This is a draft version only. Do not submit to any funding organization. Only the final version from the History page can be submitted.

Protected when completed

Dr. Agah Karakuzu

Correspondence language: English
Date of Birth: 9/08
Canadian Residency Status: Permanent Resident
Permanent Residency Start Date: 2024/06/12
Country of Citizenship: Turkey

Contact Information

The primary information is denoted by (*)

Address

Home (*)

[redacted]

Telephone

Mobile (*) [redacted]

Email

Personal (*) [redacted]
Work agah.karakuzu@polymtl.ca

Website

Personal https://agahkarakuzu.github.io

Dr. Agah Karakuzu

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	No	No	Yes	No
Turkish	Yes	Yes	Yes	Yes	Yes

Degrees

2017/1 - 2022/3

Doctorate, Ph.D. in Biomedical Engineering, Reproducible Quantitative MRI for Precision Neuroimaging, École Polytechnique de Montréal
Degree Status: Completed
Thesis Title: Bringing Myelin Imaging Under One Umbrella
Transferred to PhD without completing Masters?: No

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Supervisors: Nikola Stikov, Ph.D., 2017/1 - 2022/3

Fields of Application: Biomedical Aspects of Human Health

2013/9 - 2015/6

Master's Thesis, M.Sc. in Biomedical Engineering, MRI Applications for Musculoskeletal Biomechanics, Bogazici University
Degree Status: Completed
Thesis Title: MRI assessment of local deformations along human medial gastrocnemius muscle fibers on submaximal plantarflexion activity

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Supervisors: Prof. Dr. Can Ali Yucesoy, 2013/9 - 2016/12

Fields of Application: Biomedical Aspects of Human Health

2009/9 - 2013/6

Bachelor's, B.Sc. in Biomedical Engineering, Medical Image Processing, Erciyes University, Turkey
Degree Status: Completed
Thesis Title: A quantitative approach to the volumetric assessment of multipl sclerosis lesions using semi-automatic segmentation of MR images.

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Supervisors: Prof. Dr. Aysegul Guven, 2009/9 - 2013/6

Fields of Application: Biomedical Aspects of Human Health

Recognitions

2024/5 - 2024/5

Summa Cum Laude - ISMRM 2024 Annual Meeting (Canadian dollar)
Distinction
Top 75 abstracts out of 6000

2023/10 - 2023/10

Poster Award - 500 (Canadian dollar)
Union Neurosciences et Intelligence Artificielle - Québec
Prize / Award

Areas of Research: Computer Science and Statistics

2023/6 - 2033/6

ISMRM Junior Fellowship
International Society for Magnetic Resonance in Medicine
Honor
ISMRM Junior Fellow Program has been established to recognize outstanding researchers and clinicians at an early stage in their careers, with an established and long-term commitment to ISMRM.

Areas of Research: Biomedical Technologies

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Fields of Application: Biomedical Aspects of Human Health

2023/6 - 2023/6

ISMRM Quantitative MRI Study Group - The Best Open Source Toolbox Award - 300 (Canadian dollar)
International Society for Magnetic Resonance in Medicine
Prize / Award

Research Disciplines: Biomedical Engineering and Biochemical Engineering

2023/6 - 2023/6

ISMRM Shark Tank Competition - Runner Up Prize - 200 (Canadian dollar)
International Society for Magnetic Resonance in Medicine
Prize / Award

Research Disciplines: Biomedical Engineering and Biochemical Engineering

2023/5 - 2023/5

Plotly Dash Example Apps Challenge - 50 (Canadian dollar)
Plotly Inc.
Prize / Award

Research Disciplines: Computer Engineering and Software Engineering

2023/4 - 2023/4

Meilleure thèse de doctorat pour l'année 2022 - Mention Spéciale - 1,000 (Canadian dollar)
École Polytechnique de Montréal
Prize / Award

Areas of Research: Biomedical Technologies

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Fields of Application: Biomedical Aspects of Human Health

2022/10 - 2022/10

The Neuro - Irv and Helga Cooper Foundation Open Science Prize - 5,000 (Canadian dollar)
Montreal Neurological Institute
Prize / Award
This award recognizes projects, services, tools, and platforms that unlock the power of Open Science in neuroscience to advance research, innovation, and collaboration for the benefit of health and society.

2022/6 - 2022/6

QBIN Open Science Award - 2,000 (Canadian dollar)
Quebec Bio-Imaging Network (QBIN)
Prize / Award
This award, presented by the Quebec Bioimaging Network, recognizes the academic contributions of the recipient, which demonstrate their dedication to advancing the field of bio-imaging through transparency, reproducibility, collaboration, and accessibility for all.

Areas of Research: Biomedical Technologies

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Fields of Application: Biomedical Aspects of Human Health

2022/5 - 2022/5

ISMRM White Matter Study Group - Best Presentation Award - 350 (Canadian dollar)
International Society for Magnetic Resonance in Medicine
Prize / Award
In recognition to develop, apply, and facilitate the translation of MR acquisition and analysis technologies to improve understanding and diagnosis of diseases affecting brain and spinal cord white matter.

Research Disciplines: Biomedical Engineering and Biochemical Engineering

2022/5 - 2022/5

Summa Cum Laude - ISMRM 2022 Annual Meeting
International Society for Magnetic Resonance in Medicine
Distinction
Top 5% among all studies presented at the conference that year (~8000 submissions in 2022).

Research Disciplines: Biomedical Engineering and Biochemical Engineering

2022/5 - 2022/5

ISMRM Reproducible Research Study Group - Best Abstract Award - 300 (Canadian dollar)
International Society for Magnetic Resonance in Medicine
Prize / Award
In recognition to promote and enable the idea that scientific results, claims, and analyses can be published with their data and associated software code in a form that would allow others to reproduce the results and build upon them.

