

## CURRICULUM VITAE ET STUDIORUM

Dr. Davide Quaranta

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### **Formazione universitaria e post-universitaria.**

Laurea con lode in Medicina e Chirurgia conseguita presso l'Università Cattolica del Sacro Cuore (AA 2002/2003).

Diploma di Specialista in Neurologia conseguito presso la Scuola di Specializzazione in Neurologia dell'UCSC nell'anno accademico 2007/2008, con votazione 50/50 e lode.

Dottore di Ricerca in Neuropsicologia – titolo conseguito presso l'Università Cattolica del Sacro Cuore, XXIV ciclo (coordinatore Prof. Guido Gainotti).

### **Attività di ricerca**

La sua attività di ricerca è prevalentemente incentrata su

1. disturbi del comportamento dei pazienti affetti da patologie neurodegenerative (Malattia di Alzheimer, Demenza Frontotemporale, Afasia Primaria Progressiva, Demenza a Corpi di Lewy), con riguardo alle loro correlazioni con variabili cognitive, neurofisiologiche e biologico-molecolari;
2. disturbi del comportamento emozionale conseguenza di patologia cerebrale ischemica (Post-Stroke Depression);
3. alterazioni cognitivo-comportamentali in pazienti affetti da Sclerosi Multipla;
4. fattori clinici e neuropsicologici predittivi della evoluzione in demenza dei pazienti affetti da Mild Cognitive Impairment;
5. organizzazione del sistema semantico;
6. trattamento non farmacologico dei disturbi cognitivi nelle patologie neurodegenerative
7. riconoscimento di persone attraverso la faccia, la voce ed il nome

Membro per gli anni accademici 2012/2013 – 2015/2016 del comitato direttivo del Centro di Ricerca in Neuropsicologia dell'Università Cattolica del Sacro Cuore.

### **Riconoscimenti:**

Premio “giovane Ricercatore in Neurologia” 2009 (2° classificato; Premio Lilly – SIN; Roma, Istituto superiore di Sanità, aprile 2009)

### **Attività professionale**

**1 novembre 2009 – presente:** Dirigente medico a tempo pieno presso il Policlinico Universitario “A. Gemelli” - Unità Operativa Complessa di Neurologia - Servizio di Neuropsicologia (responsabile prof. Paolo Maria Rossini) e Clinica della Memoria (responsabile Dr. Camillo Marra).

## Attività didattica

Docente presso il Corso di Laurea in Scienze e Tecniche psicologiche – Facoltà di Psicologia (Università Cattolica del Sacro Cuore, Milano) – insegnamento “Neuropsicologia”

Docente presso il Corso di Laurea Magistrale in Psicologia – Facoltà di Psicologia (Università Europea di Roma) – insegnamento “Neuropsicologia e laboratorio”

Docente presso la Scuola di Specializzazione in Neurologia (Università Cattolica del Sacro Cuore) – insegnamento “Psicometria e Neuropsicologia Clinica”

Docente presso il Master universitario di II livello “Psicodiagnostica e valutazione psicologica” – Consorzio universitario Humanitas (anni accademici 2014-2015, 2015-2016, 2016-2017, 2017-2018)

Docente presso il Master universitario di II livello “Neuropsicologia e Neuroscienze cliniche. Diagnosi e interventi riabilitativi in neuropsicologia e neuropsichiatria” – Consorzio universitario Humanitas (anni accademici 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019)

Docente presso il Master universitario di I livello “Neuropsicologia E Neuroscienze Cliniche” – Consorzio universitario Humanitas (anni accademici 2015-2016, 2016-2017, 2017-2018, 2018-2019)

## PUBBLICAZIONI

### Capitoli in libri

Bentivoglio AR, **Quaranta D**, Ho AK. Lesions Associated with Motor Speech; in Halliday G, Barker R, Rowe D (eds): Non-dopamine Lesions in Parkinson's Disease; Oxford University Press, New York, 2011

Marra C, **Quaranta D**. Ruolo della valutazione neuropsicologica nell'identificazione di forme di demenza a rapida progressione; in Gambina G, Cagnin A (eds): Demenze a rapida progressione; Edizioni Libreria Cortina, Verona, 2012

Marra C, **Quaranta D**, Gainotti G. La Malattia di Alzheimer; in Denes G, Pizzamiglio L, Guariglia C, Cappa S, Grossi D, Luzzatti C (eds): Manuale di neuropsicologia – normalità e patologia dei processi cognitivi (terza edizione); Zanichelli, Bologna, 2019

