

Davide Crepaldi

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Education

PhD in Psychology, Linguistics and Cognitive Neurosciences Nov 2003–Jan 2008

University of Milano Bicocca, Italy

Thesis titled “Nouns and verbs in the brain: Neuropsychological, psycholinguistic and neuroimaging evidence”, freely available [here](#).

MS in Experimental Psychology Oct 1998–Sep 2003

University of Milano Bicocca, Italy

Thesis titled “Rappresentazione mentale di nomi e verbi: uno studio neuropsicologico su pazienti afasici” (“*The mental representation of nouns and verbs: a neuropsychological study on aphasic patients*”), freely available [here](#).

Academic posts

Research Scientist Dec 2010–Nov 2014

Department of Psychology, University of Milano Bicocca, Italy

Principal investigator on a 4-year grant awarded by the Italian Ministry of Education, University and Research. Main theme of research is reading and linguistic morphology.

Post-doctoral fellow Jan 2008–Nov 2010

Department of Psychology, University of Milano Bicocca, Italy

On 4-year, intra-mural funding under the supervision of prof. Claudio Luzzatti. Main theme of research was linguistic morphology and grammatical class.

Post-doctoral fellow Apr 2008–Mar 2009

Department of Psychology, Royal Holloway University of London, UK

On an ESRC post-doctoral fellowship under the supervision of prof. Kathy Rastle. Main theme of research was reading and linguistic morphology.

Publications

D. Crepaldi, E. A. Morone, L. S. Arduino, and C. Luzzatti. Morphological processing of printed nouns and verbs: Cross class priming effects. *Journal of Cognitive Psychology*, in press.

D. Crepaldi, M. Berlingeri, I. Cattinelli, N.D. Borghese, C. Luzzatti, and E. Paulesu. Clustering the lexicon in the brain: A meta-analysis of the neurofunctional evidence on noun and verb processing. *Frontiers in Human Neuroscience*, 7(303), 2013.

D. Crepaldi and S. Amenta. Cognitive theory development as we know it: Specificity, explanatory power and the brain. *Frontiers in Language Science*, 4(56), 2013.

M. Marelli, S. Amenta, E.A. Morone, and **D. Crepaldi**. Meaning is in the beholder's eye: Morpho-semantic effects in masked priming. *Psychonomic Bulletin and Review*, 20:534–541, 2013.

D. Crepaldi, K. Rastle, C.J. Davis, and S.J. Lupker. Seeing stems everywhere: Position-independent identification of stem morphemes. *Journal of Experimental Psychology: Human Perception and Performance*, 39:510–525, 2013.

S. Amenta and **D. Crepaldi**. Morphological processing as we know it: An analytical review of morphological effects in visual word identification. *Frontiers in Language Science*, 3(232), 2012.

D. Crepaldi, W.-C. Che, I.-F. Su, and C. Luzzatti. Lexical–semantic variables affecting picture and word naming in Chinese: A mixed logit model study in aphasia. *Behavioral Neurology*, 25:165–184, 2012.

D. Crepaldi, C. Ingnoli, R. Verga, A. Contardi, C. Semenza, and C. Luzzatti. On nouns, verbs, lexemes, and lemmas: Evidence from the spontaneous speech of seven aphasic patients. *Aphasiology*, 25:71–92, 2011.

D. Crepaldi, M. Berlingeri, E. Paulesu, and C. Luzzatti. A place for nouns and a place for verbs? A critical review of neurocognitive data on grammatical class effects. *Brain and Language*, 116:33–49, 2011.

D. Crepaldi, K. Rastle, M. Coltheart, and L. Nickels. ‘Fell’ primes ‘fall’, but does ‘bell’ primes ‘ball’? Masked priming with irregularly-inflected primes. *Journal of Memory and Language*, 63(1):83–99, 2010.

D. Crepaldi, K. Rastle, and C.J. Davis. Morphemes in their place: Evidence for position-specific identification of suffixes. *Memory and Cognition*, 38(3):312–321, 2010.

