

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

1983-1989	Scientific Lycee, B. Croce, Palermo, Italy	B.S.	Science and Math
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Graduate

1989-1995	University of Palermo Medical School, Palermo, Italy	M.D.	Medicine and General Surgery
1991	University of Palermo Medical School, Palermo, Italy	Elective	Molecular Biology
1992-1993	University of Palermo Medical School, Palermo, Italy	Elective	Neurochemistry
1994-1995	University of Palermo Medical School, Palermo, Italy	Elective	Neurology

Post-Graduate

1995	University of Miami School of Medicine, Miami, FL	Foreign Exchange Program	The Miami Project to Cure Paralysis, Lois Pope Foundation; Neuroregenerative potential of white matter
1996	Policlinico, University of Palermo Medical School, Palermo, Italy	Internship	Internal Medicine and Emergency Medicine
2001-2003	Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA	M.P.H.	Anne B. Newman, M.D., M.P.H Epidemiology of Aging

2002	Alzheimer Disease Research Center, University of Pittsburgh Medical Center, Pittsburgh, PA	Mini residency	Steven T. DeKosky, M.D Department of Neurology
2001- 2004	Graduate School of Public Health, University of Pittsburgh, Pittsburgh PA	Trainee for the Aging Training Program	Epidemiology of Aging Design and analysis of structural and functional brain imaging studies in large epidemiologic populations. PI: A B. Newman
2010	Institute for Clinical Research and Education, University of Pittsburgh, Pittsburgh PA	Trainee	Mentor Training Program PI: B. Rollman and W. Kapoor

APPOINTMENTS AND POSITIONS

Academic

1996-1998	Post Doctoral Fellow	The Miami Projects to Cure Paralysis, Lois Pope Foundation;
1998-1999	Visiting Scientist	Department of Biomedical Engineering, Johns Hopkins School of Medicine, Baltimore, MD
1999-2001	Research Specialist	Department of Neurobehavioral Science, University of Pittsburgh, Pittsburgh PA
2001-2004	Post Doctoral Fellow	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2005-2008	Assistant Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2009-2015	Associate Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2015-	Tenured Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2020-	Vice Chair for Research	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA

Non-Academic

2003-04	Consultant	Baobab Organization, Pittsburgh
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2004	Consultant	Liverpool School of Medicine, UK Lilongwe Central Hospital, Malawi University of North Carolina
2017	Consultant	SHAre India, University of Pittsburgh and Hyderabad Medical Center

CERTIFICATION AND LICENSURE

Medical or Other Professional Licensure

1996	Medical Licensure	University of Palermo Medical School, Palermo Italy
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2007-present	Geriatric Society of America
2009-present	American Academy of Neurology
2010-present	Sigma Xi
2012-2016	American Diabetes Association
2016-present	American Society for Clinical Investigation (ASCI)

HONORS AND AWARDS

1992	Student exchange scholarship from SISM, University of Krakow School of Medicine
1994	Travel award from the University of Palermo to London, England
1995	Albanese contest for research excellence-doctoral thesis: "Neurosteroids: a probable role in neurodegeneration"
1995	Predocctoral fellowship from International Federation of Medical Students Association (IFMSA)
1996-98	Postdoctoral research fellowship award from the University of Palermo School of Medicine
2001-2003	NIH T32 award for MPH training in Epidemiology, Neuroepidemiology of aging, Graduate School of Public Health, University of Pittsburgh
2003	Best Scientific Presentation at Dean's Day, Graduate School of Public Health, University of Pittsburgh
2004	New Investigator Award for new and relevant work in geriatrics, Merck/American Geriatric Society
2004	Best Scientific Presentation at Dean's Day, Graduate School of Public Health, University of Pittsburgh

2007	Travel award from National Institute on Aging to participate in <i>Thinking, Moving & Feeling</i> Conference in Bethesda, MD
2007	First prize in the Junior Faculty category at the Celebrating Research on Aging Day, University of Pittsburgh Institute on Aging
2008	Article, “Lower Digit Symbol Substitution Test Score and Slower Gait are Associated with Greater Risk of Mortality and of Developing Incident Disability in Well Functioning Older Adults” selected for a public education resource feature of the American Geriatrics Society Foundation for Health in Aging
2012	Marquis Who’s Who in America, 2012 Edition
2016	Elected Member of the American Society for Clinical Investigation (ASCI)
2019	Delta Omega Inductee

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary /Coordinator
2006 –2011	EPIDEM 2981: Epidemiology of Aging-Methods	32 hrs, 2 credits 5-10 students	Primary
2007 – 2011	EPIDEM 2250: Epidemiology Seminar Series “ <i>The Tipping Point</i> ”	15 hrs, 1 credit 50-60 students	Primary
2014-	EPIDEM 2012: Principles of Neuroepidemiology, fall	32 hrs, 2 credits, 9-16 students	Primary
2018-	EPIDEM 2019: Introduction to multimodal neuroimaging	30 hrs, 2 credits,	Primary
2018	EPIDEM 2920: Grant Writing	30 hrs, 2 credits,	Primary

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
05/18/06	Presentation: Health, Aging and Body Composition (ABC) Study Reception, 1 hr	The Healthy Brain Project
07/10/06	Presentation, Gingko Biloba Evaluation Memory Reception, 1 hr	Brain and movement
10/23/06	Lecture, EPI 2980, 1hr	Aging of the Central Nervous System

