

Curriculum Vitae

John-Ross (J.R.) Rizzo, M.D., M.S.C.I.

Contact Information

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Additional Information

Place of birth: Wayne, NJ, USA

Current Appointments and Leadership Positions

2015-Present	Assistant Professor of Rehabilitation Medicine, Rusk Institute	Tenure-eligible	New York University School of Medicine, New York, NY
2015-Present	Assistant Professor, Department of Neurology	Tenure-eligible	New York University School of Medicine, New York, NY
2017-Present	Associate Director, NYU Wireless Center (Electrical Computer Eng.)	Tenure-eligible	NYU Tandon School of Engineering, New York, NY
2017-Present	Mechanical & Aerospace Engineering (Associate)	Tenure-eligible	NYU Tandon School of Engineering, New York, NY
2018-Present	Biomedical Engineering (Core)	Tenure-eligible	NYU Tandon School of Engineering, New York, NY

Hospital Appointment

N/A

Administrative Leadership Positions

2014-	Director, Rusk Residency Research Program	New York University School of Medicine, New York, NY
2015-	Director, Visuomotor Integration Laboratory (VMIL)	New York University School of Medicine, New York, NY
2015-	Director, Rehabilitation Engineering Alliance & Cntr. Transforming Low Vision (REACTIV)	New York University School of Medicine, New York, NY
2015-	Director, Residency Scholarship committee/Research	New York University School of Medicine, New York, NY
2016-	Mentor & Advisor, Rehabilitation Sciences (RHSC-PHD)	NYU-Steinhardt, New York, NY
2016-	Co-Chair Neuro-Musculoskeletal Research Task Force, Rusk Strategic Planning Committee	New York University School of Medicine, New York, NY

2016-	Rusk Rehabilitation Liaison/Lead, NYU SOM Research Concentration Program (University-wide)	New York University School of Medicine, New York, NY
2017-	Advisor/Member, Rusk Virtual Health Committee	New York University School of Medicine, New York, NY
2017-	Mentor & Advisor, NYULMC CTSI MSCI Program	New York University School of Medicine, New York, NY
2018	Mentor, Applied Practice Experience Program	College of Global Public Health, New York University, New York, NY
2018	IRB Board Member	New York University School of Medicine, New York, NY

Education and Training

Education

2004	B.S.	Neuroscience	New York University (NYU), New York, NY
2008	M.D.	Medicine	New York Medical College (NYMC), Valhalla, NY
Internship			
2008-2009	Internal Medicine	Margaret Smith, MD	St. Vincent's Catholic Medical Center, New York, NY
Residency			
2009-2012	Physical Medicine and Rehabilitation	Alex Moroz, MD Steven Flanagan, MD	Rusk Institute, Dept. of Rehabilitation Medicine, New York University Medical Center, New York, NY
Administrative Chief Resident			
2011-2012	Physical Medicine and Rehabilitation	Alex Moroz, MD Steven Flanagan, MD	Rusk Institute, Dept. of Rehabilitation Medicine, New York University Medical Center, New York, NY
Clinical Research Fellowship			
2012-2013	Physical Medicine and Rehabilitation	Alex Moroz, MD Steven Flanagan, MD	Rusk Institute, Dept. of Rehabilitation Medicine, New York University Medical Center, New York, NY
Master of Science			
2015-2017	Translation Research – Clinical Investigation	Michael Pillinger, MD	New York University School of Medicine, New York, NY

Licensure

2012	New York State License for Medicine	269257
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Previous Appointments and Leadership Positions

Faculty Academic Appointments

2013-2014	Clinical Instructor, Department of Rehabilitation Medicine	New York University School of Medicine, New York, NY
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Other Professional Positions

Tactile Navigation Tools (MedTech Venture)	Chief Medical Advisor
Tactonic (MedTech Venture)	Chief Medical Advisor
Physiclo (MedTech Venture)	Chief Medical Advisor
ACRM Stroke-ISIG	Stroke-ISIG Education Liaison

Awards, Honors, and Memberships in Honorary Societies

Internal

2004	NYU Founders Day Award (Scholastic Achievement)
2004	NYU Honors Thesis
2004	NYU Scholar Honor Program
2004	NYU Dean's Honor Roll
2011	Resident House Staff Council Member
2011	Rusk Unit Chief/HJD Unit chief/Bellevue Unit Chief
2012	Awardee of NYUMC Physician Scientist Training Program (PSTP)

External

2007	Represented New York Medical College at the 9 th Annual American College of Physicians Medical School Board Reviewed Tournament
2008	Dean's Medical Student Research Award – 2 nd Place at NYUMC
2008	Alpha Omega Alpha (AOA) Iota Chapter Member
2012	ACRM Task Force in Stroke Vision Committee Co-Chair/Member
2012	Council for the Study of Disability Member
2014	Crain's New York Business "40 under 40" 2014 Award Recipient for Tactile Navigation Tools
2014	NYCEDC's Health 2.0 Pilot Health Tech NYC Host Award Winner
2014	National Collegiate Inventors and Innovators Alliance E-Team Winner
2014	Foundation for PMR- Richard Materson ERF Research Award Winner (award: early career, new investigator research award)
2014	Smithsonian Nomination for National People's Design of the Year Award
2014	Oxford Center for Entrepreneurs "Rising Star Entrepreneur" 1 st prize
2014	Association of Academic Physiatrists' RMSTP Grant Award Recipient
2015	Rising Star Award New York City- Queens Courier Periodicals
2015	Certificate of Special Congressional Recognition- Leadership, House of Representatives
2015	NYC Community Service- City Council Citation, Exemplary Service, NYC
2015	AAP Electrode Store Best Paper Award in Faculty for Annual Conference (Award: Association for Academic Physiatrists (AAP))

