multi-Parametric Neuro MRI into Clinical Practice and Trials", 15/05/2019. Organisers: Vrenken H, Cohen-Adad J, Grussu F.
CDMRI 2018	MICCAI Workshop: Computational Diffusion MRI (CDMRI) 2018 (Granada,

scheduled for 20/09/2018). **Organisers:** Bonet-Carne E (UCL), Grussu F (UCL), Ning L (Harvard), Sepehrband F (USC), Tax C (Cardiff University).

*MUSHAC
Challenge 2018*

MICCAI Challenge: Multi-shell dMRI harmonisation and enhancement (MUSHAC, part of CDMRI 2018). **Organisers:** Bonet-Carne E (UCL), Grussu F (UCL), Ning L (Harvard), Sepehrband F (USC), Tax C (Cardiff University).

CDMRI 2017

MICCAI Workshop: Computational Diffusion MRI (CDMRI) 2017 (Quebec City, 10/09/2017). **Organisers:** Grussu F (UCL), Kaden E (UCL), Ning L (Harvard), Tax C (Cardiff University), Veraart J (NYU).

*Data
Harmonisation
Challenge 2017*

MICCAI Challenge: Diffusion MRI data harmonisation (part of CDMRI 2017). **Organisers:** Grussu F (UCL), Kaden E (UCL), Ning L (Harvard), Tax C (Cardiff University), Veraart J (NYU).

*Spinal Cord MRI
Workshop 2016*

Workshop: 3rd Spinal Cord MRI Workshop, Singapore, 13/05/2016. **Organisers:** Cohen-Adad J & De Leener B (Polytechnique Montreal), Grussu F & Prados F (UCL), Summers P (University of Modena).

*Spinal Cord Grey
Matter
Segmentation
Challenge 2016*

Challenge: Grey Matter Segmentation: What's there and What's next? (part of SC MRI Workshop 2016). **Organisers:** Cohen-Adad J, Prados F, Landman B, Wheeler-Kingshott C, Summers P, Dupont S, Yiannakas M, Smith S, Gergely D, DeLeener B, Grussu F.

SCIENTIFIC PEER REVIEWING

2016-present

Invited reviewer for Bipolar Disorders, 2019 MICCAI CDMRI workshop, Functional Neurology, Frontiers, Human Brain Mapping, 2019 ISMRM annual meeting, Journal of Magnetic Resonance Imaging, Journal of Neuroscience Methods, Magnetic Resonance in Medicine, NeuroImage.

AWARDED FUNDING

2020

UCL Dept. of neuroinflammation travel grant funding attendance at the 2020 ISMRM meeting (GBP 400) – awarded for April 2020, unused.

2017

UCL CMIC *Pump-priming Award: "Enabling multi-site high precision spinal cord MRI"*. **Fund:** GBP 23 900, including GBP 3500 for a research visit at NYU.

2016

ISMRM Trainee Stipend for attendance at ISMRM workshop *"Breaking the barriers of Diffusion MRI* (waived registration fees)".

2015, 2016

UCL School of Life and Medical Sciences Travel Grant funding the attendance at the 2015 (GBP 800) and 2016 (GBP 940) ISMRM meetings.

2015

ECTRIMS Travel Grant funding the attendance at the 2015 ECTRIMS meeting in Barcelona (Spain) (EUR 400).

2013, 2015, 2017

Guarantors of Brain Travel Grant funding the attendance at the 2013 (GBP 800), 2015 (GBP 500) and 2017 (GBP 800) ISMRM meetings.

2012-2015

ISMRM Trainee Stipend supporting attendance at the annual meeting (yearly).

2012-2015

UCL Grand Challenge PhD Studentship (GBP 59000).

AWARDS

2020

Merit Award *Magna cum Laude*, abstract (Grussu et al, p.1035, ISMRM 2020).

2020

2nd prize (shared), 2020 ISMRM British and Irish Chapter *"Mansfield Research Innovation Award"* for abstract Grussu F et al, Proc of ISMRM 2020.