### Articoli su riviste nazionali ed internazionali

1. Acciarri A, Masullo C, Bizzarro A, Valenza A, **Quaranta D**, Marra C, Tiziano FD, Brahe C, Seripa D, Matera MG, Fazio VM, Gainotti G, Daniele A. Apoe epsilon2-epsilon4 genotype is a possible risk factor for primary progressive aphasia. *Ann Neurol*. 2006 Feb;59(2):436-7.
2. Di Lazzaro V, Pilato F, Dileone M, Saturno E, Profice P, Marra C, Daniele A, Ranieri F, **Quaranta D**, Gainotti G, Tonali PA. Functional evaluation of cerebral cortex in dementia with Lewy bodies. *Neuroimage*. 2007 Aug 15;37(2):422-9.
3. Marra C, **Quaranta D**, Zinno M, Misciagna S, Bizzarro A, Masullo C, Daniele A, Gainotti G. Clusters of cognitive and behavioral disorders clearly distinguish primary progressive aphasia from frontal lobe dementia, and Alzheimer's disease. *Dement Geriatr Cogn Disord*. 2007;24(5):317-26.
4. Gainotti G, Ferraccioli M, **Quaranta D**, Marra C. Cross-modal recognition disorders for persons and other unique entities in a patient with right fronto-temporal degeneration. *Cortex*. 2008 Mar;44(3):238-48.
5. Fasano A, Mazzone P, Piano C, **Quaranta D**, Soleti F, Bentivoglio AR. GPi-DBS in Huntington's disease: results on motor function and cognition in a 72-year-old case. *Mov Disord*. 2008 Jul 15;23(9):1289-92