- 2016 Open Minds Showcase and Exhibition for Medical Innovation (Venture Well, formerly National Collegiate Inventors and Innovators Alliance (NCIIA)) for Physical)
- 2016 Top 10 “Newsworthy” Abstracts Awardee, the Association of Academic Physiatrists
- 2016 Forbes/KPMG selected as Great Re-Writer of Healthcare (Med Devices)
- 2017 Mechanical Engineering Magazine highlight “Augmented Eyes” Feature (The American Society for Mechanical Engineers – ASME)
- 2017 National Stroke Association (NSA)/ACRM Young Investigator Award in Post-Acute Stroke Rehabilitation (ACRM: American Congress of Rehab Medicine)
- 2018 Oxford Center for Entrepreneurs “Rising Star Entrepreneur” 1st prize
- 2018 TEDx Speaker, New York City; Medical Disability & Low Vision
- 2018 Deb Wilkerson Early Career Award ACRM and CARF (ACRM: Amer. Congress of Rehab Med; CARF: Commission on Accreditation of Rehab Facilities)
- 2018 AAPMR Phyztalk Finalist

Research Activity

Research Activities

1. Characterizing visually guided action (ocular-manual motor control) in acquired brain injury (stroke): quantifying manual motor control, ocular motor control and then both ocular-manual motor control concurrently while framing the findings in the broader context of eye-hand coordination and within the neuroanatomy and neurophysiology of such an integrated control system.
2. The ocular motor system as a biomarker of cerebral dysfunction: quantifying the ocular motor system as a marker of disease or creating the ability to leverage efferent vision for diagnosis, prognosis and/or intervention
3. Technology in Rehabilitation: integrating technology into the medical practice to better equip clinicians with tools to quantify deficits objectively or to better equip patients with devices to foster rehabilitation goals with the aim of maximizing recovery
4. Assistive Technology for those with Disability: building advanced wearables that map ambient space in three-dimensions and re-display this information through human machine interfaces (bone conduction binaural headsets and/or torso-based, haptic belts)

Grant History

Current

Funding Agency	Role	Project Title	Award Type Grant # Project ID	No-Cost Extension	Effort %	Project Start Date	Project End Date	Annual Project Direct Costs	Annual Project Indirect Costs	Annual Project Total Costs	Total Project Direct Costs	Total Project Indirect Costs	Total Project Costs
NY State Dept. of Health Empire Clinical Research Investigator Program	Co - PI	Performance, Imaging, and Biological Markers for Sports-Related Concussion	NYS DOH	Y	.10	03/16	03/19				\$1.26M		
Kellar Family Foundation	Co - PI	Visual Spatial Exploration and Art Therapy Intervention in Parkinson's Disease	Foundation	N	.10	01/17	12/18				\$512k		
NYU Tandon-NYULMC 'Connect the Dots' Intramural Challenge	PI	Computer Vision to Combat Visual Impairment: Scene Understanding TRANSLATED through Touch and Audio	Intramural	N	.10	07/17	06/19				\$100k		
Parkinson's Alliance	PI	The Walk-Safe Navigator (WSN): An Advanced Wearable for Fall Avoidance in Parkinson's Disease											

Pending

Funding Agency	Role	Project Title	Award Type Grant # Project ID	No-Cost Extension	Effort %	Project Start Date	Project End Date	Annual Project Direct Costs	Annual Project Indirect Costs	Annual Project Total Costs	Total Project Direct Costs	Total Project Indirect Costs	Total Project Costs
NSF S&CC (Smart & Connected Cities)	PI	Low-Vision Aware' Urban Planning: Building an integrated Ecosystem through Connected Wearables for Visually Impaired Citizens			10	09/18	09/22				\$3M		
NIH NEI	Co- PI	The Impact of Mild Traumatic Brain Injury and Concussion on Visual Function, Quality of Life and Recovery	R01		.50	07/18	06/23				\$4.2 M		
DOD	Co- PI	Vision as a Measure of Neurological Impairment and Recovery in Concussion and Traumatic Brain Injury	N/A		.10	07/18	06/21				\$5M		
NSF DARE (Disability and Rehabilitation Engineering)	Co- PI	The Visually Impaired Smart Service System for Spatial Intel & On-board Navigation (VIS ⁴ ION)	N/A		.05	07/18	06/21				\$300 k		

NSF CHS (Cyber Hyman Systems)	Co-PI	Computer Vision towards Functional Scene Understanding: Unpacking Activities of Daily Living through AI for Low Vision (LV)	N/A		.05	07/18	06/21						\$540 k		
Huawei Technologies (Sponsored Research Project)	PI	Interface Architecture Accelerated: Mobile Platforms for Seamless Healthcare Translation	N/A		.20	03/18	04/22						\$1M		
Samsung Global Research Outreach (GRO) Program	Co-PI	The Visually Impaired Smart Service System for Spatial Intel & On-board Navigation (VIS ^{ION})	N/A		.05	06/18	05/19						\$100 k		

Past

Funding Agency	Role	Project Title	Award Type Grant # Project ID	No-Cost Extension	Effort %	Project Start Date	Project End Date	Annual Project Direct Costs	Annual Project Indirect Costs	Annual Project Total Costs	Total Project Direct Costs	Total Project Indirect Costs	Total Project Costs
NIH/NICHD & NCMRR	PI	Eye-Hand Coordination in Stroke	K12HD001097		.75						\$364.1 k		
NCATS	PI	Eye-Hand Coordination in Stroke	UL1 TR000038		.80						\$100k		
NIDILRR	Co-PI	Two phase approach to improving health literacy and disparities among culturally diverse samples of individuals with TBI	90DP0047-01-00		.05								
NCATS	PI	Sensory Augmentation in the Visually Impaired	1UL1TR001445		.10								
NIA	PI	Eye-Hand Coordination in Elderly Stroke	R03 AG042379-01		.50						\$165k		
ARSF (the Office of Industrial Liaison/Technology Transfer)	PI	Omnidirectional Spatial Perception – Expanding Human Capabilities	Intramural		.10						\$62.5k		
Ender's Charitable Trust	PI	Assistive Technology to enhance the independence of the visually impaired	Foundation		.10						\$100k		
NYCEDC, NYC Economic Development Corporation	PI	An Enhanced Time UP and Go Test (eTUGt): Integrating Large-Scale Pressure-Sensing Technology into Care	Pilot Grant		.15						\$100k		

Education Activity

Teaching Activities

- 2014- Co-director and teaching faculty, Resident Research Curriculum, department of Rehabilitation Medicine, formal didactics → 12 hours first year, informal → 2-3 hours biweekly.
- 2014- Lecturer, Stroke Rehabilitation, for residents in the department of Rehabilitation Medicine, variable per year
- 2017- Teaching mentor, for trainees of the Rehabilitation Medicine Scientist Training Program, Annual Conference of Association of Academic Physiatrists.
- 2017- Run groups/panels for various training levels as part of RMSTP Research Training Workshop
- 2017- MSCI Clinical Research teaching mentor/faculty, formal → 3 sessions quarterly; informal → as needed basis, variable
- 2018 Intro to Mechanical engineering, Assistive Tech with a focus on visual impairment (co-teach)

Curriculum development and other innovative educational activities

- 2014- Co-director and teaching faculty, Resident Research Curriculum, department of Rehabilitation Medicine, formal didactics → 12 hours first year, informal → 2-3 hours biweekly.