Research Disciplines: Biomedical Engineering and Biochemical Engineering

2021/5 - 2021/5

ISMRM Reproducible Research Study Group Award - 180 (Canadian dollar)
The International Society for Magnetic Resonance in Medicine, CA, USA
Prize / Award
Please see: https://ismrm.github.io/rrsg/mrpub/

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Fields of Application: Biomedical Aspects of Human Health

2021/5 - 2021/5

Innovation in MRI Education by ISMRM (Canadian dollar)
The International Society for Magnetic Resonance in Medicine, CA, USA
Prize / Award
Please see: https://www.ismrm.org/online-education-program/innovation-in-mri-education-award/

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Fields of Application: Biomedical Aspects of Human Health

2019/5 - 2019/5	ISMRM Quantitative MRI Study Group Award - 300 (United States dollar) The International Society for Magnetic Resonance in Medicine, CA, USA Prize / Award This award acknowledges the recipient's contributions to the establishment of MRI measurement standards in partnership with national metrology institutes (NMIs), academic and clinical MR sites, as well as through collaborative efforts with existing study groups. Research Disciplines: Biomedical Engineering and Biochemical Engineering Fields of Application: Biomedical Aspects of Human Health
2018/6 - 2018/6	ISMRM Magnetic Moments Public Engagement Competition, People's Choice Award - 150 (Canadian dollar) The International Society for Magnetic Resonance in Medicine, CA, USA Prize / Award About competition: https://blog.ismrm.org/2018/04/19/magnetic-moments-taking-our-science-to-the-people/ Research Disciplines: Biomedical Engineering and Biochemical Engineering Fields of Application: Biomedical Aspects of Human Health
2016/10 - 2016/10	Prof. Dr. Zeki Korkusuz Biomechanics Research Award, 1st place - 500 (Turkish lira) National Biomechanics Society of Turkey Prize / Award This award acknowledges outstanding contributions to the advancement of musculoskeletal biomechanics research in Turkey through an original work that demonstrates a high level of evidence, is well-designed, well-executed, and thoroughly scrutinized. Research Disciplines: Biomedical Engineering and Biochemical Engineering Fields of Application: Biomedical Aspects of Human Health

User Profile

Researcher Status: Post-doctoral Student
Research Career Start Date: 2013/09/01
Engaged in Clinical Research?: Yes

Key Theory / Methodology: Magnetic Resonance Imaging

Research Interests: Quantitative Magnetic Resonance Imaging Neuroimaging Open-source development Reproducible publishing Musculoskeletal Biomechanics

Research Experience Summary: My research career took off in 2013 with a M.Sc. degree at Bogazici University, a flagship academic institute in Turkey. I developed novel Magnetic Resonance Imaging (MRI) methods to evaluate in-vivo musculoskeletal mechanics in an interdisciplinary research environment, which involved 2 research labs of different expertise and a clinical imaging site. After publishing my M.Sc. thesis, I kept on working with the same research team for 2 more years, which resulted in high impact journal and conference publications. I obtained my PhD from Polytechnique Montreal in 2022. I worked on the standardization of quantitative MRI methods for the imaging of human brain. Developing open-source software and a globally recognized data standard, I established end-to-end MRI workflows that are reproducible from the scanner site to journal publication. This work demonstrated for the first time that open-source and vendor-neutral approach to qMRI significantly improve multicenter reproducibility.

Fields of Application: Biomedical Aspects of Human Health

Disciplines Trained In: Biomedical Engineering and Biochemical Engineering

Technological Applications: Radiology / Imaging

Countries: Canada, Turkey

Areas of Research: Neurodegenerative Diseases

Research Specialization Keywords: quantitative magnetic resonance imaging, open-source software development, data standards, musculoskeletal biomechanics, precision neuroimaging, reproducible research publication, vendor-neutral mri pulse sequences

Research Centres: Other

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Geographical Regions: Central Canada, Near and Middle East

Employment

2023/2	Software developer (part time) Institut universitaire de gériatrie de Montréal https://neurolibre.org
2022/9	Postdoctoral Researcher Biomedical Engineering Institute, Engineering, École Polytechnique de Montréal Full-time Tenure Status: Non Tenure Track
2017/1 - 2022/3	Research Assistant Montreal Heart Institute Full-time Tenure Status: Non Tenure Track
2019/2 - 2019/4	Intern Researcher MRI software development, Vista Inc., Palo Alto, CA https://vista.ai/
2013/9 - 2017/6	Project Research Assistant Biomedical Engineering Institute, Kandilli Campus, Bogazici University Full-time Tenure Status: Non Tenure Track

Affiliations

The primary affiliation is denoted by (*)

(*) 2022/4	Postdoctoral Researcher, Biomedical Engineering Institute, École Polytechnique de Montréal
2017/1 - 2022/3	PhD Student, Biomedical Engineering Institute, École Polytechnique de Montréal Funded by grants available to Dr. Nikola Stikov. Responsibilities include: * Development of vendor-neutral MRI pulse sequences * Development of open-source software for image processing * Development of open-source end-to-end workflows for myelin imaging * Development of a data standard for quantitative MRI * Contributing to cyber-infrastructure of open publishing platforms * Writing and publishing journal and conference articles
2013/9 - 2016/12	Research project assistant, Biomedical Engineering Institute, Bogazici University Funded by grants available to Prof. Dr. Can Ali Yucesoy. Activities included: * Conducted musculoskeletal MRI experiments * Implemented medical image analysis methods * Prepared journal and conference articles * Had a part in intraoperative (clinical research) experiments * Performed volumetric analysis and visualisation onmusculoskeletal MRI data using DT tractographyand image registration methods.