Date(s)	Type of Teaching	Title
03/13/07	Lecture, Center for Aging and Population Health (CAPH), 1hr	Association of gait characteristics with subclinical structural brain abnormalities in high functioning older adults
03/14/07	Panel, The Office of Academic Career Development, 2 hrs	Life After Your K Award Workshop
03/19/07	Presentation, Dean Series, 1 hr	Insights into the central control of gait in community-dwelling older adults
05/31/07	Presentation, Health, Aging and Body Composition (ABC) Study Reception, 1 hr	The Healthy Brain Project
10/24/07	Seminar, Pepper Scholars working group, 1 hr	Introduction to Toastmasters
03/06/08	Lecture, EPI 2900, 1 hr	Mobility and the Brain
03/07/08	Presentation, Vestibular Rehabilitation: an advanced course and update, 1 hr	Brain Neuroimaging Correlates of Mobility Control in the Oldest Old
04/03/08	Lecture, Epidemiology Seminar Series, 1hr	Neuroepidemiological approaches to mobility impairment in the oldest old
04/23/09	Seminar, Pepper Junior Scholar Toolbox	Time Management Skills
06/25/09	Lecture, CAPH Participant Advisory Board	Something in the way we move.
05/02/10	Seminar, Pepper Center	GRACE: Geriatric Research in Ambulatory and Cognitive Excellence
06/03/10	SCD Journal Club	Central Vascular Stiffness and Cognitive Function
02/01/11	LIFE Successful Aging Workshop	Recalculating your brain.
03/22/11	Invited Lecture, Advanced Epidemiology of Aging course (EPIDEM 2900)	Mobility and the Brain
10/20/2011	Invited seminar, Radiology Department, Chair: Dr. T. Bae	Etiological research applied to epidemiological studies using neuroimaging
11/28/11	Core Didactic Sessions, Claude Pepper Junior Scholars	Epidemiology of Aging
6/8/12	Lecture, Psychiatry Residents, Research Track	Neuroepidemiology: Opportunities for Translational Research
6/20/12	Lecture, Physical Medicine and Rehabilitation Panther Rehab Rounds	Something About the Way We Move

Date(s)	Type of Teaching	Title
07/02/2012	3 hour symposium for CNBC – Neuroscience MNTTP	“Application of neuroimaging in Epidemiological studies”
07/03/2012	Professional Development (MD/PhD course) Molecular Medicine Course	Neuroepidemiology: Definitions and applications
10/25/2012	Excellence in Neuroscience and Clinical research, (Neurology Residents)	Study Population: generalizability, feasibility
10/25/2012	Excellence in Neuroscience and Clinical research, (Neurology Residents)	Study Population: generalizability, feasibility
4/9/2013	Lecture, EPI2900	Brain and Mobility
7/2013	Lecture: Professional Development III	Grant Writing & Networking Course
10/2013	NEXT-UP Workshop Lecture Series for Neurology and Neurosurgery Residents and Fellows	Study Populations: generalizability, feasibility
3/2014	Lecture: EPIDEM 2213	Independent Study: Laboratory- Brain Imaging
5/2014	3 hour symposium for CNBC – Neuroscience MNTTP	“Neuroepidemiology: Opportunities for Translational Research on Brain Aging”
3/05/2015	Seminar EPI2250 - 1 hour	Neuroepidemiology Specialization and Area of concentration
6/24/2015	Seminar, CMU Mechanobiology 2015 Summer Institute- 1 hour	Neuroimaging at 7Tesla: a potential tool to quantify mechanical insults to brain venules
7/14/2015	Seminar, Neuroscience of Pain Program, Palma, Spain- 1 hour	Application of the principles of neuroepidemiology to understand brain response to aging and disease.
2/2/16	Lecture: Advanced Epidemiology on Aging Course	Mobility and the Brain
3/3/16	Seminar EPI2250 – 1 hour	“Neurocognitive Study of Adult Patients with Sickle Cell Disease”
10/17-21/2016	Research Workshop on Grant Proposal and Manuscript Writing	Muhimbili University of Health and Allied Sciences (MUHAS), Department of Radiology & Haematology, Tanzania
12/7/2017	Central control of mobility	Health Service Research Seminar Series, Center for Research on Health Care (CRHC)
2016-	Journal Club	Epi-BRAIN

6/4-8/2018	Research Workshop in Neuroepidemiology- Grant Proposal and Manuscript Writing	Makerere University, College of health Sciences, School of Medicine Kampala, Uganda
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c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Date(s)	Name of Student	Training Role
2006	JeanClaude Rwigema	Advisor for AFAR sponsored MSTAR program
2006-2010	Vijay Venkatraman	Advisor for PhD Thesis and dissertation
2008	Rebecca Meyer	Advisor for AFAR sponsored MSTAR program
2007-2009	Anderson Tesfazion,	MPH Academic Advisor
2008-2010	Michael Popovich	MPH Academic Advisor
2008	Elliott Dickerson	Advisor for AFAR sponsored MSTAR program
2009	Raúl Poulsen	Advisor for AFAR sponsored MSTAR program
2010-2011	Timothy Hughes	Advisor for PhD Thesis and dissertation
2010-2011	Enrique Velasquez	Advisor for MS Thesis and dissertation
2010-2013	Qu Tian	Advisor for PhD Thesis and dissertation
2010-2014	Karen Nunley	Advisor for PhD Thesis and dissertation
2011-2014	Ge Liu	Advisor for PhD Thesis and dissertation
2012- 2016	Anne Ritter	Dissertation Chair
2013-2018	Beth (Sarles) Shaaban	Advisor for PhD Thesis and dissertation
2014-2018	Dana Jorgensen	Dissertation Chair
2015-2018	Raj Kumar	Dissertation Chair
2015-2018	Jordan A. Brooks	Advisor for MPH Thesis
2016-2018	Ayushi Divechi	Advisor for MPH Thesis
2019-	Sarah Kolibash	Advisor for MPH Thesis
2019-	Shannon Mance	Advisor for MPH Thesis
2019-	Rebecca Ehrenkranz	Advisor for PhD
2018-	Alex Layden	Career Advisor for MDPHD
2019-	Marisa Millenson	Career Advisor for MDPHD
2019-	Kaylin Witonski	Academic Advisor for MDPHD