M. Marelli, **D. Crepaldi**, and C. Luzzatti. Head position and the mental representation of Italian nominal compounds. *The Mental Lexicon*, 4:430–455, 2009.

M. Berlingeri, **D. Crepaldi**, R. Roberti, G. Scialfa, C. Luzzatti, and E. Paulesu. Nouns and verbs in the brain: Grammatical class and task specific effects as revealed by fMRI. *Cognitive Neuropsychology*, 25:528–558, 2008.

S. Aggujaro, **D. Crepaldi**, C. Pistarini, M. Taricco, and C. Luzzatti. Neuro-anatomical correlates of impaired retrieval of verbs and nouns: Interaction of grammatical class, imageability and actionality. *Journal of Neurolinguistics*, 19:175–194, 2006.

D. Crepaldi, S. Aggujaro, L.S. Arduino, G. Zonca, G. Ghirardi, M. Inzaghi, M. Colombo, G. Chierchia, and C. Luzzatti. Noun–verb dissociation in Aphasia: The role of imageability and functional locus of the lesion. *Neuropsychologia*, 44(1):73–89, 2006.

C. Luzzatti, S. Aggujaro, and **D. Crepaldi**. Noun–verb double dissociation in Aphasia: Theoretical and neuroanatomical foundations. *Cortex*, 42:875–883, 2006.

J. Welkowitz, B.H. Cohen, and R.B. Ewen. *Introductory Statistics for the Behavioral Sciences*. Hoboken, NJ: John Wiley and Sons, 6th edition, 2006. [Italian translation by **Crepaldi, D.** (Eds. Crippa, F. and Rossi, G.), *Statistica per le scienze del comportamento*. Milano: Apogeo, 2009.]

Research

Funding.....

Short Visit Grant (€1,170) 2012

European Science Foundation, NetWords program

Two-week visit to the University of Gent, Belgium, to work on the development of a new frequency database for Italian.

FIRB-Futuro in Ricerca (€472,600) 2010

Italian Ministry of Education, University and Research

Four-year grant to set up my own lab on a project titled "Towards a complete model of reading: the visual identification of complex words".

Small Research Grant (£5,375) 2009

British Academy

One-year research project under the supervision of prof. Kathy Rastle titled "Why WITLESS is not LESSWIT: The representation of morpheme position in visual word recognition".

Post-Doctoral Fellowship (£76,552) 2008

Economic and Social Research Council, UK

One-year post-doctoral project under the supervision of prof. Kathy Rastle to work on visual word identification.

Endeavour Europe Award (\$23,300) 2006

Department of Education, Science and Training, Australian Government

Six-month, pre-doctoral research project under the supervision of prof. Max Coltheart to work on noun and verb morphology.

Editorial activity for learned journals.....

Guest reviewer: 24 international journals on experimental psychology, neuroscience and theoretical linguistics, including *Cognition*, *PLoS ONE*, *Journal of Memory and Language*, *JEP:LMC*, *JEP:HPP*, *Neuropsychologia*, *Neuropsychology*, *Cortex*, and *Cognitive Neuropsychology*.

Guest editor: *Frontiers in Language Science*.

Research project evaluation.....

Panelist 2013

Partnership Programme, National Research Council, Romania

30 to 36 months collaborative research and technological development projects, 2 to 5 institutions, budget up to ~ €670,000.

Reviewer 2012

Young Research Team Grants, National Research Council, Romania

12 to 36 months research projects, worth ~ €53,000 to ~ €160,000, PI < 10 years after PhD.

Reviewer 2012

Post-doctoral grants, National Research Council, Romania

12 to 24 months research projects, worth ~ €35,000 to ~ €70,000, PI < 5 years after PhD.

Invited / contributed talks at research departments.....

On word frequencies in general and subtitle-based frequencies for Italian Jan 2014

Department of Psychology, University of Milano Bicocca, Italy

A joint effort with Emmanuel Keuleers (University of Gent, Belgium). Contributed.