Research Funding History

Awarded [n=3]

2022/12 - 2024/12
Principal Applicant

TransmedTech Postdoctoral Scholarship, Fellowship
Clinical Research Project?: Yes

Funding Sources:

2022/4 - 2024/4 — Institut TransMedTech
Excellence Scholarship
Total Funding - 63,000 (Canadian dollar)
Portion of Funding Received - 50,000 (Canadian dollar)
Funding Competitive?: Yes

2023/2 - 2024/2
Principal Applicant

UNIQUE Excellence Scholarship, Fellowship

Funding Sources:

Fonds de recherche du Québec - Nature et technologies (FRQNT)
Unifying Neuroscience and Artificial Intelligence in Quebec
Total Funding - 20,000 (Canadian dollar)
Portion of Funding Received - 20,000
Funding Competitive?: Yes

2020/3 - 2020/3
Principal Applicant

ISMRM Research Exchange Grant, Grant
Clinical Research Project?: Yes

Funding Sources:

2022/1 - 2023/1 — International Society for Magnetic Resonance in Medicine (ISMRM)
Total Funding - 6,000 (United States dollar)
Portion of Funding Received - 1 (Canadian dollar)
Funding Competitive?: Yes

Completed [n=2]

2019/9 - 2022/3
Principal Applicant

TransMedTech Excellence Scholarship (PhD), Scholarship
Clinical Research Project?: Yes

Research Disciplines: Biomedical Engineering and Biochemical Engineering

Funding Sources:

2018/1 - 2021/1 — Institut TransMedTech
Excellence Scholarship
Total Funding - 40,500 (Canadian dollar)
Portion of Funding Received - 40,500 (Canadian dollar)
Funding Competitive?: Yes

2019/3 - 2020/3
Principal Applicant

Canadian Open Science (CONP) PhD Scholar, Scholarship
Clinical Research Project?: Yes

Funding Sources:

2019/3 - 2020/3 — Canadian Open Neuroscience Platform
CONP PhD Scholarship
Total Funding - 12,500 (Canadian dollar)
Portion of Funding Received - 12,500 (Canadian dollar)
Funding Competitive?: Yes

Declined [n=1]

2017/1 - 2019/1
Principal Applicant

TUBITAK 2213 PhD in Abroad Scholarship, Scholarship
Clinical Research Project?: Yes

Funding Sources:

2017/1 - 2020/1 The Scientific and Technological Research Council of Turkey
PhD Scholarship
Total Funding - 180,000 (United States dollar)
Portion of Funding Received - 1 (United States dollar)
Funding Competitive?: Yes
Funding Reference Number: 2213

Journal Review Activities

2023/5 Reviewer,Scientific Data,Springer Nature
Number of Works Reviewed / Refereed: 2

2023/4 Reviewer,Nature Methods,Springer Nature
Number of Works Reviewed / Refereed: 1

2023/4 Reviewer,NMR in Biomedicine,Wiley
Number of Works Reviewed / Refereed: 5

2019/1 Reviewer,Journal of Open Source Software (JOSS),Open Journals
Number of Works Reviewed / Refereed: 3

2018/1 Reviewer,Magnetic Resonance in Medicine,John Wiley & Sons Inc.
Number of Works Reviewed / Refereed: 4

2018/1 Reviewer,Journal of Magnetic Resonance Imaging,John Wiley & Sons Inc.
Number of Works Reviewed / Refereed: 2

Event Participation

Speaker, ISMRM 27th Annual Meeting & Exhibition, Conference, 2018/5 - 2018/5

Tutor, BrainHack School 2020, Course, 2020/5 - 2020/6
https://school2020.brainhackmtl.org/

Invited speaker, Workshop on MRI Acquisition and Reconstruction, Workshop, 2021/9 - 2021/9
https://mriworkshop.mgh.harvard.edu/

Tutor, BrainHack School 2019, Course, 2019/8 - 2019/8
https://brainhackmtl.github.io/school2019

Attendee, ISMRM 28th Annual Meeting & Exhibition, Conference, 2019/5 - 2019/5

Invited speaker, Open and reproducible neuroimaging: Integration of community developed tools from data acquisition to publication, Workshop
Organized by The Neuroimaging Unit at the University of Oldenburg, Germany.

Invited speaker, Open MR Benelux 2020, Workshop, 2020/1 - 2020/1
Nijmegen, Netherlands https://openmrbenelux.github.io/2020/page-openmrb-2020/

Organizer, MRathon: A Hackathon for MRI professionals, Workshop, 2023/6 - 2023/6
https://mrathon.github.io/toronto2023

Invited speaker, Quebec Bioimaging Network SciComm Series 2021, Workshop, 2021/3 - 2021/4
https://www.rbiq-qbin.qc.ca/article404-SciComm-Seminar-Series-2021

Invited speaker, ISMRM White Matter Study Group Business Meeting 2020, Workshop, 2020/1 - 2020/1
https://www.ismrm.org/20m/2020-study-group-business-meetings/

Invited speaker, 2023 ISMRM & ISMRT Annual Meeting & Exhibition, Conference, 2023/6 - 2023/6

Speaker, XXIe La Journée de la recherche L'Institut de Cardiologie de Montréal, Seminar, 2018/6 - 2018/6

Speaker, SMRM & SMRT Virtual Conference & Exhibition, Conference, 2020/8 - 2020/8

Presenter, XXIVe La Journée de la recherche L'Institut de Cardiologie de Montréal 2022, Conference

Invited speaker, ISMRM Turkish Chapter 3rd Virtual Workshop, Workshop, 2020/11 - 2020/11
https://www.ismrm.org/Chapters/ISMRM_TurkishChapter_Nov_Workshop.pdf

Organizer, MRathon: A Hackathon for MRI professionals, Workshop, 2023/6 - 2023/6
https://mrathon.github.io/toronto2023/

Invited speaker, Cross-invalidation: Quality Conversations webinar series, Seminar, 2021/7 - 2021/9
https://crossinvalidation.com/2021/07/19/announcing-quality-conversations-webinar-series-on-niqc-open-science-etc/

Invited speaker, 2021 ISMRM & SMRT Annual Meeting & Exhibition, Conference, 2021/5 - 2021/5
Virtual conference.