d. Service on Masters or Doctoral Committees

Date(s)	Name of Student	Degree Awarded, Year	Type of Document and Title
2006-2010	Vijay Venkatraman	Ph.D., 2010 Department of Biomedical Engineering, University of Pittsburgh	“Automated segmentation of white matter hyperintensities on MR images.”
2008-2009	Nora Watson	PhD, 2009 Department of Epidemiology, University of Pittsburgh	“Arterial Stiffness and Functional Decline in Aging.”
2010 – 2011	Timothy Hughes	PhD 2011, Department of Epidemiology, University of Pittsburgh	“Relationships between oxysterols and brain structural and cognitive changes.”
2009-2011	Kira Leishear	PhD 2011, Department of Epidemiology, University of Pittsburgh	“The Relationship of Changes in Vitamin B12 and Homocysteine and Changes in Peripheral Nerve and Neurological Function .”
2010-2011	Enrique Velasquez	MS in Epidemiology 2011, University of Pittsburgh	Thesis: "Association between a Sirtuin 5 SNP (rs SIRT5 SNP, rs9382222) and three functional markers of brain health.”
2010-2013	Andrea Metti	PhD, 2013, Department of Epidemiology, University of Pittsburgh	“Blood Biological Markers of Alzheimer’s Disease”
2011-2013	Qu Tian	PhD, 2013, Department of Epidemiology, University of Pittsburgh	“ Body-Heart-Brain Dynamics – An Observational Epidemiological Perspective”
2011-2013	Karina N. Alvarez	MPH, 2013, Department of Epidemiology, University of Pittsburgh	“Application of advanced statistical methods in an aging dataset”
2010-2014	Karen Nunley	PhD, 2014, Department of Epidemiology, University of Pittsburgh	“Type 1 diabetes, brain structure and function”
2011-2014	Ge Liu	PhD, 2014, Department of Epidemiology, University of Pittsburgh	“Racial Differences in Brain Health”
2012-2016	Anne Ritter	PhD, 2016, Department of Epidemiology, University of Pittsburgh	Epidemiology of Post-Traumatic Seizures Following Moderate to Severe Traumatic Brain Injury
2013-2018	Beth (Sarles) Shaaban	PhD, 2018, Department of Epidemiology, University of Pittsburgh	Promoters of cerebral small vessel integrity for cognitive disorder prevention

2014-2018	Dana Jorgensen	PhD, 2018, Department of Epidemiology, University of Pittsburgh	Racial differences in brain health at midlife and the potential mediating role of cardiorespiratory fitness and cardiometabolic risk
2015-2018	Raj Kumar	PhD, 2018, Department of Epidemiology, University of Pittsburgh	Acute Inflammation and Infection: The effects on recovery following moderate to severe traumatic brain injury

e. Service on Comprehensive or Qualifying Examination Committees

Dates Served	Student Population	Type of Exam
2007- 2010	Ph.D. students in Epidemiology, GSPH	Chronic disease preliminary exams

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Dates Supervised	Name of Student	Position of Student
2006-2008	Robert Tamburo, PhD	Postdoctoral fellow
2008	Christina Vaughan, MD	Postdoctoral fellow
2011-2013	Timothy Hughes, MPH, PhD	Postdoctoral fellow
2012-2014	Andrea Rosso, MPH, PhD	Postdoctoral fellow
2013-2015	Jason Flatt, MPH, PhD	Postdoctoral fellow
2013-2015	Jen Han, MD	Neurology fellow
2014-2015	Karen Nunley, PhD	Postdoctoral Scholar
2016-2018	Robyn Massa, MD	Neurology fellow
2018-2019	Beth Shaaban, MS, PhD	Postdoctoral Scholar or fellow?
2019-	Briana Sprague, PhD	Postdoctoral fellow
2019-2020	Cynthia Felix, MPH, MD	Postdoctoral fellow

g. Mentoring of Graduate Students in Field Placements

Dates	Student	Training Role
5/07-9/07	Amy Dressen	Supervisor, Intern
2008-2010	Yan Du	Supervisor, Graduate student researcher
2009-2012	Nathan Mays	Supervisor, Graduate student researcher
2010-2012	Megan Olson Hunt	Supervisor, Graduate student researcher
2010-2012	Adrian Maries	Supervisor, Graduate student researcher
2010-2013	Qu Tian	Supervisor, Graduate student researcher
2011-2013	Karen Nunley	Supervisor, Graduate student researcher

Dates	Student	Training Role
2011-2013	Ge Liu	Supervisor, Graduate student researcher
2012-2015	C. Elizabeth (Sarles) Shaaban	Supervisor, Graduate student researcher
2013-2016	Anne Ritter	Preceptor, Internship
2013-2015	Misun Hwang	Mentor, Department of Epidemiology
2014-2015	Dana Jorgensen	Supervisor, Graduate student researcher
2020-	Sarah Kolibash	Preceptor, Internship

2. Research and Training

a. Grants and Contracts

ACTIVE

Principal Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	FTE
2018-2023	U01AG061393. Neurobiological drivers of mobility resilience: the dopaminergic system. (MPI with Bohnen)	NIA	\$ 923,581	2.4
2016-2021	T32 AG055381-03 - Population Neuroscience of Aging and Alzheimer's Disease (PNA) (MPI with Ganguli)	NIA	\$302,3245	1.2
2021-2026	P30 AG024827-21 Pittsburgh Older American Independence Center, Leader of Integrated Systems Core. (MPI: Greenspan/Newman)	NIA	\$102,868	1.2
2018-2020	Ultra-high field ante mortem and postmortem methodologies to examine small vessel disease- AD Administrative Supplement to Parent 5R01MH111265-04	NIMH	\$217,694	1.2
2017-2018	Neurobiological drivers of successful rehabilitation- AD Administrative Supplement to P30 AG024827-11	NIA	\$100,000	1.2
2020-2021	SOMMA-BRAIN- AD administrative Supplement to 5R01AG059416-03	NIA	\$309,448	1.2