6. **Quaranta D**, Marra C, Gainotti G. Mood Disorders after Stroke: Diagnostic Validation of the Poststroke Depression Rating Scale. *Cerebrovasc Dis*. 2008 Jul 23;26(3):237-243.
7. Di Lazzaro V, Pilato F, Dileone M, Profice P, Marra C, Ranieri F, **Quaranta D**, Gainotti G, Tonali PA. In vivo functional evaluation of central cholinergic circuits in vascular dementia. *Clin Neurophysiol*. 2008 Nov;119(11):2494-500.
8. Modoni A, Silvestri G, Vita MG, **Quaranta D**, Tonali PA, Marra C. Cognitive impairment in myotonic dystrophy type 1 (DM1): a longitudinal follow-up study. *J Neurol*. 2008 Nov;255(11):1737-42.
9. **Quaranta D**, Bizzarro A, Marra C, Vita MG, Seripa D, Pilotto A, Sebastiani V, Mecocci P, Masullo C. Psychotic symptoms in Alzheimer's disease and 5-HTTLPR polymorphism of the serotonin transporter gene: evidence for an association. *J Alzheimers Dis*. 2009 Jan;16(1):173-80.
10. Marra C, Marsili F, **Quaranta D**, Evoli A. Determinants of cognitive impairment in elderly myasthenia gravis patients. *Muscle Nerve*. 2009 Dec;40(6):952-9.
11. Patanella AK, Zinno M, **Quaranta D**, Nociti V, Frisullo G, Gainotti G, Tonali PA, Batocchi AP, Marra C. Correlations between peripheral blood mononuclear cell production of BDNF, TNF-alpha, IL-6, IL-10 and cognitive performances in multiple sclerosis patients. *J Neurosci Res*. 2010 Apr;88(5):1106-12.
12. Marra C, **Quaranta D**, Silvestri G, Modoni A. Myotonic Dystrophy: New Perspective On Treatment Of A Multisystemic Disease. *Drugs of the future* 2010, 35(3): 237-244.
13. Marra C, Ferraccioli M, Vita MG, **Quaranta D**, Gainotti G. Patterns of cognitive decline and rates of conversion to dementia in patients with degenerative and vascular forms of MCI. *Curr Alzheimer Res*. 2011 Feb 1;8(1):24-31.
14. Basso M, Modoni A, Spada D, Cassano A, Schinzari G, Lo Monaco M, **Quaranta D**, Tonali PA, Barone C. Polymorphism of CAG motif of SK3 gene is associated with acute oxaliplatin neurotoxicity. *Cancer Chemother Pharmacol*. 2011 May;67(5):1179-87.
15. Orth M; European Huntington's Disease Network, Handley OJ, Schwenke C, Dunnett S, Wild EJ, Tabrizi SJ, Landwehrmeyer GB. Observing Huntington's disease: the European Huntington's Disease Network's REGISTRY (**collaborator**). *J Neurol Neurosurg Psychiatry*. 2011 Dec;82(12):1409-12
16. Marra C, **Quaranta D**, Profice P, Pilato F, Capone F, Iodice F, Di Lazzaro V, Gainotti G. Central cholinergic dysfunction measured "in vivo" correlates with different behavioral disorders in Alzheimer's disease and dementia with Lewy body. *Brain Stimul*. 2011 Sep 15.
17. Di Giacomo R, Fasano A, **Quaranta D**, Della Marca G, Bove F, Bentivoglio AR. Rivastigmine as alternative treatment for refractory REM behavior disorder in Parkinson's disease. *Mov Disord*. 2012 Jan 30.
18. Galeotti F, Vanacore N, Gainotti S, Izzicupo F, Menniti-Ippolito F, Petrini C, Chiarotti F, Chattat R, Raschetti R; AdCare Study Group (**collaborator**). How legislation on decisional capacity can negatively affect the feasibility of clinical trials in patients with dementia. *Drugs Aging*. 2012 Aug 1;29(8):607-14
19. Marra C, Villa G, **Quaranta D**, Valenza A, Vita MG, Gainotti G. Probable Alzheimer's disease patients presenting as "focal temporal lobe dysfunction" show a slow rate of cognitive decline. *J Int Neuropsychol Soc*. 2012 Jan;18(1):144-50.
20. **Quaranta D**, Marra C, Gainotti G. Post-stroke depression: main phenomenological clusters and their relationships with clinical measures. *Behav Neurol*. 2012 Feb 20. [Epub ahead of print]
21. **Quaranta D**, Marra C, Rossi C, Gainotti G, Masullo C. Different apathy profile in behavioral variant of frontotemporal dementia and Alzheimer's disease: a preliminary investigation. *Curr Gerontol Geriatr Res*. 2012;2012:719250. Epub 2012 Apr 9.
22. Luigetti M, **Quaranta D**, Modoni A, Mereu ML, Lo Monaco M. Nerve conduction studies of the sural nerve: Normative data from a single-center experience. *Clin Neurophysiol*. 2012 Mar 21. [Epub ahead of print]
23. **Quaranta D**, Marra C, Zinno M, Patanella AK, Messina MJ, Piccininni C, Batocchi AP, Gainotti G.