Poster presenter, Quebec Bioimaging Network Annual Scientific Day, Conference, 2018/3 - 2018/3

Award lecturer, Neuro-Gairdner Open Science in Action Symposium, Seminar, 2020/11 - 2020/11
https://www.mcgill.ca/neuro/open-science/open-science-action-symposium

Invited speaker, Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting, Conference, 2022/5 - 2022/5

Invited speaker, Organization for Human Brain Mapping Annual Meeting 2022, Conference, 2022/6 - 2022/6

Attendee, OHBM 2017 Annual Meeting, Conference, 2017/6 - 2017/6

Keynote speaker, 2020 OHBM Annual Meeting, Conference, 2020/6 - 2020/6
https://ohbm.github.io/osr2020/

Tutor, OHBM BrainHack Global 2020, Workshop, 2020/11 - 2020/12
https://brainhack.org/global2020/

Speaker, Joint Annual Meeting ISMRM-ESMRMB 2018, Conference, 2018/6 - 2018/6
Paris Expo Porte de Versailles, Paris, France

Committee Memberships

2023/6	Committee Member, Annual Meeting Programming Committee, International Society for Magnetic Resonance in Medicine
2023/5 - 2023/10	Committee Member, The Neuro Open Science Prize Committee, Montreal Neurological Institute
2023/4 - 2023/6	Committee Member, QBIN Open Science Awards Committee, Quebec Bioimaging Network

Other Memberships

2017/1	Trainee, International Society for Magnetic Resonance in Medicine
2017/1	Trainee, The Organization for Human Brain Mapping

Presentations

1. (2023). MRI Workflows for Measurement: Blackbox, Graybox, & Glassbox Benchmarks on Reproducibility. ISMRM Workshop on Data Sampling & Image Reconstruction, Sedona, United States of America
   Main Audience: Researcher
   Invited?: No, Keynote?: No
2. (2023). Open-science as the foundation of an academic career: An ECR perspective. Tanenbaum Open Science Institute (TOSI) Leadership Meeting, Canada
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No
3. (2022). Open-Science Award Lecture: Transparency from scanner to publication. The Neuro -Irv and Helga Cooper Foundation Award Ceremony, Montreal, Canada
   Invited?: Yes, Keynote?: Yes
4. (2022). Pushing the boundaries of reproducibility for the boundaries of the brain project. Boundaries of the brain hackathon (https://www.um.edu.mt/projects/bob/), Malta
   Invited?: Yes, Keynote?: Yes
5. (2022). Towards comparable MRI: The role of open-source software and community building. OHBM 2022 Annual Meeting Educational Lectures, Glasgow, United Kingdom
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No, Competitive?: No
6. (2022). Improving inter-vendor reproducibility of quantitative MRI. MRI Together by ESMRMB, Germany
   Invited?: Yes, Keynote?: No
7. (2022). Multicenter reproducibility of quantitative MRI using vendor-neutral sequences. 31st Annual Meeting of the ISMRM, London, United Kingdom
   Main Audience: Researcher
   Invited?: No, Keynote?: No, Competitive?: Yes
8. (2021). In search of common ground for myelin imaging. ISMRM Turkish Chapter 3rd Virtual Workshop, Turkey
   Main Audience: Researcher
   Invited?: Yes, Keynote?: No, Competitive?: No

9. (2021). Interactive plots and the spectrum of data visualization. Quebec Bio-imaging Network SciComm Seminar Series, Montreal, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: No

10. (2021). Scientific computing with Python: From acoustic dissonance to magnetic resonance. ISMRM 2021 Annual Meeting, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: Yes

11. (2021). VENUS: Vendor-neutral pulse sequences. Workshop on MRI Acquisition and Reconstruction, United States of America
Invited?: Yes, Keynote?: No, Competitive?: No

12. (2021). Vendor-neutral applications for Quantitative MRI QC. Cross-invalidation: Quality Conversations webinar series, United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: No

13. Nikola Stikov. (2021). Communicating Science Openly. Quebec Bio-imaging Network SciComm Seminar Series, Canada
Invited?: Yes, Keynote?: No, Competitive?: No

14. (2021). Updates from T1 mapping challenge for reproducible research study group. Joint RRSG and qMRI-SG Business Meeting, United States of America
Invited?: Yes, Keynote?: No, Competitive?: No

15. Gilles de Hollander Tibor Auer. (2020). qMRI-BIDS: A BIDS extension for quantitative MRI. OHBM 2020 Annual Meeting (Virtual), Turkey
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No

16. (2020). Thinking outside the black-box: A fully transparent T1 mapping pipeline. ISMRM Annual Meeting (Virtual), United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: Yes

17. Matteo Mancini. (2020). An interactive meta-analysis of MRI biomarkers of myelin. ISMRM White Matter Study Group Business Meeting (Virtual), United States of America
Invited?: Yes, Keynote?: No, Competitive?: No

18. (2020). Divide and Conquer m-scripts. OHBM BrainHack 2020 (Virtual), United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: No

19. (2020). Transparent workflows - From scanner to publication. 2020 OHBM Annual Meeting (Virtual), United States of America
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

20. (2020). And end-to-end solution for reproducible qMRI: Open-source development and vendor-neutrality. Open and reproducible neuroimaging: Integration of community developed tools from data acquisition to publication, Oldenburg, Germany
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes, Competitive?: No

21. (2019). Docker for MRI scientists. Open MR Benelux 2020, Nijmegen, Netherlands
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: No

22. Elizabeth DuPre. (2019). NeuroLibre: A sprout of living publications. Neuro-Gairdner Open Science in Action Symposium, Montreal, Canada
Invited?: Yes, Keynote?: No, Competitive?: No

Publications

Journal Articles

1. A. Karakuzu, A. Arpak, C.A. Yucesoy. (2023). In-vivo along muscle fascicle strain heterogeneity is not affected by image registration parameters: Robustness testing of combined magnetic resonance-diffusion tensor imaging method. Journal of the Mechanical Behavior of Biomedical Materials. 139: 105681.
http://dx.doi.org/10.1016/j.jmbbm.2023.105681
First Listed Author
Published,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 3
Contribution Percentage: 81-90
Description of Contribution Role: Conceptualization, Methodology, Software, Validation, Visualization, Writing- original draft, Writing-review & editing
Description / Contribution Value: **M.Sc. work.** *A follow-up publication, in which we demonstrate the reliability of a musculoskeletal MRI application (Karakuzu et al. 2017) in a multi-verse analysis framework.*

2. (2023). The relaxometry hype cycle. Frontiers in Physiology. 14
Last Author
Published, Frontiers,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 2
Contribution Percentage: 61-70