Invited Talks and Teaching of Peers

- 2013- Lead Panelist/Speaker NYU Disability Panel 1st-2nd Year Medical Students New York University School of Medicine, New York, NY
- 2016- Lead Panelist/Speaker NYU Intro to Biomed Entrepreneurship Panel Students and Faculty of all Ages New York University School of Medicine, New York, NY

Internal

- 2015 *Eye-Hand Coordination in Stroke*. Translational Research In Progress (TRIP) Seminar, Clinical and Translational Science Institute (CTSI), NYULMC, New York, NY
- 2015 *Eye-Hand Coordination in Stroke*. Rusk 65th Rehabilitation Medicine Research Symposium, NYULMC, New York, NY
- 2015 *Objectifying Eye Movements during Rapid Number Naming Tasks: A Normative Data Set for the King-Devick Test*. Rusk-HHC Bellevue Grand Rounds Presentation, NYULMC, New York, NY
- 2016 *Spatial Perception Augmented: Wearables meets the Visually Impaired*, NYU President's Inauguration Celebration, New York, NY
- 2017 *Bio-Medical Devices*, NYULMC Biomedical Entrepreneurship Program Inaugural Launch Session, New York, NY
- 2017 *Destroying Visual Disabilities through Wearable Assistive Technology: The VIS⁴ION Platform*, Mechanical & Aerospace Engineering Grand Rounds, Brooklyn, NY
- 2017 *AI-Driven Smart Wearable Assistive Technology in the Visually Impaired: The VIS⁴ION Platform*, NYU Wireless Board Meeting and 5G Telecommunications Summit, Brooklyn, NY

- 2017 *Augmenting Humans with Bionic Senses and Robotic Vision: Smart Wearable Assistive Technology for the Visually Impaired*, Musculoskeletal Executive Advisory Board, Hospital for Joint Diseases, New York, NY
- 2018 *AI breaks Disability through Wearable Assistive Technologies: The VIS4ION System*. NYU Wireless Board Meeting and 5G Telecommunications Summit, Brooklyn, NY
- 2018 *Is the Eye really coordinated with the Hand? (Stroke)*. Rusk Research Symposium, New York, NY
- 2018 *Augmented Reality to Wearables-Technology 'Unpacked'*. Insure Tech VIP day at Courant at NYU
- 2018 *The breakdown of eye-hand coordination in stroke*. Neuropsychology Grand Rounds, Rusk Rehabilitation, New York, NY
- 2018 *Disability Workarounds through Wearable Assistive Technologies: The VIS4ION System*. NYU Ophthalmology Grand Rounds, New York, NY
- 2018 *Intelligent Cognitive Assistants that can "See."*. NYU Wireless, New York, NY
- 2018 *The Eye-Hand Mystique: Visuomotor Integration and Stroke Circuitry*, Rusk Rehabilitation Grand Rounds, New York, NY
- 2019 *Mobile Cognitive Orthotics with "Vision", Wearables that boost function*, NYU Wireless Open House and Industrial Affiliate Recruitment Day (Keynote), New York, NY

External to NYU Langone Health and all other NYU schools

- 2004 *The Effects of Hearing Loss on Neonatal Vocalizations in Gerbil*. Oral Presentation at the Eastern Auditory Retreat (EARs), University of Pennsylvania, Philadelphia, PA
- 2006 *The Effects of Hearing Loss on Vocal Behavior in the Developing Gerbil*. Oral Presentation at the Eastern Auditory Retreat (EARs), Columbia University, New York, NY
- 2012 *Visuomotor Integration & Eye-Hand Coordination for Functional Vision Rehabilitation (FVR)*. Annual Conference for NABIS (North American Brain Injury Society), Miami, FA
- 2012 *Visuomotor Integration & Eye-Hand Coordination for Functional Vision Rehabilitation (FVR)*. Annual Conference for NABIS (North American Brain Injury Society): Miami, FA
- 2013 *Functional Vision / Visuomotor Integration & Eye-Hand Coordination for Functional Vision Rehabilitation (FVR)- Updates*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine) Orlando, FL
- 2014 The effects of emotionally charged auditory stimulation on gait performance in the elderly: a preliminary study. Annual Conference for the Association of Academic Physiatrists (AAP) Nashville, TN
- 2015 *Motor Planning Post Stroke: Impairment in Vector-coded but not in Target-coded Reach Plans*. Annual Conference for the Association of Academic Physiatrists (AAP) San Antonio, TX
- 2015 *Creative Technologies for Persons with Disabilities: The Future is Now. Tactile Navigation Tools Assistive Technology (Low Vision)*. Intl. Council for Caring Communities (ICCC). **United Nations**, New York, NY
- 2015 *Eyes, Ears and Knows: Pediatric and Adolescent Concussion: Vision Meets Balance on the Sidelines*. IBIA: International Pediatric Brain Injury Society, Liverpool, UK
- 2015 *Eye Movements and ABI*. Annual Conference for the AAPMR (American Academy of Physical Medicine & Rehabilitation) Boston, MA

