

Curriculum Vitae
Pietro Mazzoni, MD, PhD

Date: 11-Jan-2022

Professional Website: <https://pietromazzoni.com>

Faculty Website: https://neuro.wustl.edu/Faculty/Mazzoni_P

PERSONAL INFORMATION

Year of Birth: 1966. Citizenship: USA, Italy

Address and Telephone Numbers

Office: Washington University in St. Louis, Department of Neurology, 660 S. Euclid Ave., Box 8111, St. Louis, MO 63110. Email: mazzonip@wustl.edu

PRESENT POSITION

Associate Professor of Neurology, Washington University School of Medicine, St. Louis, MO
(Start date: 1-July-2016)

EDUCATION

Undergraduate

1984 (No degree) Major: Music Performance (Piano). University of California, Los Angeles (UCLA). Attended: September 1983 - June 1984

1988 BS. Major: Physics. University of California, San Diego (UCSD). Attended: September 1984 - June 1988

Graduate

1994 PhD, Neuroscience. MIT. 1994. Attended: September 1988 - February 1994. Advisor: Richard A. Andersen, PhD.

1995 MD. Harvard Medical School. 1995. Attended: September 1988 - June 1995

Postgraduate

1995-1996 Internship, Internal Medicine, Columbia University Medical Center, New York, NY. Dates: 07/01/1995 - 06/30/1996

1996-1999 Residency, Neurology, Columbia University Medical Center, New York, NY. Dates: 07/01/1996 - 06/30/1999 (Chief Resident, 1998-1999)

1999-2001 Fellowship in Movement Disorders - Columbia University Medical Center, New York, NY. Dates: 07/01/1999 - 06/30/2001. Clinical mentor: Stanley Fahn, MD. Research mentor (human motor control): Claude Ghez, MD

ACADEMIC POSITIONS / EMPLOYMENT

Academic Appointments

2001-2010 Assistant Professor of Neurology, Dept. of Neurology, Columbia University College of Physicians and Surgeons, New York, NY. July 2001 - June 2010 (Hire date 7/1/2001)

2010-2016 Associate Professor of Neurology at CUMC, Dept. of Neurology, Columbia University College of Physicians and Surgeons, New York, NY - July 2010 - June 2016

2016-pres. Associate Professor of Neurology, Dept. of Neurology, Washington University School of Medicine, St. Louis, MO - July 2016 - present (Hire date 7/1/2016)

HOSPITAL APPOINTMENTS

2001-2016 Assistant Attending, Dept. of Neurology, New York Presbyterian Hospital at Columbia University Medical Center, New York, NY. July 2001 - June 2016

2002-2010 Assistant Attending, Dept. of Neurology, Harlem Hospital (Columbia University Affiliation), New York, NY. Initial appointment date: 05/01/2002. May 2002 - December 2010

2009-2016 Consultant Neurologist, New York State Psychiatric Institute, New York, NY. July 2009 - May 2016

2016-pres. Staff Attending, Barnes-Jewish Hospital, St. Louis, MO. Initial appointment date 7/11/16. July 2016-present

OTHER APPOINTMENTS

2001-2016 Research Neurologist, Huntington's Disease Center of Excellence, Columbia University Medical Center. June 2001; January 2015 - Present

2002 Research Neurologist, U.S.-Venezuela Cooperative Huntington's Disease Project, Maracaibo, Venezuela. March 2002 - April 2002

2003-2010 Co-Director, Motor Performance Laboratory, Dept. of Neurology, Columbia University Medical Center. March 2003 - October 2010

2005-2016 Director, Movement Disorders Medicaid Clinic, Columbia University Medical Center. July 2005 - September 2011; July 2013 - June 2016

2010-2016 Director, Motor Performance Laboratory, Dept. of Neurology, Columbia University Medical Center. October 2010 - June 2016

2015-2016 Staff Neurologist, Huntington's Disease Center of Excellence, Columbia University Medical Center. January 2015 - May 2016

UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES:

2000-2001 Residency Admission Committee, Dept. of Neurology, Columbia University Medical Center. November 2000 - February 2001

2014-2015 Clinical Practice Working Group, Dept. of Neurology, Columbia University Medical Center. July 2014 - September 2015

MEDICAL LICENSURE AND BOARD CERTIFICATION:

1999 New York State Medical License (No. 213959) - May 1999 - June 2016

2000 American Board of Psychiatry and Neurology, Certificate in Neurology (No. 048320) - April 2000

2011 Maintenance of Certification Exam for Certificate in Neurology: 28-Feb-2011

2016 Missouri State Medical License (No. 2016013218) - June 2016 - Present

HONORS AND AWARDS:

1984-1988 Provost's Honor List, University of California, San Diego. January 1984 - June 1988

1985-1988 Caledonian Honors Society, University of California, San Diego. 1985 - 1988

- 1998 Honorable Mention, Medical Student Teaching Awards, Columbia College of Physicians and Surgeons. May 1998
- 2007 One publication selected to the "Faculty of 1000 - Biology" (Mazzoni et al., J Neurosci, 2007): <http://www.f1000biology.com/article/id/1088754>. 2007
- 2007 Acknowledged as frequent reviewer by the Journal of Neuroscience. 2007

EDITORIAL RESPONSIBILITIES

Ad hoc reviewer for peer-reviewed journals

Brain, British Medical Journal, Current Biology, Experimental Brain Research, Journal of Cognitive Neuroscience, Journal of Motor Behavior, Journal of Neurophysiology, Journal of Neuroscience, Journal of Neurology, Journal of Neuroengineering and Rehabilitation, Journal of Physiology, Movement Disorders, Neuroimage, Neurology, Neuropsychologia, Neurorehabilitation & Neural Repair, Neuroscience Letters, PLoS Computational Biology, PLoS One

Reviewer for Grant Applications

Parkinson's Disease Foundation (2000-2015), U.S.-Israel Bi-national Foundation (2008)

Consultative

2000-2010 Medical Consultant for website-submitted questions, Parkinson's Disease Foundation (2000-2010)

PROFESSIONAL SOCIETIES AND ORGANIZATIONS

- 1999 American Academy of Neurology
- 2009 American Neurological Association
- 2001 Movement Disorders Society
- 1992 Sigma Xi Scientific Research Society
- 1989 Society for Neuroscience

SELECTED INVITED LECTURES

- 2006 Action Club Lecture, Kinesiology Dept, Pennsylvania State University, State College, PA. "Probabilistic bradykinesia in Parkinson's disease", September 15, 2006
- 2007 Neurorehabilitation Symposium, Metropolitan Hospital, New York, NY. "Neuroplasticity", June 6, 2007
- 2007 Seminar series, Sobell Department of Motor Neuroscience and Movement Disorders, Institute of Neurology, Queen Square, London, UK (Prof. John Rothwell, host). "What Movement Disorders Tell Us About normal Motor Control: Motor Motivation and Implicit Motor Control", 5 December 2007
- 2008 Seminar Series, Prince of Wales Medical Research Institute, University of New South Wales, Sydney, Australia (Prof. Simon Gandevia, host). "What Movement Disorders Tell Us About normal Motor Control: Motor Motivation and Implicit Motor Control", March 6, 2008
- 2008 Cairns Society Lecture, Adelaide, Australia. "What Movement Disorders Tell Us About Normal Motor Control: Motor Motivation and Implicit Motor Control". (Prof. Philip Thompson, host) March 12, 2008

- 2008 Grand Rounds, Dept. of Neurology, Columbia University. December 2008.
- 2009 International Neuropsychological Symposium, Dubrovnik, Croatia. "Moving comfortably: motivation as a determinant of movement speed in Parkinson's disease." (Prof. Michael Goldberg, host). June 27, 2009.
- 2010 Grand Rounds, Dept. of Neurology, Columbia University. "How The Brain Selects Movement Speed: Why Don't We Move More Slowly?". January 2010.
- 2014 Grand Rounds, Dept. of Neurology, University of Pennsylvania. "What Does Parkinson's Disease Tell Us About Motor Control?" 03/14/2014
- 2014 Grand Rounds, Dept. of Neurology, Johns Hopkins University. "What Do Basal Ganglia Disorders Tell Us About Motor Control?" 01/03/2014
- 2016 Grand Rounds, Dept. of Neurology, Washington University in St. Louis. "Motor Control Abnormalities in Movement Disorders." 11/11/2016.
- 2017 Biomedical Engineering Seminar Series, Arizona State University at Tempe. "Motor Control Abnormalities in Movement Disorders." 4/14/2017.
- 2018 Progress in Clinical Motor Control, Penn State University. "Selection of Movement Parameters: Motor Decision Making." 7/23/2018

CONSULTING RELATIONSHIPS AND BOARD MEMBERSHIPS

2000-2010 Medical Consultant, Parkinson's Disease Foundation. Sept. 2000 - June 2010

RESEARCH SUPPORT

Active Grants

Governmental

1R01HD092444 (Co-PIs: Ellis, Earhart)	4/01/18-3/31/23	0.48 calendar
NIH/NCMRR		\$426,851
Effects of Walking and mHealth Activities for People with Parkinson Disease		
The goal of this work is to determine the benefits of a walking program and cognitive-behavioral strategies delivered using mobile health technology for people with Parkinson disease over a sustained period of time.		
Role: Co-I		

