

Or Perlman, PhD

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<https://mri-ai.github.io> ◊ he/him

EDUCATION

PhD, Biomedical Engineering Technion - Israel Institute of Technology, Haifa, Israel Mentor: Prof. Haim Azhari (Dean, Biomedical Engineering)	<i>November 2013 - March 2018</i>
MSc (<i>Cum Laude</i>), Biomedical Engineering Ben-Gurion University of the Negev, Beer-Sheva, Israel Mentors: Dr. Yaniv Zigel and Prof. Amos Katz (Dean of Medicine)	<i>October 2011 - November 2013</i>
BSc (<i>Cum Laude</i>), Biomedical Engineering Ben-Gurion University of the Negev, Beer-Sheva, Israel	<i>November 2008 - October 2012</i>

PROFESSIONAL EXPERIENCE

Senior Lecturer (Assistant Professor Equivalent) Department of Biomedical Engineering Faculty of Engineering Tel Aviv University, Tel Aviv, Israel	<i>July 2022 (expected)</i>
Postdoctoral Research Fellow Athinoula A. Martinos Center for Biomedical Imaging Harvard Medical School & Massachusetts General Hospital Mentors: Profs. Christian T. Farrar and Matthew S. Rosen	<i>June 2018 - June 2022 (expected)</i>
Research Assistant Faculty of Biomedical Engineering Technion - Israel Institute of Technology	<i>January 2018 - June 2018</i>
Visiting Scholar (Graduate Student) Gorter Center for High Field MRI, Department of Radiology Leiden University Medical Center, The Netherlands Host: Prof. Andrew Webb	<i>March 2015</i>
Preclinical MRI Operator and Consultant Biomedical Core Facility Rappaport Faculty of Medicine Technion - Israel Institute of Technology	<i>September 2014 - June 2018</i>




HONORS AND AWARDS

Marie Skłodowska-Curie Global Fellowship European Union's Horizon 2020 Research and Innovation Programme Overall Budget: €269,998.08 https://cordis.europa.eu/project/id/836752	<i>November 2019 - June 2023</i>
Molecular & Cellular Study Group Competition, 1st Place International Society for Magnetic Resonance in Medicine (ISMRM)	<i>March 2022</i>
Travel Award Ministry of Aliyah and Integration, Israel	<i>January 2022</i>



DAAD AI-Net Fellowship German Academic Exchange Service	<i>September 2021</i>
Educational Stipend Award ISMRM Annual Meeting & Exhibition	<i>May 2021</i>
Poster Award, 3rd Place The 11th Scientific Symposium on Ultrahigh Field MR	<i>September 2020</i>
<i>Magna Cum Laude</i> Award International Society for Magnetic Resonance in Medicine (ISMRM)	<i>August 2020</i>
Trainee Abstract Award, 3rd Place ISMRM MR in Drug Research Study Group Meeting	<i>August 2020</i>
Educational Stipend Award ISMRM Annual Meeting & Exhibition	<i>August 2020</i>
Cloud Computing Grant CERN openlab	<i>May 2020</i>
<i>Magna Cum Laude</i> Award International Society for Magnetic Resonance in Medicine (ISMRM)	<i>May 2019</i>
Educational Stipend Award ISMRM Annual Meeting & Exhibition	<i>May 2019</i>
International Travel Award The 7th International Workshop on CEST Imaging	<i>December 2018</i>
Travel Scholarship Ministry of Science, Technology & Space, Israel	<i>November 2017</i>
Society Award for Excelling PhD Candidates Israel Society for Medical and Biological Engineering (ISMBE)	<i>March 2017</i>
Russell Berrie Scholarship in Nanotechnology The Russell Berry Nanotechnology Institute	<i>October 2016 - September 2017</i>
JSPS Hope Fellow Japan Society for the Promotion of Science Selected to participate in the 8th HOPE Meeting with Nobel Laureates	<i>March 2016</i>
Travel Scholarship Ministry of Science, Technology & Space, Israel	<i>February 2015</i>
Russell Berrie Scholarship in Nanotechnology The Russell Berry Nanotechnology Institute	<i>October 2014 - September 2015</i>
Poster Award, 2nd Place Israel Society for Medical and Biological Engineering (ISMBE) Annual Conference	<i>February 2013</i>
Zlotowski Admission Award for Outstanding Students Ben-Gurion University of the Negev, Israel	<i>November 2008</i>