- Presentation and validation of the multiple sclerosis depression rating scale: a test specifically devised to investigate affective disorders in multiple sclerosis patients. *Clin Neuropsychol*. 2012 May;26(4):571-87.
24. Masullo C, Piccininni C, **Quaranta D**, Vita MG, Gaudino S, Gainotti G. Selective impairment of living things and musical instruments on a verbal 'Semantic Knowledge Questionnaire' in a case of apperceptive visual agnosia. *Brain Cogn* 2012; 80: 155–159
  25. Quarrell OW, Handley O, O'Donovan K, Dumoulin C, Ramos-Arroyo M, Biunno I, Bauer P, Kline M, Landwehrmeyer GB; European Huntington's Disease Network (**collaborator**). Discrepancies in reporting the CAG repeat lengths for Huntington's disease. *Eur J Hum Genet*. 2012 Jan;20(1):20-6.
  26. Metzger S, Walter C, Riess O, Roos RA, Nielsen JE, Craufurd D; REGISTRY Investigators of the European Huntington's Disease Network (**collaborator**), Nguyen HP. The V471A polymorphism in autophagy-related gene ATG7 modifies age at onset specifically in Italian Huntington disease patients. *PLoS One*. 2013 Jul 22;8(7):e68951.
  27. Hubers AA, van Duijn E, Roos RA, Craufurd D, Rickards H, Bernhard Landwehrmeyer G, van der Mast RC, Giltay EJ; REGISTRY investigators of the European Huntington's Disease Network. Suicidal ideation in a European Huntington's disease population. *J Affect Disord*. 2013 Oct;151(1):248-58.
  28. Vittori A, Orth M, Roos RA, Outeiro TF, Giorgini F, Hollox EJ; Registry investigators of the European Huntington's Disease Network (**collaborator**).  $\beta$ -Defensin genomic copy number does not influence the age of onset in Huntington's Disease. *J Huntingtons Dis*. 2013;2(1):107-24.
  29. Luigetti M, **Quaranta D**, Conte A, Piccininni C, Lattante S, Romano A, Silvestri G, Zollino M, Sabatelli M. Frontotemporal dementia, Parkinsonism and lower motor neuron involvement in a patient with C9ORF72 expansion. *Amyotroph Lateral Scler Frontotemporal Degener*. 2013 Jan;14(1):66-9.
  30. Marra C, Gainotti G, Scaricamazza E, Piccininni C, Ferraccioli M, **Quaranta D**. The Multiple Features Target Cancellation (MFTC): an attentional visual conjunction search test. Normative values for the Italian population. *Neurol Sci*. 2013 Feb;34(2):173-80.
  31. Lapenta L, Brunetti V, Losurdo A, Testani E, Giannantoni NM, **Quaranta D**, Di Lazzaro V, Della Marca G. Transient Epileptic Amnesia: Clinical Report of a Cohort of Patients. *Clin EEG Neurosci*. 2013 Nov 7;45(3):179-183.
  32. Gainotti G, **Quaranta D**, Vita MG, Marra C. Neuropsychological predictors of conversion from mild cognitive impairment to Alzheimer's disease. *J Alzheimers Dis*. 2014;38(3):481-95
  33. **Quaranta D**, Gabriella Vita M, Spinelli P, Scaricamazza E, Castelli D, Lacidogna G, Piccininni C, Rossini PM, Gainotti G, Marra C. Does Semantic Memory Impairment in Amnesic MCI with Hippocampal Atrophy Conform to a Distinctive Pattern of Progression? *Curr Alzheimer Res*. 2014 Mar 16. [Epub ahead of print]
  34. Vecchio F, Miraglia F, Marra C, **Quaranta D**, Vita MG, Bramanti P, Rossini PM. Human brain networks in cognitive decline: a graph theoretical analysis of cortical connectivity from EEG data. *J Alzheimers Dis*. 2014 Jan 1;41(1):113-27.
  35. Ricciardi L, Bloem BR, Snijders AH, Daniele A, **Quaranta D**, Bentivoglio AR, Fasano A. Freezing of gait in Parkinson's disease: The paradoxical interplay between gait and cognition. *Parkinsonism Relat Disord*. 2014 Apr 18.
  36. Vita MG, Marra C, Spinelli P, Caprara A, Scaricamazza E, Castelli D, Canulli S, Gainotti G, **Quaranta D**. Typicality of words produced on a semantic fluency task in amnesic mild cognitive impairment: linguistic analysis and risk of conversion to dementia. *J Alzheimers Dis*. 2014 Jan 1;42(4):1171-8.
  37. Mariotti P, **Quaranta D**, Di Giacomo R, Bentivoglio AR, Mazza M, Martini A, Canestri J, Della Marca G. Rapid Eye Movement Sleep Behavior Disorder: A Window on the Emotional World of Parkinson Disease, A Window on Dreaming. *Sleep*. 2014 Oct 17.
  38. **Quaranta D**, Vita MG, Bizzarro A, Masullo C, Piccininni C, Gainotti G, Marra C. Cognitive and behavioral determinants of psychotic symptoms in Alzheimer's disease. *Dement Geriatr Cogn Disord*. 2015;39(3-4):194-206.