1R01NS110696-01 (PI: Heidi Schambra, NYU)	4/1/20-3/31/24	0.36 calendar
NIH/NINDS		\$378,960
Corticoreticulospinal tract reorganization after stroke		
This project examines the neural substrate of motor recovery after stroke using kinematic analysis, transcranial magnetic stimulation, and structural MRI		
Role: Co-I		

Non-governmental

CNSRR Grant Program	0.84 calendar
Washington University/Encompass Health	
\$50,000	
Freezing Incidence and Duration in the Office and at Home (FIDOH)	
This project's goal is to study freezing of gait in patients with Parkinson's disease using wearable sensors in the clinic and at home.	

Role: PI

Pending Grants

None.

Previous Grants

Governmental

Neurorestorative Rehabilitation Award (PI: Earhart) 11/1/16-10/31/18 0.12 calendar
HealthSouth Corporation \$80,000

Self-Management of Gait, Speech, and Dexterity in Parkinson Disease: Is There an App for That?

The goal of this work is to determine the feasibility and preliminary efficacy of a program, delivered via a smartphone application, which encompasses treatments for gait, speech, and dexterity, all tailored to the ability and needs of each person on a daily basis.

Role: Co-I

Role: Site investigator. PI: Paulsen J. Title: "Neurobiological predictors of Huntington's disease (PREDICT-HD)". Grant type: NIH RO1. Grant ID: NS640068-04-NINDS. 09/01/2007 - 08/31/2014

Role: Site investigator. PI: Cudkowicz M. Title: "A Multi-Center, Double Blind, Pilot Study of Minocycline in Huntington's Disease." Grant type: non-NIH. FDA Orphan Drug Program: Protocol MINO2-2004 #60493-01. 02/01/2007 - 07/31/2008

Role: Co-investigator. PI: Krakauer JW. Investigators: Krakauer JW, Mazzoni P. Title: "The functional anatomy of motor learning and motor memory." Grant type: NIH RO1. Grant ID: R01 NS052804-NINDS. Total Direct Support: \$780,000. 02/01/2007 - 01/31/2012

Non-governmental

Role: PI. PI: Mazzoni P. Title: "Impairment of motor learning as a biologic marker of pre-symptomatic Huntington's disease." Grant type: non-NIH. Huntington's Disease Society of America: Investigator Research Grant. Total Direct Support: \$100,000. 07/01/2003 - 06/30/2005

Role: PI. PI: Mazzoni P. Investigators: Mazzoni P, Agrawal S. Title: "Treating Freezing of Gait in Patients with Parkinson's Disease Using a Novel Vibration Shoe." Grant type: Non-NIH. Parkinson's Disease Foundation: Pilot research award (Collaboration with Prof. Sunil Agrawal, Dept. of Mechanical Engineering). Total Direct Support: \$50,000. 04/01/2014 - 06/30/2015

Role: Co-investigator. PI: Krakauer JW. Investigators: Krakauer J, Mazzoni P, Stein J. Title: "Tracking and Altering the Time Course of Spontaneous Biological Recovery After Stroke." Grant type: non-NIH. James S. McDonnell Foundation: JMSF Grant 220020220. 10/01/2012 - 04/30/2014

Role: Co-investigator. PI: Fahn, S. Investigators: Mazzoni P, Fahn S, et al. Title: "Motor control abnormalities in Parkinson's disease." Grant type: non-NIH. Parkinson's Disease Foundation: Center grant for research in Parkinson's Disease. 07/01/2003 - 06/30/2014

Role: PI. PI: Mazzoni P. Title: "The Natural Speed of Movements in Normal Motor Control". Grant type: non-NIH. Gatsby Charitable Foundation: Gatsby Initiative in Brain Circuitry Pilot Award. Total Direct Support: \$50,000. 08/01/2007 - 04/30/2010

Role: Co-PI. Co-PIs: Shohamy D, Mazzoni P. Investigators: Sharp M, Shohamy D, Mazzoni P. Title: "Treating Long-term cognitive and motor consequences of the dopamine-deplete state in Parkinson's patients." Grant type: Non-NIH. Parkinson's Disease Foundation: Pilot research

award (Collaboration with Prof. Daphna Shohamy, Dept. of Psychology). Total Direct Support: \$50,000. 04/01/2015 - 03/30/2016

Role: Co-investigator. Co-PIs: Agrawal S, Mazzone P. Investigators: Zanutto D, Mazzone P, Agrawal S. Title: "SoleSound: a fully portable instrumented footwear for accurate gait analysis." Grant type: Non-NIH. Coulter Grant, Columbia-Coulter Translational Research Partnership (Collaboration with Prof. Sunil Agrawal, Dept. of Mechanical Engineering). Total Direct Support: \$100,000. 07/01/2015 - 06/30/2016

ICTS Grant (PI: Arye Nehorai) 4/01/18-3/31/19 0.12 calendar
Barnes Jewish Hospital Foundation \$50,000

Modeling and Tracking Freezing of Gait in Parkinson Disease

The goal of this project is to develop a reliable and valid method of identify freezing of gait episodes in real time using wearable sensors.