PEER-REVIEWED JOURNAL PAPERS

1. **O. Perlman***, B. Zhu*, M. Zaiss, M. S. Rosen, C. T. Farrar, "An End-to-End AI-Based Framework for Automated Discovery of Rapid CEST/MT MRI Acquisition Protocols and Molecular Parameter Quantification (AutoCEST)," *Magnetic Resonance in Medicine*, Vol. 87, pp. 2792-2810, 2022.
*Equal contribution.

2. **O. Perlman**, H. Ito, K. Herz, N. Shono, H. Nakashima, M. Zaiss, E. A. Chiocca, O. Cohen, M. S. Rosen, C. T. Farrar, "Quantitative imaging of apoptosis following oncolytic virotherapy by magnetic-resonance fingerprinting aided by deep learning," *Nature Biomedical Engineering*, 2021. <https://doi.org/10.1038/s41551-021-00809-7>
Corresponding authors.
3. K. Herz, S. Mueller, **O. Perlman**, M. Zaitsev, L. Knutsson, P. Sun, J. Zhou, P. van Zijl, K. Heinecke, P. Schuenke, C. Farrar., M. Schmidt, K., A. Dorfler, K. Scheffler, and M. Zaiss, "Pulseq-CEST: Towards multi-site multi-vendor compatibility and reproducibility of CEST experiments using an open source sequence standard," *Magnetic Resonance in Medicine*, Vol. 86, No. 4, pp. 1845-1858, 2021.
4. I. S. Weitz, **O. Perlman**, H. Azhari, S. S. Sivan, "In vitro evaluation of copper release from MRI-visible, PLGA-based nanospheres," *Journal of Materials Science*, Vol. 56, pp. 718-730, 2021.
5. **O. Perlman**, H. Ito, A. A. Gilad, M. T. McMahon, E. A. Chiocca, E. H. Nakashima, C. T. Farrar, "Redesigned reporter gene for improved proton exchange-based molecular MRI contrast," *Scientific Reports*, Vol. 10, 20664, 2020. <https://doi.org/10.1038/s41598-020-77576-z>.
6. **O. Perlman**, K. Herz, M. Zaiss, O. Cohen, M. S. Rosen, C. T. Farrar, "CEST MR-fingerprinting: Practical considerations and insights for acquisition schedule design and improved reconstruction," *Magnetic Resonance in Medicine*, Vol. 83, pp. 462-478, 2020.
7. **O. Perlman**, A. Borodetsky, Y. Kauffmann, Y. Shamay, H. Azhar, I. S. Weitz, "Gold/copper@polydopamine nanocomposite for contrast-enhanced dual modal computed tomography-magnetic resonance imaging," *ACS Applied Nano-Materials*, Vol. 2, No. 10, pp. 6124-6134, 2019.
8. M. Benguigui, I. S. Weitz, M. Timaner, T. Kan, D. Shechter, **O. Perlman**, S. Sivan, Z. Raviv, H. Azhari, Y. Shaked, "Copper oxide nanoparticles inhibit pancreatic tumor growth primarily by targeting tumor initiating cells," *Scientific Reports*, Vol. 9, No. 1, pp. 1-10, 2019.
9. **O. Perlman**, I. S. Weitz, and H. Azhari, "Target visualization and microwave hyperthermia monitoring using nanoparticle-enhanced transmission ultrasound (NETUS)," *International Journal of Hyperthermia*, Vol. 34, No. 8, pp. 773-785, 2018.
10. **O. Perlman**, I. S. Weitz, S. S. Sivan, H. Abu-Khalla, M. Benguigui, Y. Shaked, and H. Azhari, "Copper oxide loaded PLGA nanospheres: towards a multifunctional nanoscale platform for ultrasound based imaging and therapy," *Nanotechnology*, Vol. 29, No. 18, pp. 185102-185112, 2018.
11. **O. Perlman** and H. Azhari, "Ultrasonic computed tomography imaging of iron oxide nanoparticles," *Physics in Medicine and Biology*, Vol. 62, No. 3, pp. 825-842, 2017.
12. **O. Perlman**, A. Katz, G. Amit, and Y. Zigel, "Supraventricular tachycardia classification in the 12-Lead ECG using atrial waves detection and a clinically based tree scheme," *IEEE Journal of Biomedical and Health Informatics*, Vol. 20, No. 6, pp. 1513-1520, 2016.
13. **O. Perlman**, I. S. Weitz, and H. Azhari, "Copper oxide nanoparticles as contrast agents for MRI and ultrasound dual-modality imaging," *Physics in Medicine and Biology*, Vol. 60, pp. 5767-5783, 2015.
14. **O. Perlman**, A. Katz, N. Weissman, G. Amit, and Y. Zigel, "Atrial electrical activity detection using linear combination of 12-lead ECG signal," *IEEE Transactions on Biomedical Engineering*, Vol. 61, No. 4, pp. 1034-1043, 2014.