- 2015 *Vision in Concussion*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine) Dallas, TX
- 2015 *Ocular motor Dysfunction in Brain Injury*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine) Dallas, TX
- 2016 *The Visual Performance of Non-Native versus Native English Speakers on a Sideline Concussion Screen: An Objective Look at Eye Movement Recordings*. Annual Conference for the Association of Academic Physiatrists (AAP) [Scientific Paper Presentation-upgraded RMSTP Plenary] Sacramento, CA
- 2016 *The Visual Performance of Non-Native versus Native English Speakers on a Sideline Concussion Screen: An Objective Look at Eye Movement Recordings*. Annual Conference for the Association of Academic Physiatrists (AAP) [Plenary] Sacramento, CA
- 2016 *Assistive Technology Solutions: A Paradigm Shift in Navigation for the Visually Impaired*. NYU Health tech 2016: Apps, Gadgets, and Gizmos. New York, NY
- 2016 *Assistive Technology Solutions: Exo-centric Wearables*. NYU Tandon School of Engineering Mini-Symposium with Tampere University of Applied Sciences and University of Tampere (Finland). New York, NY
- 2016 *Current and Future Research in MMA* (research presented by Jon Gelber, M.D), the Association of Ringside Physicians Annual Meeting, Las Vegas, NV
- 2017 *'Connected' Medical Devices – Telecommunication/mobile Health (mHealth) Symposium*, New York, NY
- 2017 *Breaking Barriers through Bionic Senses and Cybernetics: AI-Driven Smart Wearable Assistive Technology for the Visually Impaired, Meetings the Demands of the 21st Century Through Innovative Technology*, 10th Session of the Conference of State Parties to the UNCRPD, enable Symposium, **United Nations**, New York, NY
- 2017 *Assistive Technology Unloaded: Bionic Senses towards Novel Wearables & Fusion Mechanical Solutions for those with Low Vision*, Helen Keller National Center, Port Washington, NY
- 2017 *Managing Recovery Inertia in Complex Phenotypes: A Case Study Model*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine), Atlanta, GA
- 2017 *Eye Control Deficits coupled to Hand Control Deficits: Eye-Hand Incoordination in Chronic Stroke*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine), Atlanta, GA
- 2018 *Real-Deal Wearables: Intelligent Monitoring for Blind 'spot' Protection*. NYAS (New York Academy of Science) Science and Engineering innovation Expo
- 2018 *Deb Wilkerson Award Lecture: From Eye-Hand Coordination to Incoordination: Stroke Circuitry, Computational Load and Motor-Motor Dual Tasks*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine), Dallas, TX.
- 2018 *Vision Assessment after Acquired Brain Injury*. Annual Conference for the ACRM (American Congress of Rehabilitation Medicine), Dallas, TX.
- 2018 *Eye-Hand Coordination to Incoordination and Stroke Circuitry*. Chairman's Rounds Cleveland Clinic, Cleveland, OH
- 2018 *Low-Vision Aware Urban Planning*. Workshop on Smart and Accessible Transportation – Research Integration and Community Engagement (SAT-RICE), New York, NY
- 2018 *New Frontiers in Assistive Technology: What TO DO for Visual Disability*, Burke Rehabilitation Hospital Grand Round, New York, NY

- 2019 *Industrial Partnerships: The Path Forward on HOW-TO get moving*, The American Academy of Physiatry Conference(AAP), San Juan, PR, 2019
- 2019 *Research inspiration for the trainee: Medical School, Residency and Fellowship*, The American Academy of Physiatry Conference(AAP), San Juan, PR, 2019
- 2019 *Vision and Gait*, Ophthalmologic features of Parkinson's Disease, Lenox Hill Hospital, New York, NY
- 2019 *Role of Visuo-Spatial Rehabilitation in PD*, Ophthalmologic features of Parkinson's Disease, Lenox Hill Hospital, New York, NY
- 2019 *Open Discussion: Future Directions of Ophthalmological Standards, Collaborative Care*, Ophthalmologic features of Parkinson's Disease, Lenox Hill Hospital, New York, NY
- 2019 *Creating opportunity for all in the disrupted world*, Keynote Speaker, Mahidol University, Thailand

Mentoring and Advising

Predoctoral students supervised and/or mentored

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| Paul Phamduy (2012-) * | Ph.D. student in Mechanical Engineering, NYU Tandon School of Engineering, Project: Torso-based Haptic Interfaces for Assistive Technology (Visually Impaired Focus) → Gen 1 |
| Weiwei Dai (2013-) * | Ph.D. student in Electrical Engineering, NYU Tandon School of Engineering. Data Analyst at NYU Langone Medical Center. Project: Developed programs to visualize and analyze eye movements. |
| Liang Niu (2015-) * | Ph.D. student in Computer Science and Engineering, NYU Tandon School of Engineering. Project: computer vision, especially medical image processing and leveraging adversarial networks |
| Kevin Jose (2016-) | Ph.D. student in Mechanical Engineering at Tandon School of Engineering. Project: Torso-based Haptic Interfaces for Assistive Technology (Visually Impaired Focus) → Gen 2 |
| Hanzhang Cui (2017-) | Master's Graduate student in Computer Science and Engineering, NYU Tandon School of Engineering. Project: Computer Vision for for Assistive Technology (Visually Impaired Focus) → Cross-Safe |
| Shane Enright (2017-) * | Rising senior at Syracuse university majoring in biotechnology. Research internship: primary research focus is currently in assistive technology for visually impaired individuals |

Emanuel Belen (2018-)	Bachelor of Science in Mechanical Engineering from NYU Tandon School of Engineering, presently: focus on Data Analyst at Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine. Research Assistant, NYU Langone's Comprehensive Epilepsy Center
Andre Dubovskiy (2018-)	Junior at Hunter College high school. Research internship: Haptic navigation for the blind and visually impaired project. Andrey is a member of Advanced Science Research Seminar. In his first year in ASRS, He won First Place in Engineering as well as the Frank W. & Jane J. Stahl Memorial Award for Technical Excellence at the New York City Science and Engineering Fair . He is also the captain of his high school FIRST Robotics Competition (FRC) Team.
Frank Bubbico (2018-)	Sophomore at Putnam Valley High School. He is a member of their Science Research program. Research internship: Haptic navigation for the blind and visually impaired project.
Connor Joseph Tupper (2018-)	Graduating Senior from Northwestern College (IA), Exercise Science major (Psychology minor). A member of the Northwestern College Honor Program. Research internship: Eye hand coordination training in sport project.
Sam Morris, (2018-)	Second year medical student at NYU Medical School, research internship focuses on haptic navigation for the blind and visually impaired.
Purva Patel (2018-)	Master's Graduate student in in Mechanical Engineering at Tandon School of Engineering. Project: Torso-based Haptic Interfaces for Assistive Technology (Visually Impaired Focus) → Gen 2