Role: Co-I

CLINICAL TITLES AND RESPONSIBILITIES

Current

Associate Professor of Neurology at Washington University in St. Louis. 4 half-day outpatient E&M sessions per week, evaluating and treating patients with any type of movement disorders.

Staff Attending, Barnes-Jewish Hospital. Inpatient neurology consult service (attending on resident team), 4 weeks half-time/year.

TEACHING ACTIVITIES

Lectures To Undergraduate Students

Undergraduate Course "The Neuroscience of Movement", Dept. of Biology, Washington University in St. Louis. Motor Learning. One lecture, 3/5/2020.

Lectures To Medical Students

Development and Neural Systems (second-year medical students). Motor Pathways. One yearly lecture. 2017 - present

The Neural Sciences course (first-year medical students). The Basal Ganglia. One yearly lecture. 2005 - 2016

Lectures To Residents

Neurology Resident Lecture Series, Dept. of Neurology, Columbia University Medical Center. 1-3 yearly lectures. March 2003 – July 2016

Neurology Resident Case Conferences series, Washington University School of Medicine. Movement Disorders, 2 lectures in 2019; 6 lectures in 2020.

Physical Medicine and Rehabilitation Resident Lecture Series, Washington University School of Medicine. Overview of abnormal movements. 1 lecture, September 2019; 1 lecture in 2020.

Motor System Course, Program in Physical Therapy, Washington University School of Medicine. Abnormal movements and motor control. 1 lecture, October 2019.

Columbia University CME Courses

Basic & Clinical Neuroscience Course. "Clinical Features of Cerebellar Disease." One lecture/year. 2003-2016

Basic & Clinical Neuroscience Course. "Basal Ganglia: Behavior." One lecture/year. 2008

Transcranial Magnetic Stimulation (TMS): Applications to Neuropsychiatry. "TMS in Neurology."
Two lecture/year. 2005 - 2008

Other Teaching

- 1986-88 Physics Tutor, Office of Academic Support and Instructional Services, University of California, San Diego
- 1991 Teaching Assistant, Undergraduate Course "Introduction To Psychology," Dept. of Brain and Cognitive Sciences, Massachusetts Institute of Technology
- 2002-2010 General Neurology Ward Attending, one month/year, Harlem Hospital - Columbia University Affiliation, New York
- 2000-pres. Outpatient clinic supervision of Movement Disorders Fellows and Neurology Residents. 4-12 half-days/year

Research Trainees

- 2000 John Ruvo (3 months). High school student, Intel Science Program
- 2003, 2006 Sophie Ryan (3 months in 2003, 3 months in 2006). College student (Dartmouth)
- 2004 Michael Scharfstein (1 month). College student (MIT)
- 2004 Leia Bagesteiro, PhD (1 year). Post-doctoral fellow. Currently: Assistant Professor, Program in Physical Therapy, Universidade Cidade de São Paulo, Sao Paulo, Brazil.
- 2005 Anna Hristova, MD (1 year). Post-doctoral fellow. Currently: Assistant Professor of Clinical Neurology, Center for Movement Disorders, Virginia Commonwealth University, Richmond, VA
- 2006 Matthew Wallenstein (3 months). Medical student, Columbia University
- 2005-2008 Jonathan Sisti (3 months each in 2005, 2007, 2008). High school student.
- 2008 Joseph Chan (3 months). MD-PhD program student, Columbia University, Program in Neurobiology and Behavior (co-mentored with Dr. Ning Qian)
- 2008 Ting Zhou (3 months). Medical student, Columbia University
- 2008-2009 Robert McGovern (1 year). Medical student, Columbia University, recipient of Doris Duke Clinical Fellowship. Currently: Neurosurgery Resident, Columbia University Medical Center
- 2009-2012 Britne Shabbott, PhD. Post-doctoral fellow. Currently: Science Teacher, north Haven High School, North Haven, CT
- 2012-2013 Elinor Harrison. Post-bac student, Columbia University
- 2019-2020 Elinor Harrison, PhD. Post-doctoral Fellow, Washington University in St. Louis

OTHER PROFESSIONAL ACTIVITIES

Computer Programming

Languages: RealBasic, C, Fortran, IGOR, Filemaker.