REVIEW PAPERS

1. **O. Perlman**, C. T. Farrar, and H. Y. Heo, "MR Fingerprinting for Semisolid Magnetization Transfer and Chemical Exchange Saturation Transfer Quantification," *NMR in Biomedicine*, 2022,

JOURNAL PAPERS UNDER REVIEW

1. O. Cohen, R. Young, **O. Perlman**, C. T. Farrar, R. Otazo, "Development of a Clinical Chemical Exchange Saturation Transfer MR fingerprinting (CEST-MRF) Pulse Sequence and Reconstruction for Brain Tumor Quantification", *arXiv preprint*: <https://arxiv.org/abs/2108.08333>

REFEREED PAPERS IN CONFERENCE PROCEEDINGS

1. **O. Perlman**, I. S. Weitz, and H. Azhari, "Preliminary study of copper oxide nanoparticles acoustic and magnetic properties for medical imaging," in *SPIE Medical Imaging, International Society for Optics and Photonics*, Orlando, Florida, 2015, pp. 9412041-9412046. **Oral presentation.**
2. **O. Perlman**, A. Katz, and Y. Zigel, "Noninvasive fetal QRS detection using linear combination of abdomen ECG signals," in *Computing in Cardiology*, Zaragoza, Spain, 2013, pp. 169-172. **Oral presentation.**
3. **O. Perlman**, A. Katz, N. Weissman, and Y. Zigel, "Atrial electrical activity detection in 12-lead ECG using synthetic atrial activity signal," in *Computing in Cardiology*, Krakow, Poland, 2012, pp. 665-668.
4. **O. Perlman**, A. Katz, G. Amit, and Y. Zigel, "Cardiac arrhythmia classification in 12-lead ECG using synthetic atrial activity signal," in *IEEE 27th Convention of Electrical Electronics Engineers*, Eilat, Israel, 2012, pp. 1-4. **Oral presentation.**