Co-Investigator

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2017-2021	R01AG057671-01A1- Restoring Central Motor Control to Improve Community Mobility of Older Adults (PI: Rosso)	NIA		1.2
2016-2021	R01HL127107 - Neurovascular Determinants of Cognitive Function in Adults with Sickle Cell Disease (PI: Enrico Novelli)	NHLBI	\$2,494,914	1.2
2016-2021	5R01MH111265-04-High Performance Imaging for Assessment of Small Vessel Disease in Older Adults with Depression (MPI: Ibrahim/Aizenstein)	NIMH	\$109,680	1.2
2015-2020	5R01AG023651-13-Mild Cognitive Impairment: A Prospective Community Study (PI: Mary Ganguli)	NIA	\$24,267	1.2

CLOSED**Principal Investigator**

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
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2015-2020	P30 AG024827-15 Pittsburgh Older American Independence Center, Leader of the Integrated Systems Core. (MPI: Greenspan/Newman)	NIA	\$51,678	1.2
2017-2018	Maladaptive Induction of Thrombospondin-1 Dysregulates Cerebral Blood Flow and Cognition of Aged Individuals	Blum-Tansky funds- ADRC Donation	\$20,000	-
2017-2018	Neurobiological drivers of successful rehabilitation	Aging Institute-SHRS	\$50,000	
2014-2018	1R01AG044474-03- Ultra-high-field neuroimaging in elderly after a two-year exercise intervention	NIA	\$217,694	1.8
2015-2017	R21 DK107926-01, Retinal Imaging Markers of Cognition in Adults with T1D	NIDDK	\$150,000	.96
2015-2016	3R01AG037451-05S1, Resilience to mobility impairment: neural correlates and protective factors	NIA	\$136,202	3.0
2015-2016	P30 AG024827-11 - Physical activity effects on blood biomarkers of neurogenesis, angiogenesis, and inflammation and its impact on mobility (Co-PI)	Claude Pepper	\$25,000	-
2014-2016	Neurovascular Signature of Accelerated Cognitive Impairment in Adult Patients with Sickle Cell Disease	VMI	\$25,000	1.0

2012-2015	1 U13 AG041613-01, Aging, the Central Nervous System, and Mobility in Older Adults, (Co-PI w/ Stephanie Studenski)	NIA	\$50,095	-
2011-2016	1R01AG037451-05, Resilience to mobility impairment: neural correlates and protective factors	NIA	\$454,100	3.0
2010-2014	P30 AG024827-06 Pittsburgh Older American Independence Center, (PI of Clinical Core)	NIA	\$75,587.00	1.2
2012-2013	1 R01 AG029232-01, Brain anatomical correlates of mobility control in the oldest old (no cost-extension of a 5 yr RO1, 2007-2012)	NIA	\$343,657	6.0
2010-2014	R01 DK089028-01, Imaging biomarkers of accelerated brain aging in Type-1 Diabetes	NIDDK	\$463,148.00	3.0
2007-2012	1 R01 AG029232-01, Brain anatomical correlates of mobility control in the oldest old	NIA	\$499,657	3.0
2006-2009	1 K23 AG028966-01 (Beeson career award), Novel brain neuroimaging markers of age-related mobility impairment, PI	NIH/NIA	\$198,686	12.0
2006-2008	1 R03 AG025076-01, Global vs. focal neuroimaging markers of Dementia risk, PI	NIH/NIA	\$42,724	6.0
2005-2007	1 P30 AG024827-01, Pittsburgh Claude D. Pepper Older Americans Independence Center - Scholar Awardee	NIH/NIA	\$63,750	10.2

Foundations/Institutional funding

2014-2015	PET Neuroimaging Study of Patients with Type 1 Diabetes	MRRC		4 PET scans-	-
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2010-2013	Pepper Pilot (P30 AG024827-06), The influence of a dancing intervention on neurocognitive function in postmenopausal healthy women, (Dual-PI with Dr. K.Erickson)	Claude D. Pepper	\$35,000	-
2012-2013	PSC - A neuroimaging study to measure the association of baseline cerebral blood flow, structural brain characteristics and neuronal activation with the 2-year response to physical activity intervention in the LIFE –main participants	University of Florida	\$10,000	-
2012-2013	NIA contract (HHSN311201000281P) and Pepper Pilot (P30 AG024827-06), A neuroimaging study to measure the association of baseline cerebral blood flow, structural brain characteristics and neuronal activation with the 2-year response to physical activity intervention in the LIFE – main participants	NIA	\$20,000	-
2012-2013	Association between resting state and structural brain characteristics with 2-year response to physical activity intervention in the LIFE –main participants” (co-PI w/ Howard Aizenstein)	UPMC Aging Institute	\$20,000	2.5
2009-2012	University of Pittsburgh Research Council Multidisciplinary Small Grants Program. GRACE: Geriatric Research in Ambulatory and Cognitive Excellence	URC	\$50,000	-
2008	MRRC01: “Neuroimaging correlates of psychomotor slowing in patients with diabetes.”, PI	MRRC	\$8,920	-
2007	263-MA-706016-2 Renewal, “Pilot funding to advance progress toward functional MRI study of brain changes after physical activity intervention” , PI	NIA	\$21,020	-
2007	“A new functional MRI study of brain changes after intervention with a dance-dance repetition device”, PI	Claude Pepper	\$7,018	
2007	263-MA-706016, “A pilot study to measure the association between functional brain MRI activation and motor performance in the LIFE participants 1 year after the end of the intervention”, PI	NIA	\$12,152	-
2006-2007	Pilot Pepper grant, “Diffusion tensor imaging in Motor Re-learning in Older Adults with Mobility Disability”, PI	Pepper center	\$8,500	-
2001-2004	T32 AG000181-16, trainee	NIA		