Projects

- 1989 Wrote computer program to simulate neural network model of coordinate transformation in posterior parietal cortex.

- 1999 Created custom electronic record system for managing clinical information for my own patients (currently in use in my clinical practice)
- 2001 Wrote custom routines for analysis of human movement data (currently in use in the Motor Performance Lab and regularly updated)
- 2001 Created database for maintaining summary information about patients in the Division of Movement Disorders at Columbia University (currently in use by the Division's clinical staff)
- 2002 Planned and executed the creation of a digital version of the patient video library of the Division of Movement Disorders at Columbia University
- 2003 Wrote custom software package for data collection, visual stimulus display, and experiment control for human motor control studies (currently in use in the Motor Performance Lab and regularly updated)

Other

- 2001-2016 Video Database Manager, Division of Movement Disorders, Dept. of Neurology, Columbia University Medical Center

BIBLIOGRAPHY

Peer-Reviewed Articles

(except for Clinical Case Reports and Group-authored Articles)

(* = corresponding author)

1. **Mazzoni** P, Andersen RA, Jordan MI. A more biologically plausible learning rule for neural networks. *Proceedings of the National Academy of Science, USA* 88:4433-4437, 1991. PMID: PMC51674
2. **Mazzoni** P, Andersen RA, Jordan MI. A more biologically plausible learning rule than backpropagation applied to a network model of cortical area 7a. *Cerebral Cortex* 1:293-307, 1991. PMID: 1822737
3. **Mazzoni** P, Bracewell RM, Barash S, Andersen RA. Spatially tuned auditory responses in area LIP of macaques performing delayed memory saccades to acoustic targets. *Journal of Neurophysiology* 75:1233-1241, 1996. PMID: 8867131
4. **Mazzoni** P, Bracewell RM, Barash S, Andersen RA. Motor intention activity in the macaque's lateral intraparietal area. I. Dissociation of motor plan from sensory memory. *Journal of Neurophysiology* 76:1439-1456, 1996. PMID: 8890265
5. Bracewell RM, **Mazzoni** P, Barash S, Andersen RA. Motor intention activity in the macaque's lateral intraparietal area. II. Changes of motor plan. *Journal of Neurophysiology* 76:1457-1464, 1996. PMID: 8890266
6. Stricanne B, Andersen RA, **Mazzoni**, P. Eye-centered, head-centered, and intermediate coding of remembered sound locations in area LIP. *Journal of Neurophysiology* 76:2071-2076, 1996. PMID: 8890315
7. Li CR, **Mazzoni** P, Andersen RA. Effect of reversible inactivation of macaque lateral intraparietal area on visual and memory saccades. *Journal of Neurophysiology* 81:1827-1838, 1999. PMID: 10200217
8. Meng X, **Mazzoni** P, Qian N. Cross-fixation transfer of motion aftereffects with expansion motion. *Vision Research* 46:3681-3689, 2006. PMID: 16824574