Postdoctoral students supervised and/or mentored

Andrew Abdou DO (2013-2014) *	Research gap year at Rusk Rehabilitation in the Visuomotor Integration Laboratory. Project focus: various. Presently completing medical residency (PM&R) at Mt. Sinai and accepted into competitive Stroke Rehab Fellowship at Kessler Rehab in NJ (2018-9).
Ninad Desai, MD (2014-15) *	Research fellowship (FMG) at Neuro Eye Tracking Laboratory & Rusk Rehabilitation in the Visuomotor Integration Laboratory. Project focus: various. Presently completing medical residency (Neurology) stateside at Yale.
Joel Birkemeier, MD (2015-16) *	Research fellowship (FMG) at Neuro Eye Tracking Laboratory & Rusk Rehabilitation in the Visuomotor Integration Laboratory. Project focus: various. Presently completing further master's training in occupational and international public health.
James K. Fung, DO (2015-16) *	Research gap year at Rusk Rehabilitation in the Visuomotor Integration Laboratory. Project focus: Eye-Hand Coordination/Variou. Presently completing a master's program at Columbia in public health and applying to PM&R residency
Eric Alan Wong (2015-17) *	Research fellowship in the Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine. Presently works as Internist in Philadelphia. Project: Eye-Hand Coordination/Variou.

Maryam Hosseini, MD (2016) *	Research fellowship (FMG) in the Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine. Project: Various e.g.: The Intersection between Ocular and Manual Motor Control: Eye-Hand Coordination in Acquired Brain Injury Presently Resident in Rehabilitation Medicine (PM&R), Montefiore Medical Center, New York, NY
Azadeh Shafieesabet MD (2017) *	Research fellowship (FMG) in the Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine. Project: Various, e.g., Eye Control Deficits Coupled to Hand Control Deficits: Eye-Hand Incoordination in Chronic Cerebral Injury . Presently completing a highly competitive research fellowship in The Center for Stroke Research Berlin at the Charité – Universitätsmedizin
Mahya Beheshti, MD (2017-) *	Research fellowship (FMG) in the Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine. Project: Various. Awarded, Distinguished Alumni of GMU, “ Award of HEALTHCARE: ACADEMIA ”
Farnia Faiz, MD (2018-) *	Foreign Medical Graduate and Second year MPH student at NYU. Intern in the Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine. Project: Various. Awarded Wasserman Center Internship Grant .
David Ramirez (2017-)	Post-doctoral researcher at NYU Wireless. Project: enabling bionically sighted wearable technology.
Moutushi Kundu (2018-)	Foreign Medical Graduate and Second year MPH student at NYU. Intern in the Visuomotor Integration Laboratory, Rusk Rehabilitation, New York University School of Medicine.

Institutional, Local/National Service and Related Activity

Institutional Service

2016	Board Member, Envision Research Institute; Wichita, Kansas
2016	Board Member, VETHack; New York, New York

Professional Service

2004	American Medical Student Association
2004	American Medical Association
2004	American College of Physicians
2007	Alpha Omega Alpha (AOA) Medical Honors Society
2009	American Academy of PM&R (AAPMR)
2009	Association of Academic Physiatry (AAP)
2009	American Congress of Rehabilitation Medicine (ACRM)
2017	Association of Academic Physiatrists Research Committee

2018 American Heart Association

Advisory Boards and Consultant Positions

2014 Co-Chair Stroke Vision Task Force, American Congress of Rehabilitation Medicine
2018 Stroke Council – American Heart Association

Organizing Roles in Scientific Meetings

06/2018 Co-Chair The HealthTech Symposium at NYU SOM, New York, NY
07/2018 Co-Chair 2nd NYU Biomedical and Biosystems Conference, New York, NY

Editorial and Journal Positions

Editorial Board Positions

2016-	Journal of Allied Health	Editorial Board Member
2017-	Journal of Assistive Technology	Editorial Board Member
2018-	Journal of Assistive Technology	Associate Editor

Ad Hoc Reviewer

2012 Journal of Neuroscience Methods
2016 Journal of Allied Health
2016 Journal of Assistive Technology
2017 British Journal of Visual Impairment
2017 Archives of Physical Medicine and Rehabilitation
2017 American Journal of Physical Medicine and Rehabilitation
2017 Journal of Brain injury
2017 American Journal of Neuroradiology
2018 Preventive Medicine Reports
2018 Assistive Computer Vision and Robotics
2018 Journal of Clinical Medicine
2018 Neurotrauma Journal

Community Service, Volunteer Activities, and Teaching of Patients

2015-	Lecturer	Annual Community lecture	Rusk Rehabilitation	New York, NY
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Bibliography