Co-investigator

2016-2018	R21 AG054666-01 - Cognitive Decline, Brain Aging, Physical Environment, and Mobility (PI: Andrea Rosso)	NIA	\$150,000.00	1.2
2014-2019	R37 DK034818-31 – Epidemiology of Diabetes Complications (EDC) Phase II (PI: Trevor J. Orchard, Epidemiology)	NIDDK	\$405,275	.12
2016-2017	Retinal imaging biomarkers of worsening microvascular complications in type 1 diabetes (PI: Karen Nunley)	DiaComp	\$99,995	-
2008- 2012	R01- “Influence of White Matter Damage on Step Initiation” (PI: P.Sparto, School of Engineering)	NIA	\$4,838.00	0.6
2012-2013	The LIFE-COMBINE Study: Lifestyle Interventions and Independence for Elders - Cognition and Mobility Interface Study (AS12-04) (PI: N. Nadkarni, Submitted to the LIFE Main Emerging Science Committee)			
2006-2007	Developmental Project. “Development of an automated and reliable method to quantify cerebrovascular disease burden based on brain MRIs.”(PI: H. Aizenstein, Psychiatry, Pittsburgh School of Medicine)	Pepper center	\$30,000	-
2005-2007	1 P30 AG024827-01 Pittsburgh Claude D. Pepper Older Americans Independence Center P/E-C:PP5 “Restoring Skill in Walking: A Motor Re-Learning Approach to Intervention for Older Adults with Mobility Disability” (PI: J. Van Swearingen)	NIA	\$126,810	-

b. Invited Lectures

Date	Title of Presentation	Venue
07/27/06	Advanced brain MRI methods to examine the mechanisms underlying age-related physical functional impairment	National Institute on Aging, Bethesda, MD

Date	Title of Presentation	Venue
01/08/07	Methods and applications of neuroimaging techniques in epidemiological studies	Brain Tumor Center, Pittsburgh, PA
06/20/07	Brain anatomical and functional correlates of poorer gait speed in community-dwelling older adults	Baltimore Longitudinal Study on Aging, Bethesda, MD
02/2008	See Gait, Think Brain	2 nd International Congress on Gait & Mental Function, Amsterdam, The Netherlands
03/2008	Relationships between Gait and Central Nervous System	J. Paul Sticht Center, Wake Forest University, Winston-Salem, NC
06/2008	Functional decline and motor system: balance, gait and falling	The Role of the Vascular System in Neurological Disease of the Aging Brain Washington, DC
1/2010	GRACE: Geriatric Research in Ambulatory and Cognitive Excellence	University of Pittsburgh Research Council
2/2010	Workshop: Using Imaging to Assess Gait and Dual Task Performance	3 rd International Congress on Gait and Mental Function, Washington, DC
2/2010	Resilience to Aging: A Neuroepidemiological Perspective	University of Florida at Gainesville
2/2011	Methods to study resilience to aging.	UPMC - Palermo, Italy
4/2012	Subclinical Indicators of Functional Decline: Early Detection	Canadian Longitudinal Study on Aging, Vancouver, BC
6/2012	Update on neuroimaging of gait in aging: from observations to mechanisms	International Society for Posture and Gait Research, Trondheim, Sweden
6/11/2012	“Something About the Way We Move”	Lecture, Physical Medicine and Rehabilitation Panther Rehab Rounds, Pittsburgh, PA
07/02/2012	“Application of Neuroimaging in Epidemiological Studies”	Center for the Neural Basis of Cognition – Carnegie Mellon University Neuroscience MNTP, Pittsburgh, PA
11/15/2012	“Brain resilience and risk of negative health outcomes”	Gerontological Society of America, San Diego, CA
11/16/2012	“Aging, the Central Nervous System, and Mobility in Older Adults: Application of Neuroimaging”	Aging, CNS, and Mobility Workshop, San Diego, CA

Date	Title of Presentation	Venue
9/6/2013	“Sickle Cell Disease as a model to study accelerated brain aging”	Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA
11/2/2013	“Biological aging of the brain in health and psychiatric disorders”	XIII Annual Meeting of the International College of Geriatric Psycho-neuropharmacology, Pittsburgh, PA
11/19-20/2013	Aging, the Central Nervous System and Mobility in Older Adults – Neural Mechanisms of Mobility Impairments	Aging, CNS and Mobility Workshop, New Orleans, LA
4/17/2014	“Resilience to Brain Aging”	Alzheimer Disease Research Center, University of Pittsburgh
5/22/2014	“Neuroepidemiology: Opportunities for Translational Research on Brain Aging”	Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, PA
1/21/2015	Aging, the Central Nervous System, and Mobility in Older Adults	Barshop Institute for Longevity and Aging Studies Seminar, University of Texas Health Science Center at S.A., San Antonio, TX
6/24/2015	“Neuroimaging at 7Tesla: a potential tool to quantify mechanical insults to brain venules”	Mechanobiology 2015 Summer Institute, Carnegie Mellon University, Pittsburgh, PA
6/28/2015	Aging, the Central Nervous System and Mobility in Older Adults – Neural Mechanisms of Mobility Impairments	International Society for Posture and Gait Research Seville, Spain
7/14/2015	“Application of the principles of neuroepidemiology to understand brain response to aging and disease”	Neuroscience of Pain Program, Palma, Spain
9/9/2015	“Imaging Brain Small Vessel Disease to Understand Normal and Accelerated Aging”	Department of Neurology, University of Pittsburgh School of Medicine, Pittsburgh, PA
10/27/2015	“Healthy Brain Aging and Cognitive Fitness in Later Life”	PA Geriatrics Society Fall Program, Pittsburgh, PA
10/8/2015	BRAIN DAY – Science 2015!	University of Pittsburgh Brain Institute, Pittsburgh, PA
10/27/2015	“Health Brain Aging and Cognitive Fitness in Later Life”	Pennsylvania Geriatric Society Western Division, Pittsburgh, PA
11/6/2015	“MRI Abnormalities in T1D”	University of Pittsburgh – University-Wide Adult/Pediatric Endocrine Conference