REFEREED CONFERENCE ABSTRACTS

1. **O. Perlman**, B. Zhu, M. Zaiss, N. Shono, H. Nakashima, E. A. Chiocca, M. S. Rosen, C.T. Farrar, "Automatic Design of Quantitative and Rapid Molecular MRI Protocols using an AI-Based Approach," *World Molecular Imaging Congress (WMIC)*, Virtual, Oct., 2021. **Oral presentation.**
2. **O. Perlman**, B. Zhu, M. Zaiss, N. Shono, H. Nakashima, E. A. Chiocca, M. S. Rosen, C.T. Farrar, "AI-Based Automatic Design of Quantitative and Rapid CEST/MT Protocols at 7.0 T and 9.4 T," *12th Symposium on Ultrahigh Field MR*, Virtual, September, 2021.
3. **O. Perlman**, B. Zhu, M. Zaiss, N. Shono, H. Nakashima, E. A. Chiocca, M. S. Rosen, C.T. Farrar, "In-Vivo Sub-Minute rNOE Mapping Using AutoCEST: a Machine-Learning Approach for CEST/MT Protocol Invention and Quantitative Reconstruction," *ISMRM Annual Meeting*, Virtual, May, 2021.
4. J. Coll-Font, **O. Perlman**, S. Chen, R. Eder, C. T. Farrar, C. T. Nguyen, "Evaluating the Effects of Motion Compensation to IVIM Fitting in In-Vivo DW-MRI of the Muscle.," *ISMRM Annual Meeting*, Virtual, May, 2021.
5. O. Cohen, **O. Perlman**, C. T. Farrar, O. Ricardo, "Development of a Clinical CEST-MR Fingerprinting (CEST-MRF) Pulse Sequence and Reconstruction Methods," *ISMRM Annual Meeting*, Virtual, May, 2021.
6. **O. Perlman**, H. Ito, K. Herz, N. Shono, H. Nakashima, M. Zaiss, E. A. Chiocca, O. Cohen, M. S. Rosen, C.T. Farrar, "Deep CEST MR fingerprinting reveals tumor apoptotic response to oncolytic virotherapy in vivo," *The 8th International Workshop on Chemical Exchange Saturation Transfer Imaging*, Virtual, Nov. 2020. **Oral presentation.**
7. **O. Perlman**, B. Zhu, M. Zaiss, N. Shono, H. Nakashima, E. A. Chiocca, M. S. Rosen, C.T. Farrar, "Automated multi-pool CEST/MT optimal experiment design and deep quantitative mapping (AutoCEST)," *The 8th International Workshop on Chemical Exchange Saturation Transfer Imaging*, Virtual, Nov. 2020. **Oral presentation.**