2019	1st prize in the “Multi-dimensional Diffusion Imaging” (MUDI) challenge at 2019 CDMRI MICCAI Workshop (Shenzhen, China, 17/10/2019) (Team : Grussu F, Blumberg SB, Ianus A, Mertzanidou T, Alexander DC; Method : SARDU-Net).
2018-2020	Elected trainee representative for the <i>White Matter Study Group</i> of the International Society for Magnetic Resonance in Medicine (ISMRM).
2018 & 2019	“ Distinguished reviewer ” Award for Magnetic Resonance in Medicine, awarded at the 2018 and 2019 ISMRM annual meetings.
2018	Merit Award <i>Magna cum Laude</i> , abstract (Grussu et al, p.466, ISMRM 2018).
2017	Poster short-listed for presentation at the 2017 ISMRM <i>Diffusion study group</i> (Grussu et al, p.3399, ISMRM 2017).
2017	Merit Award <i>Magna cum Laude</i> , abstract (Grussu et al, p.3399, ISMRM 2017).
2016	Abstract submission among best 5 in the “Validation” session, ISMRM workshop <i>Breaking the barriers of diffusion MRI</i> .
2016	Poster short-listed for presentation at the 2016 ISMRM <i>Diffusion study group</i> (Grussu et al, p.2009, ISMRM 2016).
2015	Young Investigators poster competition finalist (80 selected), European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS) 2015.
2015	Merit Award <i>Magna cum Laude</i> , abstract (Grussu et al, p.0909, ISMRM 2015).
2015	Merit Award <i>Magna cum Laude</i> , abstract (Grussu et al, p.0154, ISMRM 2015).
2013	Council award for best citizens graduating in 2012, Mogoro, Italy (1st prize).
2013	Poster short-listed as a finalist of the 2013 ISMRM <i>White Matter Study Group</i> poster competition.
2012	Award for the 2012 <i>Gruppo Nazionale di Bioingegneria</i> (GNB, i.e. Italian National Bioengineering Group) Master’s Degree thesis prize (Sept. 2012).
2008-2011	Sardinian regional government “ <i>Assegno di Merito</i> ” award (for excellence in Academic Studies, obtained yearly from 2008 to 2011).
2009	Best graduate in Biomedical Engineering of the year, University of Cagliari.

FULLY RELEASED RESEARCH SOFTWARE

	Software freely available in my GitHub page (http://fragrussu.github.io).
2020	qMRI-Net : MRI signal model fitting based on artificial intelligence (link).
2020	SARDU-Net : data-driven, model-free quantitative MRI protocol design (link).
2019	MyRelax : tools for myelin and relaxation MRI analyses (link).
2019	MRIttools : tools for handling and managing research MRI scans (link).
2016	StructureTensorToolbox : tools for analysis of 2D histological images (link).

PUBLIC ENGAGEMENT

2017	“Why to get vaccinated and to avoid dangerous on-line blogs: the scientific method in modern medicine”. Scientific dissemination event, Mòguru, Italy (17/08/2017). Organisers: Grussu F, Tur C, Coccollone E, Broccia S.
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- 2015 Active engagement at *MS Frontiers 2015*, organised by the UK Multiple Sclerosis Society and bringing together researchers and Multiple Sclerosis patients.
- 2013 UCL stall at *Science Uncovered*, annual European researchers' night held at London Science Museum.