Date	Title of Presentation	Venue
12/7-/2015	“Clinical neuroscience and cognitive aging”	Wisdom and Aging Symposium at Pitt Public Health, University of Pittsburgh, Pittsburgh, PA
10/13/2016	“Midlife Type 1 Diabetes and Neuroimaging Biomarkers of Brain Aging”	VAS-COG, 2016 Amsterdam, The Netherlands
8/25-26/ 2016	“Brain Aging”	NIA/AGS U13, Workshop on Pathways, Contributors and Correlates of Functional Impairment Across Specialties, Washington, DC
10/3-4/ 2017	“Plasticity of the Central Nervous System in Aging”	NIA/AGS U13 Bench to Bedside Conference series, Sensorimotor Integration in older age. Washington DC
2017-current: in the process of updating		

c. Other Research and Training Activities

Date	Position	Description of Activity
2005	Grants 101: Professional Grant Proposal writing - trainee	Program Development and evaluation, Professional grant writing and grant research
2005-10	Pittsburgh Pepper Junior Faculty Research group - Attendant	Present updates on ongoing work
2005-2009	Pittsburgh Pepper Research Seminar Series- Attendant	Present updates on ongoing work
2006-present	Cardiovascular Health Study (CHS) working group	Training junior investigators in the area of cardiovascular health
2006-present	Center for Aging and Population Health (CAPH) working group - Attendant	Present updates on ongoing work
2006-present	Mobility & Brain Imaging in Older adults working group	Monthly meeting of investigators to discuss ongoing challenges associated with collecting brain measures
2007-2011	Yearly Steering Committee meetings for Health, Aging, and Body Composition (ABC) -attendant	Present updates on ongoing ancillary
2010	Massimo Cenciarini, PhD student, Bioengineering	Consultant mentor for career development
2010-present	Neelesh Nadkarni, MD, PhD, Junior faculty, Medicine	Mentor for Neuroepidemiology
2011-2012	John Ryan, PhD, postdoctoral scholar, WPIC	K01 application WPIC Review Board

Date	Position	Description of Activity
2011-13	Hyogin Park, External Lab/Cosponsor	BIOSC1903 – Undergraduate research rotation
2011-16	Journal Club Coordinator	“EPI-BRAIN NeuroImaging in Epidemiology Studies of Brain Aging and Diseases”
2011-present	Contact Faculty for Neuroepidemiology –Area of Concentration in the Department of Epidemiology	Developed curriculum for “Scholar Award in Neuroepidemiology”, facilitated networking of collaborators with shared research and mentoring interests in the field of Neuroepidemiology
2013 – 2014	Co-Chair Working Group on Healthy Brain Aging- Aging Institute	Identify key contributors to the field of healthy brain aging, organize regular meetings, identifying main agenda items and action items
2014-current: in the process of updating		

PUBLICATIONS

Link to full publication list:

<https://scholar.google.com/citations?user=I39JNiwAAAAJ&hl=en&authuser=1>
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90. **ROSANO C**, Aizenstein HJ, Orchard TJ, Saxton J, Ryan C. Psychomotor slowing in Middle-Age Adults with Type 1 Diabetes is associated with focal gray matter atrophy and poorer metabolic control. American Diabetes Association 74th Scientific Sessions. June 2014.
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96. **ROSANO C**. Yale Workshop, “Aging, Central Nervous System and Mobility: Intervention Strategies to Prevent and Improve Late Life Gait Decline”, International Society for Posture & Gait Research Conference, Seville, Spain, June 28 – July 2, 2015
97. Best JR, **ROSANO C**, Boudreau RM, Ayonayon HN, Satterfield S, Simonsick EM, Studenski S, Yaffe K, Newman AB, Liu-Ambrose T. The impact of maintaining walking in late life I nsubsequent change in brain micro- and macro-structure. 2015 Alzheimer’s Association International Conference, July 18-23, 2015, Washington, DC
98. Best JR, Liu-Ambrose T, Boudreau RM, Ayonayon HN, Satterfield S, Simonsick EM, Studenski S, Yaffe K, Newman AB, **ROSANO C**. Longitudinal relations among walking activity, gait speed, and cognitive functioning over a 10-year period. 2015 Alzheimer’s Association International Conference, July 18-23, 2015, Washington, DC.
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101. O’Hare CJ, Kenny R, **ROSANO C**, Boudreau R, Newman AB, Launer LJ, Yaffe K, Aizenstein HJ. Selected vascular risk factors and future cerebral blood flow in older adults. Gerontological Society of America Conference, November 15-18, 2015, Orlando, FL
102. Rosso A, Huppert T, **ROSANO C**. Neural contributors to complex walking tasks: Novel approaches to community mobility interventions. Gerontological Society of America Conference, November 15-18, 2015, Orlando, FL
103. Shaaban CE, Aizenstein JH, Rosso AL, Launer LJ, Kritchevsky SB., Yaffe K, Newman AB, **ROSANO C**. Long-term relationship of BDNF with brain microstructural integrity of community-dwelling older adults. 2015 Gerontological Society of America Conference, November 18-22, 2015, Orlando, FL.
104. Nunley KA, Orchard TJ, Ryan CM, Miller R, Costacou T, **ROSANO C**. Statin Use and Cognitive Impairment in Middle-Aged Adults with Type-1 Diabetes. Disease Drivers of Aging: 2016 Advances in Geroscience Summit, The New York Academy of Sciences, New York, NY, April 13-14, 2016.
105. Shaaban CE, Aizenstein HJ, Jorgensen DR, MacCloud RL, Meckes NA, Erickson KI, Glynn NW, Mettenburg J, Cohen R, Guralnik J, Newman AB, Ibrahim TS, Laurienti J, Vallejo AN, **ROSANO C**. In vivo imaging of venous side microcirculation in older adults at 7T. New York Academy of Sciences 2016 conference, New York, NY
106. Rosso AL, Studenski SA, Longstreth Jr, WT, Brach JS, Boudreau RM, **ROSANO C**. Contributors to poor mobility in older adults: Integrating white matter hyperintensities and conditions affecting other systems. J Gerontol A Biol Sci Med Sci glw224, 2016 GSA Annual Meeting, New Orleans, LA, November 2017