Nouns and verbs in the brain: Task effects and neural substrate Nov 2013

Department of Psychology, University of Montreal, Canada

Invited, hosted by Phaedra Royle.

A tale of two morphologies: A lemma model of complex word identification **Nov 2013**

Centre for Research on Brain, Language and Music, McGill University, Montreal, Canada

Invited, hosted by Karsten Steinhauer and Kristina Kasparian.

Get it in a bit! Early steps in the visual identification of complex words **Oct 2012**

Department of Psychology, University of Gent, Belgium

Invited, hosted by Emmanuel Keuleers and Marc Brysbaert.

Meaningless morphemes and the importance to stay in the right place **Jul 2009**

Department of Psychology, University of Milano Bicocca, Italy

Contributed.

Morpheme identity and morpheme position **Mar 2009**

Department of Psychology, Royal Holloway University of London, UK

Invited, hosted by Courtenay Norbury.

Nouns and verbs in the lexicon **May 2008**

Department of Psychology, Royal Holloway University of London, UK

Invited, hosted by Kathy Rastle.

Semantic and morphological priming between nouns and verbs **May 2007**

National Research Council, Rome, Italy

Invited, hosted by Saskia Arduino.

Modeling the recognition of morphologically complex written words **May 2006**

Macquarie Centre for Cognitive Sciences, Macquarie University, Sydney, Australia

Invited, hosted by Max Coltheart and Lyndsey Nickels.

Visiting periods.....

Department of Psychology, University of Gent, Belgium **Oct 2012**

Visiting fellow, funded by the NetWords program by the European Science Foundation

I've been working with Emmanuel Keuleers, Paweł Mandera and Marc Brysbaert towards new frequency values for Italian based on movie subtitles.

MACCS, Macquarie University, Sydney, Australia **Sep 2005–May 2006**

Visiting research student, funded by the Australian Government

I've been working on a computational model of reading for morphologically complex words, under the supervision of Max Coltheart and Lyndsey Nickels.

Poster and oral communications at international congresses.....

Since 2004, I've presented at international congresses **23 talks** and **21 posters** where I was either the **presenting or the senior author**. Representative congresses of my dissemination activity are the *European Workshop on Cognitive Neuropsychology* (6 posters/talks), the *Morphological processing conference (MOPROC)* (6), the annual meeting of the *Psychonomic Society* (4), the meeting of the *Federation of the European Neuropsychological Societies* (4), the *Architecture and Mechanisms for Language Processing (AMLaP)* (4), the *Science of Aphasia* (3) and the annual meeting of the *Academy of Aphasia* (3). A complete list of my talks/posters is available [here](#).

Teaching

Postgraduate levels.....

Mixed-effects modeling **2013**

PhD School in Neuroscience, University of Modena and Reggio Emilia, Italy

25 hours taught to ~10 students.

Linguistic impairments in brain damaged individuals	2012
<i>School of Neurology, University of Milano Bicocca, Italy</i>	
2 hours taught to ~20 students.	
Graduate level	
Computational models of reading	2011
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
15 hours taught to ~20 students.	
Computational models of reading	2010
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
15 hours taught to ~30 students.	
Multivariate data analysis	2010
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 8 hours taught to ~60 students.	
Statistics and research methodology	2010
<i>European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy</i>	
Tutorials, taught in English. 8 hours taught to ~10 students.	
Computational models of reading	2009
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
15 hours taught to ~30 students.	
Multivariate data analysis	2009
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 8 hours taught to ~60 students.	
Computational models of reading	2009
<i>European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy</i>	
Taught in English. 4 hours taught to ~10 students.	
Multivariate data analysis	2007
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 12 hours taught to ~100 students.	
Computational models of reading	2007
<i>European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy</i>	
Taught in English. 4 hours taught to ~10 students.	
Multivariate data analysis	2006
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 15 hours taught to ~100 students.	
Undergraduate level	
Psychometrics	2011
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 16 hours taught to ~100 students.	
Psychometrics	2010
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 16 hours taught to ~100 students.	
Psychometrics	2007
<i>Faculty of Psychology, University of Milano Bicocca, Italy</i>	
Tutorials. 16 hours taught to ~100 students.	