CONFERENCE & WORKSHOP PROCEEDINGS: 1ST AUTHORSHIPS

- ISMRM 2020 "*SARDU-Net: a new method for model-free, data-driven experiment design in quantitative MRI*". Grussu F et al. International Society for Magnetic Resonance in Medicine (ISMRM) 2020 (**power-pitch presentation**).
- ISMRM 2019 "*Clinically viable g-ratio imaging with unified readout at 3T: evaluation and comparison*". Grussu F et al. ISMRM 2019 (e-poster presentation).
- ISMRM 2018 "*Magnitude versus complex-valued images for spinal cord diffusion MRI: which one is best?*". Grussu F et al. ISMRM 2018 (oral presentation, **Magna cum Laude** award).
- ISMRM 2018 "*A unified signal readout improves denoising of multi-modal spinal cord MRI*". Grussu F et al. ISMRM 2018 (poster presentation).
- ISMRM 2017 "*Origin of the time dependence of the diffusion-weighted signal in spinal cord white matter*". Grussu F et al. ISMRM 2017 (**oral presentation**).
- ISMRM 2017 "*A unified signal readout for reproducible multimodal characterisation of brain microstructure*". Grussu F et al. ISMRM 2017 (e-poster presentation, **Magna cum Laude** award, finalist at the Diffusion Study Group competition).
- Brain School 2017 "*Whole-brain macromolecular tissue volume mapping: A comparison of imaging readouts at 3 Tesla*". Grussu F et al. School of Brain Cells and Circuits "Camillo Golgi". Frontiers ISBN 978-288945-584-3 (**poster presentation**).
- ISMRM Scientific Workshop 2016 "*Optimal histological quantification of neurite orientation dispersion for the validation of diffusion MRI*". ISMRM Scientific workshop "Breaking the barriers of diffusion MRI" (poster presentation + Power Pitch).
- ISMRM 2016 "*Axon diameter distribution influences diffusion-derived axonal density estimation in the human spinal cord: in silico and in vivo evidence*". Grussu F et al. ISMRM 2016 (poster presentation, finalist at the Diffusion Study Group competition).
- ECTRIMS 2015 "*Quantitative histological validation of NODDI MRI indices of neurite morphology in multiple sclerosis spinal cord*". Grussu F et al. European Committee for Research and Treatment of Multiple Sclerosis (ECTRIMS) 2015 (poster presentation, short-listed for poster prize competition).
- MS Frontiers 2015 "*Histological correlates of NODDI in the multiple sclerosis spinal cord*". Grussu F et al. MS Frontiers 2015, annual scientific meeting of the UK Multiple Sclerosis Society (**oral and poster presentation**).
- ISMRM 2015 "*Quantitative histological correlates of NODDI orientation dispersion estimates in the human spinal cord*". Grussu F et al. ISMRM 2015 (**oral presentation, Magna cum Laude** award).
- ISMRM 2015 "*Histological metrics confirm microstructural characteristics of NODDI indices in multiple sclerosis spinal cord*". Grussu F et al. ISMRM 2015 (**oral presentation, Magna cum Laude** award).
- British Chapter of the ISMRM 2014 "*Characterisation of single-shell NODDI fitting in spinal cord grey and white matter*". Grussu F et al. British Chapter of the ISMRM 2014 (poster presentation).
- ISMRM 2014 "*Neurite orientation dispersion and density imaging of the cervical cord in vivo*". Grussu F et al. ISMRM 2014 (poster presentation).

ISMRM 2014	<i>"Single-shell diffusion MRI NODDI with in vivo cervical cord data"</i> . Grussu F et al. ISMRM 2014 (poster presentation).
ISMRM Scientific Workshop 2013	<i>"In vivo estimation of neuronal orientation dispersion and density of the human spinal cord"</i> . ISMRM Scientific workshop "Multiple sclerosis as a whole-brain disease" (oral presentation).
ISMRM 2013	<i>"Towards spinal cord microstructure mapping with the neurite orientation dispersion and density imaging"</i> . Grussu F et al. ISMRM 2013 (poster presentation, finalist at the White Matter Study Group poster competition).