3. R.J. Harding, P. Bermudez, A. Bernier, M. Beauvais, P. Bellec, S. Hill, A. Karakuzu, B.M. Knoppers, P. Pavlidis, J.B. Poline, J. Roskams, N. Stikov, J. Stone, S. Strother, CONP Consortium, A.C. Evans. (2023). The Canadian Open Neuroscience Platform - An open science framework for the neuroscience community. PLOS Computational Biology. 19(7): e1011230.
Co-Author
Published,
Refereed?: Yes
Number of Contributors: 16
Contribution Percentage: 11-20
Description of Contribution Role: Software (https://neurolibre.org), Visualization, Writing - Review & Editing

4. E. DuPre, C. Holdgraf, A. Karakuzu, L. Tetrel, P. Bellec, N. Stikov, J.B. Poline. (2022). Beyond advertising: New infrastructures for publishing integrated research objects. PLOS Computational Biology. 18(1): e1009651.
http://dx.doi.org/10.1371/journal.pcbi.1009651
Co-Author
Published, PLOS,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 7
Contribution Percentage: 11-20
Description of Contribution Role: Writing - Original Draft, Writing - Review & Editing
Description / Contribution Value: **Ph.D. collaboration.** *In relevance to my involvement with NeuroLibre, in this article we explain the fundamental components that define a reproducible publication, i.e. an integrated research object.*

5. G. Niso, R. Botvinik-Nezer, S. Appelhoff, A. De La Vega, O. Esteban, J.A. Etzel, K. Finc, M. Ganz, R. Gau, Y.O. Halchenko, P. Herholz, A. Karakuzu, D. Keator, C. Maumet, C.J. Markiewicz, C. Pernet, F. Pestilli, N. Queder, T. Schmitt, W. Sójka, A.S. Wagner, K. Whitaker, J. Rieger. (2022). Open and reproducible neuroimaging: from study inception to publication. NeuroImage. 263(119623): 119623. http://dx.doi.org/10.31219/osf.io/pu5vb
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 16
Contribution Percentage: 31-40
Description of Contribution Role: Software, Visualization, Writing - Original Draft, Writing - Review & Editing
Description / Contribution Value: **Ph.D. collaboration** . *This comprehensive review covers the entire lifecycle of a neuroimaging research project that incorporates open-science practices. As one of the authors of this review article, I contributed to the section on Data Acquisition and also developed an online, living version of the article as a Jupyter Book (https://oreoni.github.io).*

6. A. Karakuzu, S. Appelhoff, T. Auer, M. Boudreau, F. Feingold, A.R. Khan, A. Lazari, C. Markiewicz, M. Mulder, C. Phillips, T. Salo, N. Stikov, K. Whitaker, G. Hollander. (2022). qMRI-BIDS: An extension to the brain imaging data structure for quantitative magnetic resonance imaging data. Scientific Data. 9: 517. http://dx.doi.org/10.1038/s41597-022-01571-4
First Listed Author
Published, Springer Nature,
Refereed?: Yes, Open Access?: Yes, Synthesis?: No
Number of Contributors: 13
Contribution Percentage: 81-90
Description of Contribution Role: Conceptualization, Software, Visualization, Writing - Original Draft, Writing - Review & Editing
Description / Contribution Value: **Ph.D. work (2nd/3 articles).** *This article presents a data and metadata standard for the organization of quantitative MRI data, addressing an important need for interoperable and reliable MRI measurements (https://https://bids.neuroimaging.io/).*

7. A. Karakuzu, E. DuPre, L. Tetrel, P. Bermudez, M. Boudreau, M. Chin, J.B. Poline, S. Das, P. Bellec, N. Stikov. (2022). NeuroLibre: A preprint server for full-fledged reproducible neuroscience. OSF Preprints. : h89js. http://dx.doi.org/10.31219/osf.io/h89js
First Listed Author
Published,
Refereed?: No, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 10
Contribution Percentage: 81-90
Description of Contribution Role: Conceptualization, Software (https://neurolibre.org), Writing - Original Draft
Description / Contribution Value: **Ph.D. side-project.** *Traditional publications in PDF formats often fall short in providing all the details needed to independently replicate a published research. By integrating code, data and reproducible runtime in the context of scientific narrative, NeuroLibre compiles and publishes modern research objects for interactive neuroscience analysis (https://neurolibre.org).*

8. Levitis, Elizabeth; van Praag, Cassandra D Gould; Gau, Rémi; Heunis, Stephan; DuPre, Elizabeth; Kiar, Gregory; Bottenhorn, Katherine L; Glatard, Tristan; Nikolaidis, Aki; Whitaker, Kirstie Jane;. (2021). Centering inclusivity in the design of online conferences—An OHBM–Open Science perspective. GigaScience. 10(8): giab051.
http://dx.doi.org/10.1093/gigascience/giab051
Co-Author
Published, Oxford University Press,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 110
Contribution Percentage: 0-10
Description of Contribution Role: Co-authored and revised the manuscript.
Description / Contribution Value: **Ph.D. collaboration.** *I co-authored this paper with colleagues from Organization in Human Brain Mapping, following a keynote talk I gave in the Open Science Room of the annual meeting oft this society.*

9. O. Maier, S.H. Baete, A. Fyrdahl, K. Hammernik, S. Harrevelt, L. Kasper, A. Karakuzu, M. Loecher, F. Patzig, Y. Tian, K. Wang, D. Gallichan, F. Knoll. (2021). CG-SENSE revisited: Results from the first ISMRM reproducibility challenge. Magnetic Resonance in Medicine. 85(4): 1821-1839.
http://dx.doi.org/10.1002/mrm.28569
Co-Author
Published, Wiley and Sons Inc.,
Refereed?: Yes, Open Access?: Yes, Synthesis?: No
Number of Contributors: 14
Contribution Percentage: 11-20
Description of Contribution Role: Software, Visualization, Writing - Review & Editing
Description / Contribution Value: **Ph.D. collaboration** *This article publishes the results of ISMRM reproducible research study group 2019 challenge, presenting the promises and pitfalls for the independent replication of a seminal MRI image reconstruction method.*