8. **O. Perlman**, H. Ito, K. Herz, N. Shono, H. Nakashima, M. Zaiss, E. A. Chiocca, O. Cohen, M. S. Rosen, C. T. Farrar, "Deep CEST MR Fingerprinting Reveals Tumor Apoptotic Response to Oncolytic Virotherapy In Vivo," *World Molecular Imaging Congress (WMIC)*, Virtual, Oct., 2020. **Oral presentation.**
9. **O. Perlman**, H. Ito, A. A. Gilad, M. T. McMahon, E. A. Chiocca, E. H. Nakashima, C. T. Farrar, "Redesigned LRP reporter improves CEST MRI contrast in LRP-expressing mouse tumor," *World Molecular Imaging Congress (WMIC)*, Virtual, Oct., 2020.
10. **O. Perlman**, H. Ito, K. Herz, H. Nakashima, M. Zaiss, E. A. Chiocca, O. Cohen, M. S. Rosen, C. T. Farrar, "Deep CEST MR fingerprinting at 7T reveals tumor apoptotic response to oncolytic virotherapy in vivo," *11th Symposium on Ultrahigh Field MR Virtual*, September, 2020. **Poster award, 3rd place.**
11. **O. Perlman**, B. Zhu, M. Zaiss, M. S. Rosen, C. T. Farrar, "AutoCEST: a machine-learning approach for optimal CEST-MRI experiment design and quantitative mapping," *ISMRM 28th Annual Meeting*, Virtual, August, 2020.
12. **O. Perlman**, C. T. Farrar, O. Cohen, "Deep learning global schedule optimization for chemical exchange saturation transfer MR fingerprinting (CEST-MRF)," *ISMRM 28th Annual Meeting*, Virtual, August, 2020.
13. **O. Perlman**, H. Ito, K. Herz, H. Nakashima, M. Zaiss, E. A. Chiocca, C. Nguyen, O. Cohen, M. S. Rosen, C. T. Farrar, "Early detection of tumor apoptotic response to oncolytic virotherapy using deep CEST MR fingerprinting," *ISMRM 28th Annual Meeting*, Virtual, August, 2020. **Oral presentation. Magna Cum Laude Award.**
14. K. Herz, S. Mueller, **O. Perlman**, R. Strinberg, T. Stoecker, K. Scheffler, C. T. Farrar, M. Zaiss, "Towards clinical CEST-MRF: whole brain snapshot CEST MR Fingerprinting at 3T using spin-lock saturation and a centric 3D-EPI readout," *ISMRM 28th Annual Meeting*, Virtual, August, 2020. **Summa Cum Laude Award.**
15. **O. Perlman**, H. Ito, K. Herz, H. Nakashima, M. Zaiss, E. A. Chiocca, O. Cohen, M. S. Rosen, C. T. Farrar, "Early detection of tumor apoptotic response to oncolytic virotherapy using deep learning based CEST molecular MRI," *BWH/Harvard Computational Neuroscience Outcomes Center Symposium*, Boston, MA, USA, Oct, 2019.
16. **O. Perlman**, O. Cohen, S. Huang, H. Ito, H. Nakashima, E. A. Chiocca, M. S. Rosen, C. T. Farrar, "Deep learning neural network for CEST magnetic resonance fingerprinting of GBM mouse tumor models," *The future of molecular MR*, Newfoundland, Canada, July, 2019
17. **O. Perlman**, O. Cohen, S. Huang, H. Ito, H. Nakashima, E. A. Chiocca, M. S. Rosen, C. T. Farrar, "Sequential and deep multi-pool CEST MR fingerprinting in in-vivo tumor bearing mice," *ISMRM 27th Annual Meeting*, Montreal, Canada, May, 2019. **Oral presentation. Magna Cum Laude Award.**
18. I. S. Weitz, S. S. Sivan, **O. Perlman**, and H. Azhari, "Preparation of PLGA nanospheres as carriers for copper oxide nanoparticles based imaging contrast agent," *BioNanoMed*, Graz, Austria, 2019.
19. **O. Perlman**, O. Cohen, S. Huang, I. Mulder, C. Ayata, T. W. Kimberly, M. S. Rosen., and C. T. Farrar, "Proton exchange rate, volume fraction, T1, and T2 MR fingerprinting using an optimized acquisition schedule and a deep reconstruction network (DRONE)," *The 7th International Workshop on Chemical Exchange Saturation Transfer Imaging*, Beijing, China, 2018.
20. **O. Perlman**, O. Cohen, S. Huang, I. Mulder, C. Ayata, T. W. Kimberly, M. T. McMahon, M. S. Rosen., and C. T. Farrar, "MR fingerprinting deep reconstruction network (DRONE) for stroke reperfusion quantitative imaging," *ISMRM Workshop on Machine Learning Part II*, Washington D.C., USA, 2018.