Publications

Peer-reviewed Publications

1. Traeger, Z.T., **Rizzo, J.R.** and Rashbaum, I., 2011. Refractory Venous Thrombus Propagation in the Setting of Therapeutic Anticoagulation. *American journal of physical medicine & rehabilitation*, 90(10), p.873.
2. Liu, J., Forzani, B.R., **Rizzo, J.R.** and Moroz, A., 2013. Using Multiple Leadership Roles in a Residency Training Program to Develop Future Leaders in Physiatry. *PM&R*, 5(9), p.S314.
3. **Rizzo, J.R.**; Illig, A; Gaitour, L. Progressive Left Arm Weakness. AAPM&R Case of the Month, MSK Case #30. November 2012, <http://me.e-aapmr.org/CaseStudies.aspx>
4. Burkard, G., Paul, J.C. and **Rizzo, J.R.**, 2014. Objective Mobility in Idiopathic Adolescent Scoliosis: A How-To on Objectifying Function to Facilitate Management Decisions. *J Pain Relief*, 3(165), pp.2167-0846.
5. Abdou, A., Liu, J., Carroll, M., Vivaldi, G., **Rizzo, J.R.** and Im, B., 2015. Motor and neurocognitive recovery in the syndrome of the trephined: a case report. *Annals of physical and rehabilitation medicine*, 58(3), p.183.
6. Bilaloglu, S., Lu, Y., Geller, D., **Rizzo, J.R.**, Aluru, V., Gardner, E.P. and Raghavan, P., 2015. Effect of blocking tactile information from the fingertips on adaptation and execution of grip forces to friction at the grasping surface. *Journal of neurophysiology*, 115(3), pp.1122-1131.
7. Paul, J.C., Petrizzo, A., **Rizzo, J.R.**, Bianco, K., Maier, S., Errico, T.J. and Lafage, V., 2015. Feasibility of a Cost-Effective, Video Analysis Software–Based Mobility Protocol for Objective Spine Kinematics and Gait Metrics: A Proof of Concept Study.
8. **Rizzo, J.R.**, Raghavan, P., McCrery, J.R., Oh-Park, M. and Verghese, J., 2015. Effects of emotionally charged auditory stimulation on gait performance in the elderly: a preliminary study. *Archives of physical medicine and rehabilitation*, 96(4), pp.690-696.
9. **Rizzo, J.R.**, Hudson, T.E., Abdou, A., Rashbaum, I.G., George, A.E., Raghavan, P. and Landy, M.S., 2015. Motor planning poststroke: impairment in vector-coded reach plans. *Physiological reports*, 3(12).
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39. **Rizzo, J.R.**; Mahya Beheshti; James Fung; Janet C. Rucker; Todd E. Hudson. Efficiently Recording The Eye-Hand Coordination To Incoordination Spectrum, the *Journal of Visualized Experiments (JoVE)* (invited manuscript/in press)
40. **J.R. Rizzo***, Hanzhang Cui*, Xiang Li, Edward Wong, Yi Fang, Cross-Safe: A computer vision-based approach to make all intersection-related pedestrian signals accessible for the visually impaired. *Advances in Intelligent Systems and Computing-2019* (in press)
41. **Rizzo, J.R.**; Beheshti, M; Shafieesabet, A; Fung, J; Rucker, J; Hudson, TE. Eye-Hand Reoordination in Chronic Stroke. *Progress in Brain Research*. (invited manuscript - conditionally accepted)
42. Lance M. Optican¹, Janet C. Rucker², **J.R. Rizzo**, Todd E. Hudson. Modeling Gaze Position-Dependent Opsoclonus. *Progress in Brain Research*. (invited manuscript - conditionally accepted)
43. **Rizzo, J.R.**; Beheshti, M; Faiz F, Belen E, Hudson T, Shaikh A. Is All Coordination Built Equal: Differences between the Cerebrum and Cerebellum. *Cerebellum Journal* . (invited manuscript - conditionally accepted)
44. **Rizzo, J.R.**; Rucker, J. Practical Applications of Eye Movement Recording. *Seminars in Neurol*. (invited manuscript - conditionally accepted)

Peer-reviewed conference publications

1. Grau, A.M., Hendee, C., **Rizzo, J.R.** and Perlin, K., 2014, April. Mechanical force redistribution: enabling seamless, large-format, high-accuracy surface interaction. In *Proceedings of the 32nd annual ACM conference on Human factors in computing systems* (pp. 4137-4146). ACM.
2. **Rizzo, J.R.**, Niu, L., Qian, C., Rizzo, J.R., Hudson, T.E., Li, Z., Enright, S., Sperling, E., Conti, K., Wong, E.K. and Fang, Y., 2017, October. A Wearable Assistive Technology for the Visually Impaired with Door Knob Detection and Real-Time Feedback for Hand-to-Handle Manipulation. In *ICCV Workshops* (pp. 1500-1508).
3. **Rizzo, J.R.**, Pan, Y., Hudson, T., Wong, E.K. and Fang, Y., 2017, April. Sensor fusion for ecologically valid obstacle identification: Building a comprehensive assistive technology platform for the visually impaired. In *Modeling, Simulation, and Applied Optimization (ICMSAO), 2017 7th International Conference on* (pp. 1-5). IEEE.
4. Shoureshi, R.A., **Rizzo, J.R.** and Hudson, T.E., 2017. Smart Wearable Systems for Enhanced Monitoring and Mobility. *Advances in Science & Technology*, 100.
5. Dai, W., Selesnick, I., **Rizzo, J.R.**, Rucker, J., & Hudson, T. (2017). A parametric model for saccadic eye movement. In *2016 IEEE Signal Processing in Medicine and Biology Symposium, SPMB 2016 - Proceedings* [7846860] Institute of Electrical and Electronics Engineers Inc.
6. **J.R. Rizzo***, Hanzhang Cui*, Xiang Li, Edward Wong, Yi Fang, Cross-Safe: A computer vision-based approach to make all intersection-related pedestrian signals accessible for the visually impaired. *The Computer Vision Conference (CVC) 2019*

Under Review

1. **Rizzo, J.R.**, Hreha, K, Wertheimer, J, Kaldenberg J, Hironaka D, Riggs R, Colenbrander A, Roberts PS, Eye-Hand Coordination Assessments: A Survey-based Investigation focused on Practice Implications

Book Chapters, Books

1. Bonder, J., **Rizzo, J.R.**, Chowdhury, N. and Sayegh, S., 2013. Musculoskeletal pelvic pain and pelvic floor dysfunction. In Rehab Clinical Pocket Guide (pp. 467-486). Springer, New York, NY.
2. Burkard, G; **Rizzo, J.R.**; Heckman, J. "Prosthetics." Rehab Clinical Pocket Guide. Ed. Kimberly Sackheim, New York: Springer, 2013. 529-58. Print.
3. Babeendran, S; **Rizzo, JR**; Moroz, A. "Medical Acupuncture." Rehab Clinical Pocket Guide. Ed. Kimberly Sackheim, New York: Springer, 2013. 615-26. Print
4. Abdou, A; **Rizzo, J.R.**; Liu, J. "Pain History." Pain Management and Palliative Care. Ed. Kimberly Sackheim, New York: Springer, 2015. 7-12. Print.
5. Ahn, J; **Rizzo, J.R.**; Rojas, A-M. "Stroke Rehabilitation." Motor Disorders. Motor Disorders, 3rd Ed. David Younger. Connecticut: Rothstein Publishing, 2015. 899-906. Print.
6. Kapoor, N; **Rizzo, J.R.**; Jaramillo; Allred, D. "Sensory and System Deficits after TBI." Traumatic Brain Injury Rehabilitation Medicine. Ed. David Xifu, Ed. Blessen Eapen. London: Future Medicine, 2015. 76-98. Print
7. **Rizzo, J.R.**; Kapoor, N. Visuospatial Impairment. Stroke Rehabilitation. Eds. Preeti Raghavan & Richard Wilson. New York: Elsevier, 2017
8. Kapoor, N; Balcer, L; **Rizzo, J.R.**, Vision Problems. Textbook of Traumatic Brain Injury, 3rd Ed. Eds. Jonathan Silver, Thomas McAllister, Stuart Yudofsky. American Psychiatric Publishing. London, 2018.
9. Rucker, JC; Hudson, TE; **Rizzo, J.R.**, Advances in Translational Neuroscience of Eye Movement Disorders: Translational Neurology of Slow Saccades. New York: Elsevier, 2018. (Pending)
10. Roberts, P; Hreha, K; Ouelette, D; **Rizzo, J.R.**, Foundations of the Visual System. Eds. Steven Page & Glen Gillen. MIT Press, (Pending)
11. **Rizzo, J.R.**, Beheshti, M, Wainapel SF, Rehabilitation of Patients with Severe Visual or Hearing Impairments: Innovations for Person-Centered Function. Physical medicine and rehabilitation secrets. Lippincott Williams & Wilkins, 2019 (Pending)