10. Gau R, Noble S, Heuer K, Bottenhorn KL, Bilgin IP, Yang YF, Huntenburg JM, Bayer JM, Bethlehem RA, Rhoads SA, Vogelbacher C. and The BrainHack Community. (2021). Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. Neuron. 109(11): 1769-1775.
http://dx.doi.org/10.1016/j.neuron.2021.04.001
Co-Author
Published, Cell Press,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 220
Contribution Percentage: 0-10
Description of Contribution Role: Revised the manuscript.
Description / Contribution Value: **Ph.D. collaboration.** *BrainHack is a renowned open-science community for organizing educational and academic events to foster reproducible research.* As an active member, *I am involved with the organization open-source events and the development of a publication platform for the advances made during those events.*

11. A. Karakuzu, L. Biswas, J. Cohen-Adad, N. Stikov. (2021). Vendor-neutral sequences improve multi-center reproducibility of quantitative magnetic resonance imaging. Magnetic Resonance in Medicine. 88(3): 1212-1228.
http://dx.doi.org/10.1002/mrm.29292
First Listed Author
Published, Wiley,
Refereed?: Yes
Number of Contributors: 3
Contribution Percentage: 81-90
Description of Contribution Role: Conceptualization, Methodology, Software, Formal Analysis, Investigation, Visualization, Writing - Original Draft, Writing - Review & Editing
Description / Contribution Value: **Ph.D. work (3rd/3 articles).** *This article represents the final culmination of my Ph.D. project, which involved the development of various software tools and data standards. Through this work, I have provided compelling evidence that unifying all aspects of MRI implementations can significantly improve the reproducibility of MRI measurements across scanners from different vendors.*

12. Badji, Atef; de la Colina, Adrián Noriega; Boshkovski, Tommy; Sabra, Dalia; Karakuzu, Agah; Robitaille-Grou, Marie-Christine; Gros, Charley; Joubert, Sven; Bherer, Louis; Lamarre-Cliche, Maxime; Girouard M. Helene. (2020). A cross-sectional study on the impact of arterial stiffness on the corpus callosum, a key white matter tract implicated in Alzheimer's disease. Journal of Alzheimer's Disease. : 1-15.
http://dx.doi.org/10.3233/JAD-200668
Co-Author
In Press, IOS press,
Refereed?: Yes
Number of Contributors: 11
Contribution Percentage: 11-20
Description of Contribution Role: Analysis and interpretation of the results, manuscript revision.
Description / Contribution Value: **Ph.D. Collaboration** *In this article we showed the in-vivo association between a cardiovascular condition (arterial stiffness) and brain microstructure in relevance to Alzheimer's Disease.*

13. A. Karakuzu, M. Boudreau, T. Duval, T. Boshkovski, I.R. Leppert, J.F. Cabana, I. Gagnon, P. Beliveau, G.B. Pike, J. Cohen-Adad, N. Stikov. (2020). qMRLab: Quantitative MRI analysis, under one umbrella. Journal of open source software. 5(53): 2343.
http://dx.doi.org/10.21105/joss.02343
First Listed Author
Published, Open Journals,
Refereed?: Yes
Number of Contributors: 12
Contribution Percentage: 91-100
Description of Contribution Role: Conceptualization, Software, Methodology, Visualization, Writing - Original Draft, Writing - Review & Editing
Description / Contribution Value: **Ph.D. work (1st/3 articles)** *This software article introduces qMRLab (https://qmrlab.org), an open-source toolbox designed for quantitative MRI analysis and simulation. As the lead developer of this project, I present the key features and benefits of qMRLab in this publication.*

14. M. Mancini, A. Karakuzu, J. Cohen-Adad, M. Cercignani, T.E. Nichols, N. Stikov. (2020). An interactive meta-analysis of MRI biomarkers of myelin. eLife. 9: e61523.
http://dx.doi.org/10.7554/eLife.61523
Co-Author
Published, eLife Sciences Publications Limited,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 6
Contribution Percentage: 41-50
Description of Contribution Role: Software, Visualization, Writing - Original Draft, Writing - Review & Editing
Description / Contribution Value: **Ph.D. collaboration.** *This meta-analysis evaluates the accuracy of various qMRI methods in quantifying myelin against a ground truth measurement (i.e. histology). By developing an interactive and online-executable article, we enabled this resource to serve as a living meta-analytical database for in-vivo myelin imaging.*

15. Badji, Atef; de la Colina, Adrián Noriega; Karakuzu, Agah; Duval, Tanguy; Desjardins-Crépeau, Laurence; Parizet, Matthieu; Joubert, Sven; Bherer, Louis; Lamarre-Cliche, Maxime; Stikov, Nikola; Cohen-Adad, Julien. (2020). Arterial stiffness cut-off value and white matter integrity in the elderly. Neuroimage: Clinical. 26: 577-585.
http://dx.doi.org/10.1016/j.nicl.2019.102007
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 10
Contribution Percentage: 21-30
Description of Contribution Role: Analysis and interpretation of the results, manuscript preparation and revision.
Description / Contribution Value: **Ph.D. collaboration.** *Drawing upon previous work that explored the relationship between arterial stiffness and brain microstructure, in this study we proposed a clinical cut-off value for carotid-femoral pulse wave velocity as a diagnostic tool for evaluating the pathology.*

16. A. Badji, A.N. de la Colina, A. Karakuzu, T. Duval, L. Desjardins-Crépeau, S. Joubert, L. Bherer, M. Lamarre-Cliche, N. Stikov, H. Girouard. (2019). Arterial stiffness and white matter integrity in the elderly: A diffusion tensor and magnetization transfer imaging study. Neuroimage. 186: 577-585.
http://dx.doi.org/10.1016/j.neuroimage.2018.11.015
Co-Author
Published, Academic Press,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 9
Contribution Percentage: 31-40
Description of Contribution Role: Formal Analysis, Data Curation, Visualization, Writing - Original Draft
Description / Contribution Value: **Ph.D. collaboration.** *In this article we combined different quantitative MRI measurements to evaluate the impact of arterial stiffness on brain microstructure, highlighting certain brain regions to be more susceptible to cardiovascular risk factors.*