107. Rosso AL, Metti AL, Boudreau RM, Glynn NW, Rejeski WJ, **ROSANO C**. Dopamine-related genes and sustained physical activity adherence in adults at risk for dementia. Alzheimer's Association International Conference, 2017.
108. Shaaban CE, Rosso AL, Aizenstein HJ, Newman AB, **ROSANO C**. Neuroimaging Signature of Dopamine System COMT Genotype in Older Adults. Alzheimer's Association International Conference, 2017.
109. Rosso AL, Metti AL, Nadkarni NK, Yaffe K, Launer L, **ROSANO C**. Dual-task walking as a predictor for later cognitive impairment. Alzheimer's Association International Conference, 2017
110. **ROSANO C**, Metti A, Klein R, Klein B, Orchard TJ, Miller R, Costacou T, Saxton J, Nunley KA. Long-term changes in retinal vascular measures and cognitive impairment in type 1 diabetes. 2017 ADA 77th Scientific Sessions, San Diego CA, 226-LB.
111. Nunley KA, Karp JF, Costacou T, Aizenstein HJ, Orchard TJ, **ROSANO C**. Depression in adults with type 1 diabetes: The role of cerebral small vessel disease. 2017 ADA 77th Scientific Sessions, San Deigo CA, 227-LB.
112. **ROSANO C**. Gait & Cognitive Impairment Share Common Mechanisms. Brain Structural & Metabolism Imaging Studies. International Association of Gerontology and Geriatrics (IAGG) Annual Congress 2017, San Francisco, CA, July 23-27, 2017
113. **ROSANO C**. Accelerated Cognitive and Physical Function Aging in Middle Aged Patients with Type 1 Diabetes. International Association of Gerontology and Geriatrics (IAGG) Annual Congress 2017, San Francisco, CA, July 23-27, 2017

1. Presentations: Non-Print Media

1. http://www.movementdisorders.org/monthly_edition/2012/04/understanding_gait_in_aging-pt2.php
2. http://www.cnn.com/2011/11/09/health/keeping-brain-young-memory/index.html?hpt=he_c1
3. http://www.epidemiology.pitt.edu/News/News_Display.asp?link=458
4. <http://www.aarp.org/health/fitness/info-04-2011/high-blood-pressure-and-slower-walking-speed.html>
5. <http://public.nhlbi.nih.gov/newsroom/home/GetPressRelease.aspx?id=2766>
6. <http://newoldage.blogs.nytimes.com/2010/05/25/another-reason-to-keep-moving/>
7. <http://www.aging.pitt.edu/newsletter.htm> - Winter 2007
8. <http://seniorjournal.com/NEWS/Alzheimers/2007/7-07-06-AlzheimersRisk.htm>
9. <http://www.pepper.pitt.edu/content.asp?id=587>
10. http://cathedralofhope.org/news/elpc-in-the-media/2011/110730_pitt-magazine_CatarinaRosanoBrainResearch.pdf
11. www.physweekly.com. - Volume 22, Issue 26
12. <https://www.youtube.com/watch?v=geFZmEgHVek>
13. [http://www.barshop.uthscsa.edu/files/user/Spring-2015BarshopSeminarSeries%20\(3\).pdf](http://www.barshop.uthscsa.edu/files/user/Spring-2015BarshopSeminarSeries%20(3).pdf)

14. <http://health.economictimes.indiatimes.com/news/industry/brain-ages-faster-in-people-with-type-1-diabetes/47181425> - May 7, 2015
15. <http://www.healio.com/endocrinology/diabetes/news/online/%7Be3a43ef6-45af-4dde-9b3e-fbb272abf597%7D/brain-aging-in-type-1-diabetes-may-lead-to-cognitive-complications> - May 7, 2015
16. <http://www.wsj.com/articles/diabetes-may-be-a-risk-factor-for-developing-alzheimers-studies-find-1432583222>
17. <http://www.hngn.com/articles/95190/20150526/diabetes-speeds-up-progression-of-alzheimer-s-disease-by-up-to-40-percent.html> - May 26, 2015
18. <http://www.pagswd.org/wordpress/archives/308>
19. <https://pitt.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=84750da7-da25-41a1-8b9b-5a6545977a3f>
20. <http://triblive.com/mobile/9845564-96/aging-brain-health>, February 4, 2016
21. <http://www.post-gazette.com/news/health/2017/06/28/Right-hippocampus-explains-link-between-slowed-walking-cognitive-decline-Pitt-Study/stories/201706280037>
22. <http://triblive.com/news/healthnow/12455223-74/pitt-scientists-pinpoint-source-of-link-between-slower-walking-mental-decline>