Media appearances

2012	Hope in Sight for Visually Impaired	Interview, Forbes Magazine Forbes/Hope In Sight
2013	Stroke ISIG Member Spotlight	Interview, Stroke-ISIG StrokeMatters
2014	The Visionary	Interview, Crain's New York Business crainsnewyork/40under40
2014	Far-Sighted	Interview, NY Post
2014	Stick Shift	Interview, NYU Physician Magazine
2014	Vibration Cloths Could Help Blind People Navigate	Interview, Live Science livescience-vibrating-clothes-help-blind
2016	Research in Rehabilitation	Radio interview. NYC

2015	Physician Gains Great Insight from Losing His Sight	Interview, MD Magazine mdmag-GainGreatInsight
2017	High-Tech eyes	Mechanical Engineering Magazine Vol. 139, No. 3 memagazineselect-High-Tech-Eyes
2018	Re-Vision	Speaker, TEDx NYU
2018	Eye-Hand Coordination in ABI	Interview with president of StartUp Health, Unity Stokes StartUp Health
2018	Technology and Rehabilitation	Dr. Radio- Live SiriusXM, Hosted by: Dr. Jonathan Whiteson

Poster Presentation

1. Hainline, C; Rizzo, JR; Hudson, TE; Hasanaj, L; Nolan, R; Kister, I; Balcer, L; Galetta, G; Rucker, J. Capturing the Efferent Side of Vision in Multiple Sclerosis: New Data from a Digitized Rapid Number Naming Task. Poster presentation at the Annual Conference for the North American Neuro-Ophthalmology Society, Tucson, AZ, 2016
2. Birkemeier, J; Pasculli, R; Conti, K; Feinberg, C; Verstraete, J; Dempsey, K; Selesnick, I; Hudson, TE; Balcer, L; Galetta, G; Rucker, J; Rizzo, JR. The Visual Performance of Non-Native versus Native English Speakers on a Sideline Concussion Screen: An Objective Look at Eye Movements. Poster presentation at the Annual Conference for the Association of Academic Physiatrists, Sacramento, CA, 2016
3. Yousefi, A; Bilaloglu, S; Rizzo, JR; Lu, Y; Raghavan, P. Gaze pattern differences inform hand posture to object shape during reach-to-grasp. Poster presentation at the Annual Conference for the Society for Neuroscience, San Francisco, CA, 2016
4. Rizzo, JR; Hudson, TE; Weiwei, D; Birkemeier, J; Pasculli, R; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. Rapid Number Naming in chronic concussion: eye movements in the King-Devick test. Poster presentation at the Annual Conference for the Association of Academic Physiatrists, Las Vegas, NV, 2017
5. Hudson, TE; Cobbs, L; Rizzo, JR; Weiwei, D; Balcer, L; Galetta, G; Rucker, J. Video-oculographic recording of the electronic Mobile Universal Lexicon Evaluation System (eMULES) rapid picture naming task, Poster presentation at the Annual Conference for the North American Neuro-Ophthalmology Society Washington, DC, 2017
6. Weiwei, D; Hudson, TE; Rizzo, JR; Balcer, L; Galetta, G; Rucker, J. Saccade sequences and Rapid Number Naming in Chronic Concussion. Poster podium presentation at the Annual Conference for the North American Neuro-Ophthalmology Society, Washington, DC, 2017
7. Lloyd-Smith; A; Weiwei, D; Hudson, TE; Rizzo, JR; Balcer, L; Galetta, G; Zee, D; Rucker, J. Gaze-Position Dependent Opsoclonus in Post-Concussive Syndrome. Poster podium presentation at the Annual Conference for the North American Neuro-Ophthalmology Society, Washington, DC, 2017
8. Raynowska; J; Rizzo, JR; Weiwei, D; Hudson, TE; Balcer, L; Galetta, G; Zee, D; Rucker, J. Performance of a Portable Eye Tracker to Assess Eye Movements During the King-Devick Test. Poster podium presentation at the Annual Conference for the North American Neuro-Ophthalmology Society, Washington, DC, 2017
9. Niu, L; Qian, C; Wong, E; Fang, Y; Hudson, T; Rizzo, JR. AI-driven Spatially Intelligent Platforms: A Foundation for Smart Wearable Assistive Technology in Low Vision at the NYU Wireless Board Mtg and 5G Summit for Telecommunication, Brooklyn, NY, 2017
10. Raynowska, J; J; Weiwei, D; Rizzo, JR; Hudson, TE; Chaudhry, Y; Hasanaj, L; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. The Validity of an Eye Tracker with Low Temporal Resolution to Assess Eye Movements during a Rapid Number Naming Task: Performance of the EyeTribe versus the EyeLink in Controls. Poster podium presentation at the Annual Conference for the American Academy of Neurology, Boston, MA, 2017
11. Lloyd-Smith; A; J; Weiwei, D; Rizzo, JR; Hudson, TE; Chaudhry, Y; Hasanaj, L; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. Gaze-Position Dependent Opsoclonus in Post-Concussive Syndrome. Poster podium presentation at the Annual Conference for the American Academy of Neurology, Boston, MA, 2017
12. Cobbs, L; Hudson, TE; Rizzo, JR; Weiwei, D; Balcer, L; Galetta, G; Rucker, J. Mobile Universal Lexicon Evaluation System (MULES): Pre-Season Baseline Concussion Testing for a New Measure of Rapid Picture