CONFERENCE & WORKSHOP PROCEEDINGS: LAST AUTHORSHIPS

ISMRM 2019	<i>"Sensitivity of NODDI and two-compartment SMT parameter maps in multiple sclerosis"</i> . Johnson D, ..., and Grussu F. ISMRM 2019 (e-poster presentation).
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CONFERENCE & WORKSHOP PROCEEDINGS: CO-AUTHORSHIPS

ISMRM 2020	<i>"Acquiring and predicting Multi-dimensional Diffusion (MUDI) data: an open challenge"</i> . Pizzolato M et al. ISMRM 2020 (oral presentation).
ISMRM 2020	<i>"QuaSI-MTR (qualitative scans for imaging MTR): deep-learned MTR from routine scans using U-nets"</i> . Ricciardi A et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"Co-electrospun spinal cord phantom for diffusion MRI"</i> . Zhou F et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"A pilot in vivo investigation of peripheral nerve damage in multiple sclerosis using magnetisation transfer ratio"</i> . Yiannakas M et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"Reduced field-of-view multi-shell diffusion-weighted imaging of the sciatic nerve: Application to multiple sclerosis"</i> . Yiannakas M et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"New potential MRI markers of glial scarring and tissue damage in multiple sclerosis spinal cord pathology using diffusion MRI"</i> . Palombo M et al. ISMRM 2020 (power-pitch presentation).
ISMRM 2020	<i>"SENSE reconstruction with simultaneous 2D phase correction and channel-wise noise removal (SPECTRE)"</i> . Powell E et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"Evaluation of quantitative MRI parameters reproducibility across a major scanner upgrade: the example of T1"</i> . Boonsuth R et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"Microstructure changes in secondary progressive multiple sclerosis measured using advanced quantitative MRI of the brain and spine"</i> . Battiston M et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"Shape and Spatial Pattern Analysis through Covariance-based Estimations of MS lesions: the SSPACE-MS study"</i> . Tur C et al. ISMRM 2020 (d-poster presentation).
ISMRM 2020	<i>"Quantitative MRI of the spinal cord: reproducibility and normative values across 40 sites"</i> . Alonso-Ortiz E L et al. ISMRM 2020 (oral presentation).
ISMRM 2019	<i>"Cross-scanner and cross-protocol harmonisation of multi-shell diffusion MRI data: open challenge and evaluation results"</i> . Ning L et al. ISMRM 2019 (oral presentation).
ISMRM 2019	<i>"Bound Pool Fraction mapping via steady-state MT saturation using single-shot EPI"</i> . Battiston M et al. ISMRM 2019 (oral presentation).