17. Hafyane, Tarik; Karakuzu, Agah; Duquette, Catherine; Mongeon, François-Pierre; Cohen-Adad, Julien; Jerosch-Herold, Michael; Friedrich, Matthias G; Stikov, Nikola;. (2018). Let's talk about cardiac T1 mapping. bioRxiv. : 343079.
http://dx.doi.org/10.1101/343079
Co-Author
Published, Cold Spring Harbor Laboratory,
Refereed?: No, Open Access?: Yes, Synthesis?: No
Number of Contributors: 9
Contribution Percentage: 81-90
Description of Contribution Role: Designed and performed all the analyses, wrote and revised the manuscript, created reproducible publication material.
Description / Contribution Value: **Ph.D. side-project** *We devised 3 different cardiovascular T1 mapping sequences in an ex-vivo design, reporting a significant measurement bias that persists before and after the fixation of myocardium. In this article, we highlight the importance of consensus implementations for the clinical translation of MRI measurements.*

18. Gözübüyük, Ömer B; Moen, Maarten H; Akman, Mehmet; Ipseftel, Ioakim; Karakuzu, Agah;. (2018). Successful return to play following adductor longus proximal tendon rupture in professional soccer without re-injury at 12 months: a case report. Journal of back and musculoskeletal rehabilitation. 31(3): 583-587.
http://dx.doi.org/10.3233/BMR-170857
Last Author
Published, IOS press,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 5
Contribution Percentage: 51-60
Description of Contribution Role: Designed and performed the statistical analyses, revised the manuscript.
Description / Contribution Value: **M.Sc. side-project** *This case report details the use of MRI to investigate how a muscle's mechanical interaction with its surroundings contributes to the recovery of an elite soccer player following tendon rupture.*

19. Demirkiran, Aytac; Karakuzu, Agah; Erkol, Hakan; Torun, Hamdi; Unlu, Mehmet B;. (2018). Analysis of microcantilevers excited by pulsed-laser-induced photoacoustic waves. Optics express. 26(4): 4906-4919.
http://dx.doi.org/10.1364/OE.26.004906
Co-Author
Published, Optical Society of America,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 5
Contribution Percentage: 71-80
Description of Contribution Role: Designed the computational framework, contributed to the draft, revised the manuscript.
Description / Contribution Value: **External-field collaboration** *This article simulates the mechanical response of an atomic force microscopy cantilever stimulated by photoacoustic waves at resonance frequency, setting the theoretical groundwork for the development of novel microstructure imaging methods.*

20. Gozubuyuk, Omer Batin; Karakuzu, Agah; Pamuk, Uluc; Yucesoy, Can A;. (2018). The Role of Intra- and Epimuscular Fasciae Beyond Being Passive Structural Elements: MRI Analyses Indicate That They Interfere with, and Affect Muscle's Active Mechanics. Journal of Bodywork and Movement Therapies. 22(4): 852-853.
Co-Author
Published, Churchill Livingstone,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 5
Contribution Percentage: 31-40
Description of Contribution Role: Performed the data analysis, revised the manuscript.
Description / Contribution Value: **M.Sc. work** *Using the combined MRI-DTI method (Karakuzu et al. 2017), this study reports that intermuscular load-balance interactions extend beyond active mechanical actuators and contribute to the passive muscle force.*

21. A. Karakuzu, U. Pamuk, C. Ozturk, B. Acar, C.A. Yucesoy. (2017). Magnetic resonance and diffusion tensor imaging analyses indicate heterogeneous strains along human medial gastrocnemius fascicles caused by submaximal plantar-flexion activity. Journal of biomechanics. 57: 69-78.
http://dx.doi.org/10.1016/j.jbiomech.2017.03.028
First Listed Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 5
Contribution Percentage: 81-90
Description of Contribution Role: Conceptualization, Software, Methodology, Investigation, Formal Analysis, Visualization, Writing - Original Draft
Description / Contribution Value: **M.Sc. Work** *In this article we develop a novel non-invasive methodology for biomechanical characterization of skeletal muscle during active contractions. Our findings present the first in-vivo findings on heterogeneous load distribution in human muscle, suggesting important implications of muscle's function in health and disease.*

Thesis/Dissertation

1. Bringing Quantitative Magnetic Resonance Imaging Under One Umbrella. (2022). École Polytechnique de Montréal. Doctorate.
Number of Pages: 204 Supervisor: Nikola Stikov
Contribution Percentage: 91-100
Description of Contribution Role: Conceptualization, Software, Methods, Investigation, Data Curation, Formal Analysis, Visualization, Writing - Original Draft
Description / Contribution Value: **1)** developed an open-source software capable of calculating more than 45 quantitative images, **2)** developed a global qMRI data standard that has already been adopted by hundreds of research labs and **3)** standardized the acquisition process by developing vendor-neutral pulse sequences (software that runs the MRI scanners) and fully reproducible processing pipelines, and **4)** confirmed the hypothesis that (3) improves multi-center reproducibility of qMRI.

2. MRI assessment of local deformations along human medial gastrocnemius muscle fibers on submaximal plantarflexion activity. (2015). Bogazici University. Master's Thesis. Supervisor: Can A. Yucesoy
Contribution Percentage: 91-100
Description of Contribution Role: Conceptualization, Software, Methods, Investigation, Data Curation, Formal Analysis, Visualization, Writing - Original Draft