9. **Mazzoni** P and Krakauer JW. An implicit plan overrides an explicit strategy during visuomotor adaptation. *Journal of Neuroscience* 26:3642-5, 2006. PMID: 16597717
10. Krakauer JW, **Mazzoni** P, Ghazizadeh A, Ravindran R, Shadmehr R. Generalization of Motor Learning Depends on the History of Prior Action. *PLOS Biology* 4:e316, 2006. PMCID: PMC1563496
11. **Mazzoni*** P, Hristova A, Krakauer JW. Why don't we move faster? Parkinson's disease, movement vigor, and implicit motivation. *Journal of Neuroscience* 27:7105-7116, 2007. PMID: 17611263
12. Zarahn E, Weston GD, Liang J, **Mazzoni** P, Krakauer JW. Explaining savings for visuomotor adaptation: linear time-invariant state-space models are not sufficient. *Journal of Neurophysiology* 100:2537-2548, 2008. PMCID: PMC2585408
13. **Mazzoni*** P and Wexler N. Parallel explicit and implicit control of reaching. *PLOS One* 4(10): e7557, 2009. PMCID: 19847295
14. Pearson TS, Krakauer JW, **Mazzoni** P*. Learning not to generalize: modular adaptation of visuomotor gain. *Journal of Neurophysiology* 103:2938-2952, 2010. PMCID: PMC2888232
15. Huang VS, **Mazzoni** P, Krakauer JW. Rethinking motor learning and savings in error-based paradigms: adaptation, use-dependent plasticity, and operant conditioning. *Neuron* 70(4): 787-801, 2011. PMCID: PMC3134523
16. Shmuelof L, Krakauer JW, **Mazzoni** P. How is a motor skill learned? Change and invariance at the levels of task success and trajectory control. *Journal of Neurophysiology* 108(2):578-594, 2012. PMCID: 22514286
17. Kitago T, Liang J, Huang VS, Hayes S, Simon P, Tenteromano L, Lazar RM, Marshall RS, **Mazzoni** P, Lennihan L, Krakauer JW. Improvement After Constraint-Induced Movement Therapy: Recovery of Normal Motor Control or Task-Specific Compensation? *Neurorehabilitation and Neural Repair* 27:99-109, 2013. PMID: 22798152
18. Shmuelof L, Huang VH, Haith A, Delnicki RJ, **Mazzoni** P, Krakauer JW. Overcoming motor "forgetting" through reinforcement of learned actions. *Journal of Neuroscience* 32:14617-14621, 2012. PMID: 23077047
19. Qian N, Jiang Y, Jiang ZP, **Mazzoni** P. Movement duration, Fitts's law, and an infinite-horizon optimal feedback control model for biological motor systems. *Neural Computation* 25:697-724, 2013. PMID 23272916
20. Kitago T, Ryan SL, **Mazzoni** P, Krakauer J, Haith AM. Unlearning versus savings in visuomotor adaptation: comparing effects of washout, passage of time, and removal of errors on motor memory. *Frontiers in Human Neuroscience* 7:307, 2013. PMID 23874277
21. Shabbott B, Ravindran R, Schumacher JW, Wasserman PB, Marder KS, **Mazzoni*** P. Learning fast accurate movements requires intact frontostriatal circuits. *Frontiers in Human Neuroscience* 7, 13;7:752, 2013. PMID: 24312037
22. Shmuelof L, Yang J, Caffo B, **Mazzoni** P, Krakauer JW. The neural correlates of learned motor acuity. *Journal of Neurophysiology* 112: 971-980, 2014. PMID: 2484846
23. Kitago T, Goldsmith J, Harran M, Kane L, Berard J, Huang S, Ryan SL, **Mazzoni** P, Krakauer JW, Huang VS. (2015) Robotic therapy for chronic stroke: general recovery of

impairment or improved task-specific skill? *Journal of Neurophysiology* 114(3):1885-94. doi: 10.1152/jn.00336.2015. PMID: 26180120

24. Vaswani PA, Shmuelof L, Haith AM, Delnicki RJ, Huang VS, **Mazzoni P**, Shadmehr R, Krakauer JW. (2015) Persistent residual errors in motor adaptation tasks: reversion to baseline and exploratory escape. *Journal of Neuroscience* 35:6969-6977. PMID: 25926471
25. Rao AK, **Mazzoni P**, Wasserman P, Marder KS. Longitudinal Change in Gait and Motor Function in Pre-manifest Huntington's Disease. *PLoS Currents* 3:RRN1268, 2011. PMID: 22008726
26. Arkadir D, Radulescu A, Raymond D, Lubarr N, Bressman SB, **Mazzoni P**, Niv Y. DYT1 dystonia increases risk taking in humans. *Elife* 2016 Jun 1;5. pii: e14155. doi: 10.7554/eLife.14155. PMID: 27249418
27. Li Z, **Mazzoni P**, Song S, Qian N. A Single, Continuously Applied Control Policy for Modeling Reaching Movements with and without Perturbation. *Neural Computation*. 2018 Feb;30(2):397-427. doi: 10.1162/neco_a_01040. PMID: 29162001
28. McGovern RA, Nelp TB, Kelly KM, Chan AK, Mazzoni P, Sheth SA, Honig LS, Teich AF, McKhann GM. Predicting Cognitive Improvement in Normal Pressure Hydrocephalus Patients Using Preoperative Neuropsychological Testing and Cerebrospinal Fluid Biomarkers. *Neurosurgery*. 2019;85(4):E662–E669. doi:10.1093/neuros/nyz102
29. Prateek GV, Mazzoni P, Earhart GM, Nehorai A. Gait Cycle Validation and Segmentation using Inertial Sensors [published online ahead of print, 2019 Nov 25]. *IEEE Trans Biomed Eng*. 2019;10.1109/TBME.2019.2955423. doi:10.1109/TBME.2019.2955423
30. Rawson KS, Cavanaugh JT, Colon-Semenza C, DeAngelis T, Duncan RP, Fulford D, LaValley MP, Mazzoni P, Nordahl T, Quintiliani LM, Saint-Hilaire M, Thomas CA, Earhart GM, Ellis TD. Design of the WHIP-PD study: a phase II, twelve-month, dual-site, randomized controlled trial evaluating the effects of a cognitive-behavioral approach for promoting enhanced walking activity using mobile health technology in people with Parkinson-disease. *BMC Neurol*. 2020 Apr 20;20(1):146. doi: 10.1186/s12883-020-01718-z. PMID: 32312243
31. Harrison EC, Earhart GM, Leventhal D, Quinn L, Mazzoni P. A walking dance to improve gait speed for people with Parkinson disease: a pilot study. *Neurodegener Dis Manag*. 2020 Oct;10(5):301-308. doi: 10.2217/nmt-2020-0028. Epub 2020 Sep 3. PMID: 32878538