ISMRM 2019	<i>"Myelin-sensitive indices in multiple sclerosis: the unseen qualities of qualitative clinical MRI"</i> . Ricciardi A et al. ISMRM 2019 (e-poster presentation).
ECTRIMS 2018	<i>"Neurite Orientation Dispersion and Density Imaging (NODDI) and ^{23}Na MRI in clinically isolated syndrome"</i> . Collorone S et al. ECTRIMS 2018 (poster presentation).
ISMRM 2018	<i>"Cross-vendor and cross-protocol harmonisation of diffusion MRI data: a comparative study"</i> . Tax C et al. ISMRM 2018 (oral presentation).
ISMRM 2018	<i>"Consensus acquisition protocol for quantitative MRI of the cervical spinal cord at 3T"</i> . Alley S et al. ISMRM 2018 (oral presentation).
ISMRM 2018	<i>"Biophysically meaningful MRI features for accurate classification of multiple sclerosis phenotypes"</i> . Ricciardi A et al. ISMRM 2018 (poster presentation).
ISMRM 2018	<i>"Acceleration strategies for whole brain quantitative Magnetization Transfer Imaging"</i> . Battiston M et al. ISMRM 2018 (e-poster presentation).
ISMRM 2018	<i>"Are we seeing any better? A comprehensive comparison of myelin biomarkers in the healthy and multiple sclerosis post mortem spinal cord"</i> . Battiston M et al. ISMRM 2018 (oral presentation).
ECTRIMS 2017	<i>"Brain network organisation and cognitive performance in the clinically isolated syndromes"</i> . Ooi J et al. ECTRIMS 2017 (poster presentation).
ECTRIMS 2017	<i>"Application of Neurite Orientation Dispersion and Density Imaging (NODDI) in clinically isolated syndrome (CIS)"</i> . Collorone S et al. ECTRIMS 2017 (poster presentation).
Frontiers 2017	<i>"Investigation of cerebellar microstructure with two-compartment Spherical Mean Technique and T_{1w}/T_{2w} myelin weighting"</i> . Savini G et al. School of Brain Cells & Circuits "Camillo Golgi" (poster presentation; abstract published in Frontiers).
ISMRM 2017	<i>"A ranking of pipelines for optimal co-registration of anatomical and diffusion weighted images of the cervical spinal cord"</i> . Alley S et al. ISMRM 2017 (accepted for Power Pitch oral presentation).
ISMRM 2017	<i>"Diffusion anisotropy in breast cancer tissue corresponds to spatial patterns of collagen alignment from histology"</i> . Bailey C et al. ISMRM 2017 (accepted for Power Pitch oral presentation).
ISMRM 2017	<i>"Boundary shift integral to compute brain and cervical spinal cord longitudinal atrophy on the same 3D T_1 brain images in multiple sclerosis"</i> . Prados F et al. ISMRM 2017 (accepted for oral presentation).
ISMRM 2017	<i>"Impact of acquisition strategies and spherical deconvolution algorithms on brain connectivity mapping in early multiple sclerosis"</i> . Tur C et al. ISMRM 2017 (accepted for oral presentation).
ISMRM 2017	<i>"Quantifying Reconstruction Uncertainty with Image Quality Transfer"</i> . Tanno R et al. ISMRM 2017 (accepted for poster presentation).
ISMRM 2017	<i>"Characterisation of cerebellar microstructure with Spherical Mean Technique"</i> . Savini G et al. ISMRM 2017 (accepted for oral presentation).
ISMRM 2017	<i>"Optimal framework for quantitative magnetization transfer imaging of small structures"</i> . Battiston M et al. ISMRM 2017 (accepted for oral presentation).
ISMRM 2017	<i>"Reproducible fast T_1 mapping of the human cervical spinal cord in vivo"</i> . Battiston M et al. ISMRM 2017 (accepted for poster presentation).
ECTRIMS 2016	<i>"Computing spinal cord atrophy using the boundary shift integral: a more powerful outcome measure for clinical trials?"</i> . Prados F et al. ECTRIMS 2016 (poster presentation).

ECTRIMS 2016	<i>"Neurite orientation dispersion and density imaging (NODDI) of the spinal cord in relapsing remitting multiple sclerosis". Tona F et al. ECTRIMS 2016 (poster presentation).</i>
ECTRIMS 2016	<i>"Neurite orientation dispersion and density imaging (NODDI) reflects early microstructural brain tissue changes in clinically isolated syndrome (CIS)". Collorone S et al. ECTRIMS 2016 (poster presentation).</i>
ECTRIMS 2016	<i>"No differences in spinal cord DTI abnormalities between neuromyelitis optica spectrum disorder and multiple sclerosis". Cortese R et al. ECTRIMS 2016 (poster presentation).</i>
ISMRM 2016	<i>"In vivo quantitative magnetisation transfer in the cervical spinal cord using reduced field-of-view imaging: a feasibility study". Battiston M et al. ISMRM 2016 (oral presentation).</i>
ISMRM 2016	<i>"Reduced field-of-view diffusion-weighted imaging of the lumbosacral enlargement: a pilot in vivo study of the healthy spinal cord using a clinical 3T MR system". Yiannakas M et al. ISMRM 2016 (e-poster presentation).</i>
ISMRM 2016	<i>"Atrophy computation in the spinal cord using the boundary shift integral". Prados F et al. ISMRM 2016 (oral presentation).</i>
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AAN 2016	<i>"Neurite orientation dispersion and density imaging (NODDI) at the onset of clinically isolated syndrome (CIS): new insights in the early microstructural brain tissue changes". Collorone S et al. AAN 2016 (dual presentation).</i>
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