- Naming. Poster podium presentation at the Annual Conference for the American Academy of Neurology, Boston, MA, 2017
13. Gold, D; J; Weiwei, D; Rizzo, JR; Hudson, TE; Chaudhry, Y; Hasanaj, L; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. Saccade Sequences and Rapid Number Naming in Concussion. Poster podium presentation at the Annual Conference for the American Academy of Neurology, Boston, MA, 2017
 14. Niu, L; Qian, C; Wong, E; Fang, Y; Hudson, TE; Rizzo, JR. AI-driven Spatially Intelligent Platforms: A Foundation for Smart Wearable Assistive Technology in Low Vision. NYU Wireless Board Meeting and 5G Telecommunications Summit, Brooklyn, NY, 2017
 15. Yousefi, A; Bilaloglu, S; Stone, J; Rizzo, JR; Lu, Y; Raghavan, P. Eye-Hand Coordination during reaching to grasp task in the real world. Poster presentation at the Annual Conference for the Society for Neuroscience, Washington, DC, 2017
 16. Dai, W; Selesnick, I; Rizzo, JR; Rucker, JC; Hudson, TE. The Pathway of Quantitative Saccade Analysis. David A Robinson Symposium at Johns Hopkins Medical Center, Baltimore, Maryland, 2017
 17. Rizzo, JR; Landy, MS; Raghavan, P; Rucker, J; Hudson, TE. Eye Hand Incoordination in Chronic Stroke. Poster presentation at the Annual Conference for the Association of Academic Physiatrists, Atlanta, GA, 2018
 18. Rizzo, JR; Hudson, TE; Weiwei, D; Balcer, L; Galetta, G; Rucker, J Sandbagging' a Vision Test for Concussion-based Sideline Assessment: An Eye Movement Investigation Objectively Reveals the 'Gamers' Strategies. Poster podium presentation at the Annual Conference for the North American Neuro-Ophthalmology Society, Kona, HI, 2018
 19. Gold, D; J; Weiwei, D; Rizzo, JR; Hudson, TE; Chaudhry, Y; Hasanaj, L; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. Relation of Quantitative Eye Movements with Cognitive Dysfunction in Patients with Concussion. Poster podium presentation at the Annual Conference for the North American Neuro-Ophthalmology Society, Kona, HI, 2018
 20. Lloyd-Smith; A; J; Weiwei, D; Rizzo, JR; Hudson, TE; Chaudhry, Y; Hasanaj, L; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. Mobile Universal Lexicon Evaluation System (MULES) in MS: Evaluation of a New Visual Test of Rapid Picture Naming. Poster podium presentation at the Annual Conference for the American Academy of Neurology, Los Angeles, CA, 2018
 21. Gold, D; J; Weiwei, D; Rizzo, JR; Hudson, TE; Chaudhry, Y; Hasanaj, L; Selesnick, I; Balcer, L; Galetta, G; Rucker, J. Relation of Quantitative Eye Movements with Cognitive Dysfunction in Patients with Concussion. Poster podium presentation at the Annual Conference for the American Academy of Neurology, Los Angeles, CA, 2018
 22. Cucca, A; Biagioni, M; Rizzo, JR; Hudson, TE; DiRocco, A. Professional Art Therapy and Visuospatial Exploration in Parkinson's Disease: an Experimental Protocol and Preliminary Feasibility Data. Poster presentation at the Annual Conference for the American Academy of Neurology, Los Angeles, CA, 2018
 23. Cobbs, L; Hudson, TE; Rizzo, JR; Weiwei, D; Balcer, L; Galetta, G; Rucker, J. The New MULES: A Sideline-Friendly Test of Rapid Picture Naming for Concussion. Poster presentation at the Annual Conference for the American Academy of Neurology, Los Angeles, CA, 2018
 24. Rizzo, JR; Hudson, TE; Weiwei, D; Balcer, L; Galetta, G; Rucker, J Sandbagging' a Vision Test for Concussion-based Sideline Assessment: An Eye Movement Investigation Objectively Reveals the 'Gamers' Strategies. Poster presentation at the Annual Conference for the American Academy of Neurology, Los Angeles, CA, 2018
 25. Cucco, A; Mania, DF; Acosta, I; Berberian, M; Bertish, HC; Hudson, TE; Lemen, AC; Rizzo, JR; Milton, BC; Di Rocco, A. Professional Art Therapy and Visuospatial Exploration in Parkinson's Disease: An Experimental Protocol and Preliminary Feasibility Data. Poster presentation at the Annual Cognitive Neurology Research Day, New York, NY, 2018
 26. Wertheimer J, Lesser R, Moniz E, Rizzo JR, Roberts P. Vision and Parkinson's Disease: The Patient's Perspective. American Congress of Rehabilitation Medicine (ACRM). Dallas, TX, 2018
 27. Rizzo JR, Venugopal P. Self-neck manipulation-induced spinal cord injury in a pregnant patient: C2 Asia Impairment Scale (AIS) B, Poster presentation at the American Academy of Physiatry Conference. Puerto Rico, 2019
 28. Alberto Cucca, Kush Sharma, Ikuko Acosta, Mahya Beheshti, Marygrace Berberian, Hilary Bertish, Andrew Feigin, Todd Hudson, Daniella Mania, John-Ross Rizzo, and Milton Biagioni. Can Art Therapy improve signs and symptoms of Parkinson's disease? Preliminary Results from the "ExplorArtPD Study". Poster presentation at the American Academy of neurology. Philadelphia, PA, 2019

Patents

- 2012 **Rizzo, JR**, Somatosensory Terminal Feedback Device. U.S. Patent 61654449, filed June 1, 2012, and issued: pending
- 2012 **Rizzo, JR**, Somatosensory Terminal Feedback Device. Int'l Patent 046434, filed June 1, 2013, and issued: pending.
- 2012 **Rizzo, JR**, Somatosensory Feedback Wearable Object. U.S. Patent 14438193, filed October 23, 2012, and issued: notice of allowance granted.
- 2012 **Rizzo, JR**, Somatosensory Feedback Wearable Object. Int'l Patent 066404, filed October 23, 2012, and issued: pending.