21. O. Cohen, **O. Perlman**, S. Huang, M. T. McMahon, Y. R. Kim, M. S. Rosen, C. T. Farrar, "Deep learning neural network for CEST fingerprinting of MCAO rat stroke models," *Imaging in 2020*, Wyoming, USA, 2018.
22. I. S. Weitz, **O. Perlman**, S. S. Sivan, and H. Azhari, "Synthesis and characterization of copper oxide based polymeric nano-systems for biomedical imaging," *8th Forum on New Materials (CIMTEC)*, Perugia, Italy, 2018.
23. **O. Perlman**, I. S. Weitz, and H. Azhari, "Microwave ablation planning and monitoring using nanoparticle enhanced through-transmission ultrasound," *IEEE 39th Annual International Conference of the Engineering in Medicine and Biology Society (EMBC)*, Jeju Island, Korea, 2017.
24. **O. Perlman**, I. S. Weitz, and H. Azhari, "Potential medical applications of ultra small copper oxide nanoparticles," *NanoBio&Med*, Barcelona, Spain, 2017.
25. **O. Perlman**, I. S. Weitz, and H. Azhari, "Multimodal magnetic resonance and through-transmission ultrasound imaging of nanoparticles," *8th HOPE Meeting with Nobel Laureates*, Tsukuba, Japan, 2016.
26. **O. Perlman**, I. S. Weitz, and H. Azhari, "Copper oxide nanoparticles as contrast agents for medical imaging: a phantom study," *Technion RBNI Nanotechnology Fall Symposium*, Yad-Hanadiv, Israel, 2014. **Oral presentation.**
27. **O. Perlman**, A. Katz, G. Amit, and Y. Zigel, "A novel method for atrial electrical activity detection and arrhythmia classification in 12-lead ECG," *Annual Conference of the Israeli Society for Medical and Biological Engineering (ISMBE)*, Haifa, Israel, 2013. **Poster Award, 2nd place.**
28. **O. Perlman**, A. Katz, G. Amit, and Y. Zigel, "A method for atrial activity detection and arrhythmia classification in 12-lead ECG," *The 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, San-Diego, USA, 2012.

CHAPTERS IN BOOKS

O. Perlman and H. Azhari: "MRI and ultrasound imaging of nanoparticles for medical diagnosis," *In: Nanotechnology characterization tools for medical diagnosis*, Editor. Challa, SSR Kumar, Publisher: Springer, Berlin, Heidelberg. pp.333 – 365, 2018.

PATENTS

Y. Zigel, A. Katz, **O. Perlman**, N. Weissman, "Separating clinically relevant sources of electrical activity in ECG signals," U.S. Patent No. 9,597,001, 2017.

INVITED TALKS

1. "Quantitative Imaging of Apoptosis using AI Boosted Molecular Magnetic Resonance Fingerprinting," *Medical Imaging and Case Reports (MICR) 2022*, Virtual, March 2022. Invited by the organizing team.
2. "Machine learning-driven design and acceleration of quantitative molecular imaging methods," *World Molecular Imaging Congress (WMIC)*, Virtual, Oct. 2021. Invited by the organizing committee (Dr. Iris Zhou).
3. "AI boosted molecular MRI," *Insightec Research Division*, Israel, Oct. 2020. (Virtual). Host: Dr. Yoav Levy.
4. "Early detection of tumor apoptotic response to oncolytic virotherapy using deep CEST MR fingerprinting", *ISMRM MR in Drug Research Study Group Meeting*, Aug. 2020. Host: Dr. Rob Janiczek.

5. "Deep CEST MR fingerprinting," *Edmond & Lily Safra Center for Brain Sciences*, Hebrew University of Jerusalem, Israel, Mar. 2020. Host: Assoc. Prof. Aviv Mezer.
6. "Deep CEST MR fingerprinting," *Tel-Aviv University*, Israel, Mar. 2020. Hosts: Prof. Gil Navon & Assis. Prof. Noam Ben-Eliezer.
7. "Deep CEST MR fingerprinting," *Cardiovascular Bioengineering and Biomedical Imaging (CABBI) Seminar Series*, Martinos Center for Biomedical Imaging, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA, Feb. 2020. Host: Assoc. Prof. David Sosnovik.
8. "Nanoparticles for noninvasive imaging, diagnosis, and therapy," *Nanomedicine Seminar Series*, Northeastern University, Boston, MA, USA, Feb. 2020. Host: Prof. Srinivas Sridhar.