Clinical Case Reports

32. **Mazzoni P** and Ford B. The freezing of time as a presenting symptom of Parkinson's disease [letter]. *New England Journal of Medicine*. 341(17):1317-8, 1999. PMID: 10577086
33. **Mazzoni P**, Chiriboga CA, Millar WS, Rogers A. Intracerebral aneurysms in human immunodeficiency virus infection: case report and literature review. *Pediatric Neurology* 23: 252-255, 2000. PMID: 11033289
34. Grove M, Vonsattel JP, **Mazzoni P**, et al. Huntington's disease. *Sci Aging Knowledge Environ* 2003(43):dn3, 2003. PMID: 14586062

35. Miller JM, Vorel SR, Tranguch AJ, Kenny ET, **Mazzoni P**, van Gorp WG, Kleber HD. Anhedonia after a selective bilateral lesion of the globus pallidus. *American Journal of Psychiatry* 163:786-8, 2006. PMID: 16648316
36. Louis ED, Broussolle E, Goetz CG, Krack P, Kaufmann P, **Mazzoni P**. Historical underpinnings of the term essential tremor in the late 19th century. *Neurology* 71: 856-859, 2008. PMID: 18779514
37. Poston KL, McGovern RA, Goldman JS, Caccappolo E, **Mazzoni* P**. Fragile X-associated tremor/ataxia syndrome (FXTAS) with myoclonus. *Movement Disorders* 25: 514-516, 2010. PMID: 20063436
38. Diaz NL, Hanspal EK, **Mazzoni* P**. Painless Legs and Moving Toes: Symptom Reduction During Pregnancy. *Movement Disorders* 27(2):328-329, 2012. PMID: 21953579
39. Leonardos A, Greene PE, Weimer LH, Khandji AG, **Mazzoni* P**. Hemifacial Spasm Associated with Intraparenchymal Brainstem Tumor. *Movement Disorders* 26(13):2325-2326, 2011. PMID: 22109850
40. Louis ED, **Mazzoni P**, Ma KJ, Moskowitz CB, Lawton A, Garber A, Vonsattel JP. Essential tremor with ubiquitinated intranuclear inclusions and cerebellar degeneration. *Clinical Neuropathology* 31(3):119-126, 2012. PMID: 22551915
41. Pollack M, Dragatsi D, **Mazzoni P** (2015) A Case of Tardive Akathisia Converting to Conversion Disorder. *Annals of Psychiatry Mental Health* 3(2): 1023.

Review Articles And Book Chapters

42. Andersen RA, Brotchie PB, **Mazzoni P**. Evidence for area LIP as the posterior eye field. *Current Opinion In Neurobiology* 2:840-846, 1992. PMID: 1477549
43. Selverston AI, **Mazzoni P**. Flexibility of computational units in invertebrate central pattern generators. In: Durbin RM, Miall RC, Mitchison GJ., eds. *The Computing Neuron*. New York: Addison-Wesley, pp. 205-228, 1989
44. **Mazzoni P**, Andersen RA. Coordinate transformations for gaze coding in the posterior parietal cortex. In: M. A. Arbib, ed. *Handbook of Brain Theory and Neural Networks*. Cambridge: MIT Press, 1991
45. **Mazzoni* P**, Jain S. Myoclonus. In: S. Gilman, ed. *Neurobiology of Disease*. San Diego: Elsevier, 2006
46. **Mazzoni* P**, Bracewell RM. The Persistent Mystery of the Basal Ganglia's Contribution to Motor Control. *Advances in Clinical Neuroscience & Rehabilitation* 10(5):22-26, 2010
47. Krakauer JW and **Mazzoni P**. Human sensorimotor learning: adaptation, skill, and beyond. *Current Opinion in Neurobiology* 21(4):636-44, 2011. PMID: 21764294
48. **Mazzoni* P**, Shabbott BA, Cortes JC. Motor control abnormalities in Parkinson's disease. *Cold Spring Harbor Perspectives in Medicine* 2(6):a009282, 2012. PMID: 22675667
49. Zhuang X, **Mazzoni P**, Kang UJ. The role of neuroplasticity in symptom manifestation and treatment effect in Parkinson's disease. *Nature Reviews Neurology* 9(5):248-56, 2013. PMID: 23588357