SERVICE

1. Service to School and University

Years	Committee
2007-2010	Gender Equity Committee, senate committee
2008	Accepted Students Day, GSPH
2011- present	MD/PhD Admission Program Committee
2011- 2013	Marketing Committee
2012-2014	Strategic Planning Committee
2011-2013	Epidemiology Faculty Search Committee
2011- 2012	Behavioral and Community Health Faculty Science Search Committee
2014 – 2015	Geriatric Psychiatry Faculty Search Committee
2014- present	Canadian Consensus in Mobility and Cognition, Canadian Consortium of Neurodegeneration and Aging, Advisory Board Member
2014	Reviewer, Promotion Dossier for Yale University School of Medicine
2014	Reviewer, Promotion Dossier for Harvard Medical School
2014	Reviewer, Promotion Dossier for Emory University School of Medicine
2015	Reviewer, Promotion Dossier for Galveston University School of Medicine
2017	Reviewer, Promotion Dossiers for Kaiser Permanente, LA, CA; U. Michigan, Anne Arbor

- 2014-current MSTP Epidemiology Program Director. Duties: point of contact for potential MDPHD applicants in epidemiology; screen and provide written evaluation of applications (~12-14/year); schedule interviews with faculty members as appropriate (~20/year); write reports of interviews (~4/year); serve as career advisor for MDPHD students in Epidemiology (currently 3), prepare/update annual IDP; participate to committee meetings and annual retreat.
- 2017-current. MSTP Screening and selection committee member. Duties: screen and provide written evaluation of incoming applications in areas related to neuroscience as well as provide 3rd tier feedback (~40/year); Interview candidates (~15-20/year).

2. Service to Field of Scholarship

a. Editorial Boards, Editorships

Date	Position	Organization
2005-present	Editorial board member	Journal of Gerontology: Medical Sciences
2013–2014	Guest co-Editor of Special issue “Aging, CNS and mobility”	Journal of Gerontology: Medical Sciences
2014-present	Editor of Special issue on “Impact of racial differences on brain health among the oldest old” (O. Lopez, co-editor)	Journal, Current Alzheimer Research
2014-2016	Chief Editor (M. Ganguli and MK Ikram, co-editors)	Neuroepidemiology Volume in Handbook of Clinical Neurology,
2017-	Associate Editor	Journal of Gerontology: Medical Sciences

b. Manuscript and Other Document/Publication Review

Dates	Journal Title
2005- present	Archives of Physical Medicine and Rehabilitation
2005- present	Neuropsychology
2005- present	Journal of Gerontology: Medical Sciences
2007- present	Journal of the American Geriatric Society
2007- present	Neuroimaging
2007- present	Muscle and Nerves
2008- present	Alzheimer’s Disease and Associated Disorders
2009- present	American Journal of Geriatric Psychiatry
2009- present	Neuroscience and Behavioral Reviews
2009- present	Hypertension
2009- present	American Journal of Geriatric Psychiatry

Dates	Journal Title
2010- present	Brain
2010- present	American Geriatric Society
2010- present	Advances in Therapy
2010- present	Annals of Neurology
2010- present	Gait and Posture
2010	American Academy of Neurology
2011	Neurobiology Review
2011- present	Neurology
2011- present	NeuroImage
2012- present	American Journal of Alzheimer's Disease

c. Study Sections, Review Panels, and Related Advisory Boards

Date	Position	Organization and Nature of Activity
2005- 2010	Reviewer	Cardiovascular Health Study Publication and Paper Committee
2005-2011	Reviewer	Health ABC Publications and Papers Committee
2007	Reviewer	Pittsburgh Institute of Neurodegenerative Disease seed money proposal
2008- 2016	Reviewer	Pepper Junior Scholar's working group
2008	Reviewer	Pilot/Feasibility Grant, University of Michigan Geriatrics Center
2008-2010	Ad- hoc Reviewer	National Institute of Health
2008- present	Invited member	MRI Research Center –User Advisory Board
2009- present	Reviewer	American Geriatrics Society, Annual Scientific Meeting; Abstracts
2009	Reviewer	American Academy of Neurology Annual Meeting, 2010; Aging and Dementia Abstracts

2011- present	Reviewer and Member	AFAR National Scientific Advisory Council (NSAC)
2013- present	Reviewer and Member	ASG- NIA study section
2015	Reviewer	Applications to the NIDDK Diabetes Complications Consortium
2/29-3/1/2016	Reviewer	NIH Aging Systems and Geriatrics Study Section (ASG), San Diego, CA
2/12-14/2017	Reviewer	NIH Aging Systems and Geriatrics Study Section (ASG), San Diego, CA
9/2017 – 8/2019	External Advisory Board Member	Institute for Aging Research (IFAR) External Advisory Committee
9/2017 – 8/2020	Scientific Advisory panel	UH2/UH3 Resiliences (PIs:Whitson, Colon-Emeric)

d. Consultantships

Date	Name of Consultantship
2004	Liverpool Tropical School of Medicine, Britain and the University of North Carolina, USA

3. Non-Professional Service

a. Service to Community-Based Organizations

Year(s)	Position and Organization	Type of Service
2006 - 2013	Board of the Poverty Task Force Group, East End Cooperative Ministry and East Liberty Presbyterian Church, Elder	Consultant, training Volunteer

Revised: 6/8/2020