39. Marra C, Gainotti G, Fadda L, Perri R, Lacidogna G, Scaricamazza E, Piccininni C, **Quaranta D**. Usefulness of an Integrated Analysis of Different Memory Tasks to Predict the Progression from Mild Cognitive Impairment to Alzheimer's Disease: The Episodic Memory Score (EMS). *J Alzheimers Dis*. 2015 Nov 27;50(1):61-70.
40. **Quaranta D**, Piccininni C, Carlesimo GA, Luzzi S, Marra C, Papagno C, Trojano L, Gainotti G. Recognition disorders for famous faces and voices: a review of the literature and normative data of a new test battery. *Neurol Sci*. 2015 Dec 23.
41. Vecchio F, Miraglia F, **Quaranta D**, Granata G, Romanello R, Marra C, Bramanti P, Rossini PM. Cortical connectivity and memory performance in cognitive decline: A study via graph theory from EEG data. *Neuroscience*. 2015 Dec 24;316:143-150.
42. Santoro M, Nociti V, De Fino C, Caprara A, Giordano R, Palomba N, Losavio F, Marra C, Patanella AK, Mirabella M, Gainotti G, **Quaranta D**. Depression in multiple sclerosis: effect of brain derived neurotrophic factor Val66Met polymorphism and disease perception. *Eur J Neurol*. 2016 Jan 12.
43. **Quaranta D**, Caprara A, Piccininni C, Vita MG, Gainotti G, Marra C. Standardization, Clinical Validation, and Typicality Norms of a New Test Assessing Semantic Verbal Fluency. *Arch Clin Neuropsychol*. 2016 Aug;31(5):434-45.
44. **Quaranta D**, Gainotti G, Vita MG, Lacidogna G, Scaricamazza E, Piccininni C, Marra C. Are raw scores on memory tests better than age- and education-adjusted scores for predicting progression from amnesic Mild Cognitive Impairment to AD? *Curr Alzheimer Res*. 2016 Mar 14.
45. Gainotti G, **Quaranta D**, Marra C. A Comparison between Anxious-Depressive Disorders of Stroke and Multiple Sclerosis Patients, Evaluated with Specific Twin Scales. *J Trauma Stress Disor Treat* 2016 5:2.
46. Bonanni L, Cagnin A, Agosta F, Babiloni C, Borroni B, Bozzali M, Bruni AC, Filippi M, Galimberti D, Monastero R, Muscio C, Parnetti L, Perani D, Serra L, Silani V, Tiraboschi P, Padovani A; DLB-SINdem study group (**collaborator**). The Italian dementia with Lewy bodies study group (DLB-SINdem): toward a standardization of clinical procedures and multicenter cohort studies design. *Neurol Sci*. 2017 Jan;38(1):83-91.
47. Baake V, Reijntjes RHAM, Dumas EM, Thompson JC; REGISTRY Investigators of the European Huntington's Disease Network, Roos RAC. Cognitive decline in Huntington's disease expansion gene carriers (**collaborator**). *Cortex*. 2017 Oct;95:51-62.
48. Piccininni C, **Quaranta D**, Papagno C, Trojano L, Ferrara A, Luzzi S, Carlesimo GA, Marra C, Gainotti G. Famous people recognition through personal name: a normative study. *Neurol Sci*. 2018 Jan 30.
49. **Quaranta D**, Gainotti G, Di Giuda D, Vita MG, Cocciolillo F, Lacidogna G, Guglielmi V, Masullo C, Giordano A, Marra C. Predicting progression of amnesic MCI: The integration of episodic memory impairment with perfusion SPECT. *Psychiatry Res*. 2018 Jan 30;271:43-49
50. Piccininni C, Gainotti G, Trojano L, Luzzi S, Papagno C, Carlesimo GA, Marra C, **Quaranta D**. Item consistency in retrieving person-specific semantic information from faces and voices: An exploratory study in healthy subjects. *Visual cognition*, *in press*
51. Venneri A, Jahn-Carta C, de Marco M, **Quaranta D**, Marra C. Diagnostic and prognostic role of semantic processing in preclinical Alzheimer's disease. *Biomark Med*. 2018 Jun;12(6):637-651.
52. Nociti V, Santoro M, **Quaranta D**, Losavio FA, De Fino C, Giordano R, Palomba N, Rossini PM, Guerini FR, Clerici M, Caputo D, Mirabella M. BDNF rs6265 polymorphism methylation in Multiple Sclerosis: A possible marker of disease progression. *PLoS One*. 2018 Oct 23;13(10):e0206140.
53. Vecchio F, Miraglia F, **Quaranta D**, Lacidogna G, Marra C, Rossini PM. Learning Processes and Brain Connectivity in A Cognitive-Motor Task in Neurodegeneration: Evidence from EEG Network Analysis. *J Alzheimers Dis*. 2018;66(2):471-481.
54. McNulty P, Pilcher R, Ramesh R, Necuiniate R, Hughes A, Farewell D, Holmans P, Jones L; REGISTRY Investigators of the European Huntington's Disease Network (**collaborator**). Reduced Cancer Incidence in Huntington's Disease: Analysis in the Registry Study. *J Huntingtons Dis*. 2018;7(3):209-222.