Books

50. **Mazzoni P**, Rowland LP (eds.). *Merritt's Neurology Handbook*. Lippincott, Williams, & Wilkins, Baltimore, 2001
51. **Mazzoni P**, Pearson TS, Rowland LP (eds.). *Merritt's Neurology Handbook (2nd ed.)*. Lippincott, Williams, & Wilkins, Baltimore, 2006

Letters, Editorials

52. Gottlieb J, **Mazzoni P**. Action, illusion, and perception. [Comment] *Science* 303:317-8, 2004. PMID: 14726577
53. **Mazzoni*** P (2008). Efficient motor control: how can less be more? [Comment] *Journal of Physiology* 586(17): 4031, 2008. PMID: 18765517
54. Sharp ME and **Mazzoni P** (2014). What is the best initial treatment in Parkinson's disease? [Comment] *J R Coll Physicians Edinb* 44(4):291-292. PMID: 25516899 DOI: 10.4997/JRCPE.2014.409

Consortium And Group-Authored Articles (Partial List)

55. Predict-HD Investigators Of The Huntington Study Group. CAG-repeat length and the age of onset in Huntington disease (HD): a review and validation study of statistical approaches. *Am J Med Genet B Neuropsychiatr Genet* 153B(2):397-408, 2010
56. Predict-HD Investigators Of The Huntington Study Group. Mild cognitive impairment in prediagnosed Huntington disease. *Neurology* 75(6):500-507, 2010
57. Predict-HD Investigators Of The Huntington Study Group. Challenges assessing clinical endpoints in early Huntington disease. *Movement Disorders* 25(15):2595-603, 2010
58. Predict-HD Investigators Of The Huntington Study Group. Early changes in the hypothalamic region in prodromal Huntington disease revealed by MRI analysis. *Neurobiology of Disease* 40(3):531-543, 2010
59. Predict-HD Investigators Of The Huntington Study Group. Cerebral cortex structure in prodromal Huntington disease. *Neurobiology of Disease* 40(3):544-554, 2010
60. Huntington Study Group DOMINO Investigators. A futility study of minocycline in Huntington's disease. *Movement Disorders* 25(13):2219-24, 2010
61. Predict-HD Investigators Of The Huntington Study Group. Estimating premorbid IQ in the prodromal phase of a neurodegenerative disease. *Clinical Neuropsychology* 25(5):757-77, 2011
62. Harrington DL, Smith MM, Zhang Y, Carlozzi NE, Paulsen JS; PREDICT-HD Investigators of the Huntington Study Group. Cognitive domains that predict time to diagnosis in prodromal Huntington disease. *Journal of Neurology, Neurosurgery, and Psychiatry* 83(6):612-9, 2012
63. Ashizawa T et al. Clinical characteristics of patients with spinocerebellar ataxias 1, 2, 3 and 6 in the US; a prospective observational study. *Orphanet J Rare Dis* 13;8:177, 2013. PMID: 24225362
64. Liu D, Long JD, Zhang Y, Raymond LA, Marder K, Rosser A, McCusker EA, Mills JA, Paulsen JS; PREDICT-HD Investigators and Coordinators of the Huntington Study Group. Motor onset and diagnosis in Huntington disease using the diagnostic confidence level. *Journal of Neurology* 2015 Dec;262(12):2691-8. doi: 10.1007/s00415-015-7900-7. Epub 2015 Sep 26. PMID: 26410751

65. Alcalay RN, Levy OA, Wolf P, Oliva P, Zhang XK, Waters CH, Fahn S, Kang U, Liang C, Ford B, **Mazzoni** P, Kuo S, Johnson A, Xiong L, Rouleau GA, Chung W, Marder KS, Gan-Or Z. *NPJ Parkinsons Dis* 2016;2. pii: 16004. Epub 2016 Mar 10. PMID: 27110593
66. San Luciano M, Tanner CM, Meng C, Marras C, Goldman SM, Lang AE, Tolosa E, Schüle B, Langston JW, Brice A, Corvol JC, Goldwurm S, Klein C, Brockman S, Berg D, Brockmann K, Ferreira JJ, Tazir M, Mellick GD, Sue CM, Hasegawa K, Tan EK, Bressman S, Saunders-Pullman R; Michael J. Fox Foundation LRRK2 Cohort Consortium. Nonsteroidal Anti-inflammatory Use and LRRK2 Parkinson's Disease Penetrance. *Mov Disord.* 2020 Oct;35(10):1755-1764. doi: 10.1002/mds.28189. Epub 2020 Jul 14. PMID: 32662532