Conference Publications

1. N. Blostein, P. Samson, J. Cohen-Adad, N. Stikov, A. Karakuzu. (2023). Vendor-neutral automated acquisition workflow for spinal cord MRI. Proceedings of the OHBM Annual Meeting. OHBM Annual Meeting, ,
   Conference Date: 2023/7
   Poster
   Last Author
   Accepted
   Refereed?: Yes
   Contribution Percentage: 81-90
   Description of Contribution Role: Software, Supervision, Writing - Review & Editing
2. A. Karakuzu, E. DuPre, P. Barmudez, M. Boudreau, R. Harding, M. Chin, J.B. Poline, S. Das, P. Bellec, N. Stikov. (2023). NeuroLibre: From static PDFs with code to reproducible preprints built from code. Proceedings of the OHBM Annual Meeting. OHBM Annual Meeting, ,
   Conference Date: 2023/7
   Poster
   First Listed Author
   Accepted
   Refereed?: Yes
   Contribution Percentage: 91-100
   Description of Contribution Role: Conceptualization, Software, Visualization, Writing - Original Draft
3. A. Karakuzu, N. Stikov, P. Samson. (2023). Vendor-neutrality and upgrade immunity: Post-upgrade assessment of vendor-neutral qMRIfrom two perspectives. Proceedings of the ISMRM Anuual Meeting. 2023 ISMRM & ISMRT Annual Meeting & Exhibition, ,
   Conference Date: 2023/6
   Poster
   First Listed Author
   Accepted
   Refereed?: Yes
   Contribution Percentage: 91-100
   Description of Contribution Role: Conceptualization, Formal Analysis, Investigation, Visualization, Writing - Original Draft
4. A. Karakuzu, N.Stikov. (2023). MRI Workflows for Measurement: Blackbox, Graybox, & Glassbox Benchmarks on Reproducibility. Proceedings of the Sedona Workshop. ISMRM Workshop on Data Sampling & Image Reconstruction, ,
   Conference Date: 2023/1
   Abstract
   First Listed Author
   Published
   Refereed?: Yes, Invited?: No
   Contribution Percentage: 91-100
   Description of Contribution Role: Conceptualization, Visualization, Writing - Original Draft

5. Agah Karakuzu, Julien Cohen-Adad, Nikola Stikov. (2022). Developing MRI with community in mind: Vendor-neutral sequences improve multi-center reproducibility. Proceedings of the OHBM Annual Meeting. Organization for Human Brain Mapping Annual Meeting, Glasgow, United Kingdom,
   Conference Date: 2022/6
   Abstract
   First Listed Author
   Published
   Refereed?: Yes, Invited?: Yes
   Number of Contributors: 3
   Contribution Percentage: 91-100
   Description of Contribution Role: Designed and executed the experiments, data collection and analyses. Authored and revised the manuscript Presented the work at the conference

6. A. Karakuzu, J. Cohen-Adad, N. Stikov. (2022). Multicenter reproducibility of quantitative MRI using vendor-neutral sequences (VENUS). Proceedings of the ISMRM Anuual Meeting. Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting, London, United Kingdom,
   Conference Date: 2022/5
   Abstract
   First Listed Author
   Published
   Refereed?: Yes, Invited?: Yes
   Number of Contributors: 3
   Contribution Percentage: 91-100
   Description of Contribution Role: Conceptualization, Software, Formal Analysis, Investigation, Writing - Original Draft

7. A. Karakuzu, M. Boudreau, J. Cohen-Adad, N. Stikov. (2020). Thinking outside the blackbox: A fully transparent VFA T1 mapping pipeline under version control. Proceedings of ISMRM & SMRT Virtual Conference & Exhibition. ISMRM & SMRT Virtual Conference & Exhibition, ,
   Conference Date: 2020/8
   Poster
   First Listed Author
   Published
   Refereed?: Yes, Invited?: No
   Contribution Percentage: 81-90
   Description of Contribution Role: Conceptualization, Software, Formal Analysis, Investigation, Writing - Original Draft

8. Agah Karakuzu, Gilles Hollender, Stefan Appelhoff, Tibor Auer, Mathieu Boudreau, Franklin Feingold, Ali R. Khan, Alberto Lazari, Christophe Phillips, Nikola Stikov, Kirstie Whitaker. (2020). A joint-community effort to standardize quantitative MRI data: updates from the BIDS extension proposal. Proceedings of ISMRM & SMRT Virtual Conference & Exhibition. ISMRM & SMRT Virtual Conference & Exhibition, ,
   Conference Date: 2020/8
   Poster
   First Listed Author
   Published
   Refereed?: Yes, Invited?: No
   Contribution Percentage: 71-80
   Description of Contribution Role: Coordinated regular meetings, established the data standard, collected example datasets and prepared the manuscript.

9. A. Karakuzu, M. Boudreau, J. Cohen-Adad, N. Stikov. (2020). Fully transparent qMRLab pipelines to quantify brain microstructure: From scanner to publication. Proceedings of OHBM 2020 Annual Meeting. OHBM 2020 Annual Meeting, ,
   Conference Date: 2020/6
   Poster
   First Listed Author
   Published
   Refereed?: Yes, Invited?: No
   Contribution Percentage: 81-90
   Description of Contribution Role: Conceptualization, Software, Visualization, Writing - Original Draft

10. Agah Karakuzu, Mathieu Boudreau, Tanguy Duval, Ilana Leppert, Tommy Boshkovski, Julien Cohen-Adad, Nikola Stikov. (2019). The qMRLab workflow: From acquisition to publication. Proceedings of ISMRM 27th Annual Meeting & Exhibition. ISMRM 27th Annual Meeting & Exhibition, ,
    Conference Date: 2019/5
    Poster
    First Listed Author
    Published
    Refereed?: Yes, Invited?: No
    Number of Contributors: 7
    Contribution Percentage: 81-90
    Description of Contribution Role: Conceptualized and developed the methodology, developed the software and prepared the manuscript.

11. Pamuk, Uluc; Karakuzu, Agah; Sanli, Goktug; Yucesoy, Can A;. (2017). Muscles' Activation State Affects Medial Gastrocnemius Fiber Strain Heterogeneity: Assessment Using MRI And DTI Methods. Proceedings of XXVI Congress of the International Society of Biomechanics. XXVI Congress of the International Society of Biomechanics, Brisbane, Australia,
    Conference Date: 2017/7
    Poster
    Co-Author
    Published
    Refereed?: Yes, Invited?: No
    Contribution Percentage: 61-70
    Description of Contribution Role: Conducted the experiment, performed the analysis and revised the manuscript.