TEACHING EXPERIENCE

Faculty of Biomedical Engineering, Technion - Israel Institute of Technology

TA & Lab Instructor

Principles of Magnetic Resonance Imaging (undergraduate and graduate) *March 2014 - August 2017*
 Biomedical Engineering Lab (undergraduate) *November 2013 - August 2017*

Rappaport Faculty of Medicine, Technion – Israel Institute of Technology

In Vivo Imaging (graduate) *September 2015*

Biomedical Engineering Department, Ben-Gurion University of the Negev, Israel

TA & Lab Instructor

Introduction to Signal Processing (undergraduate) *March 2012 - August 2013*
 Medical Instrumentation (undergraduate) *October 2012 - February 2013*
 Physiological Signal Processing Lab (undergraduate) *October 2012 - February 2013*

Lachman (Kidum) Company, Israel

Psychometric Entrance Test Teacher (Israel equivalent of the SAT) *July 2008 - August 2011*

MENTORSHIP

Jonah Weigand-Whittier (BSc in Physics)

April 2020 - Present

Massachusetts General Hospital

"Generative adversarial networks (GAN) for rapid CEST-MRI analysis"

Rohith Maraka (High School Research Intern)

October 2020 - February 2021

Massachusetts General Hospital

"Exploring machine-learning-based methods for accelerating molecular MRI"

Venkata Macha (MD student)

April 2020 - October 2020

Massachusetts General Hospital

"Deep neural networks for multi-metabolite CEST imaging"

ORGANIZATION OF SCIENTIFIC SESSIONS AT INT. CONFERENCES

P. R. Delgado, N. Nystrom, and **O. Perlman** (session organizers), "New innovations and alternatives to conventional contrast agents," Member Initiated Symposium, *International Society of Magnetic Resonance in Medicine (ISMRM)*, Virtual, August. 2020.

STUDENT EDITOR

IEEE Journal of Translational Engineering in Health and Medicine

January 2016 - March 2018

JOURNAL PAPERS REVIEW

Public reviewer profile (Publons): <https://publons.com/researcher/1378058/or-perlman/>

- NeuroImage
- Scientific Reports
- Magnetic Resonance in Medicine
- Journal of Magnetic Resonance Imaging (JMRI)
- NMR in Biomedicine
- Tomography
- IEEE Reviews in Biomedical Engineering
- IEEE Transactions on Biomedical Engineering (TBME)
- IEEE Journal of Biomedical and Health Informatics (J-BHI)
- IEEE Transactions on Automation Science and Engineering (T-ASE)
- Journal of Nanobiotechnology
- Journal of Biomedical Informatics (JBI)
- SN Applied Sciences (Springer)
- Neural Computing and Applications (Springer)

GRANT REVIEW

UK Research and Innovation, Medical Research Council

May 2021

CONFERENCE REVIEW

Int. Soc. for Magnetic Resonance in Medicine (ISMRM) Annual Meeting

Nov. 2021 - Dec. 2021

World Molecular Imaging Congress (WMIC), Miami, Florida

May 2021 - August 2021

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- World Molecular Imaging Society (WMIS), Member
- Institute of Electrical and Electronics Engineers (IEEE), Member
- Japan Society for the Promotion of Science (JSPS), HOPE Fellow
- International Society for Magnetic Resonance in Medicine (ISMRM), Trainee Member

WORKING GROUPS

Standard Operating Procedures for the Creation and Sharing of Phantoms
Reproducible Research Study Group
International Society for Magnetic Resonance in Medicine (ISMRM)

February 2022 - Present

OUTREACH ACTIVITIES

- Lecturing about molecular imaging for cancer treatment monitoring
Beacon Hills Seminars, Beacon Hill, MA, USA *February 2022*
- Engaging with and lecturing preschool children about science, magnets & MRI
Cambridge, MA, USA *August 2020*
- Lecturing senior citizens on the physics behind ultrasound, MRI & CT
Shomrat, Israel *July 2018*
- Lecturing high school students on medical imaging
Technion - Israel Institute of Technology *January 2015 - January 2018*