Psychometrics 2006
Faculty of Psychology, University of Milano Bicocca, Italy
Tutorials. 16 hours taught to ~100 students.

Professionals.....

Mixed-effects modeling 2012
Rehabilitation Service, Gallarate Hospital, Italy
Tutorials. 12 hours taught to 5 speech therapists.

Syntactic problems in aphasia 2005
Rehabilitation Service, Passirana di Rho Hospital, Italy
Tutorials. 4 hours taught to 4 speech therapists.

Research supervision

Postgraduate level.....

Anais De Santis 2013
Department of Psychology, University of Milano Bicocca, Italy
6-months internship towards professional licensing. We've been working on the visual identification of complex words using incremental masked priming.

Federica Degno 2013
Department of Psychology, University of Milano Bicocca, Italy
6-months internship towards professional licensing. We've been working on the visual identification of complex words in sentences using concurrent eye tracking and ERP registration.

Alessandra Valentini 2012
Department of Psychology, University of Milano Bicocca, Italy
6-months internship towards professional licensing. We've been working on the visual identification of complex words and line drawings using incremental masked priming.

Elena Angela Morone 2011
Department of Psychology, University of Milano Bicocca, Italy
6-months internship towards professional licensing. We've been working on the role of grammatical in visual word identification using masked priming and eye tracking.

Graduate level.....

Giulia Mapelli 2013–2014
Department of Psychology, University of Milano Bicocca, Italy
We're working on the visual identification of complex words and line drawings using masked priming.

Federica Degno 2012–2013
Department of Psychology, University of Milano Bicocca, Italy
We've been working on the visual identification of complex words in sentences using eye tracking. First class with honours.

Eleonora Guerra 2011–2012
Department of Psychology, University of Milano Bicocca, Italy
We've been working on masked priming in brain-damaged people (with Claudio Luzzatti). First class with honours.

Marianna Zarucchi 2011–2012
Department of Psychology, University of Milano Bicocca, Italy
We've been working on complex word reading in at-risk kids (with Claudio Luzzatti). First class with honours.

Alessandra Valentini 2010–2011

Department of Psychology, University of Milano Bicocca, Italy

We've been working on the comprehension of complex syntactic structures in brain-damaged people (with Claudio Luzzatti). First class with honours.

Wei-Chun Che 2009

European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy

We've been working on the role of grammatical class and morphology in Chinese picture and word naming, both with healthy and brain-damaged individuals (with Claudio Luzzatti). First class with honours.

Undergraduate level.....

Eleonora Guerra 2010

Department of Psychology, University of Milano Bicocca, Italy

We've been working on the visual identification of complex words using masked priming. First class with honours.

Administration

Local deputy coordinator and student tutor 2010

European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy

Student tutor 2008

European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy

Student tutor 2007

European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy

Clinical activity

Neuropsychologist 2006–2008

Passirana di Rho hospital, Italy

Assistant neuropsychologist 2004–2005

Passirana di Rho hospital, Italy

Professional and Learned Societies

The Academy of Aphasia, US since 2013

Member

The Psychonomic Society, US since 2012

Fellow

Lombardy Professional Psychologist Board, Italy since 2005

Member

Skills

Languages.....

Italian: Native speaker

English: Fluent, both oral and written

French: Good, both oral and written

Computing.....

OS: Mac OS 10, Linux (Ubuntu), Windows XP, Windows 7

Office and Scientific Publishing: OpenOffice, Windows Office, L^AT_EX

Stats: R, SPSS, Statistica, Lisrel

Psychological experiments: DMDX, E-Prime, Experiment Builder, MatLab Psychtoolbox

Other interests

Sports: Competitive swimming (1993–1997, 2006–now), three times Italian champion, holder of an Italian record from 2009 to 2012; basketball (1999–2001); soccer (2001–2003).

Politics: I am among the founders of a civic party that I lead to participate in the 2012 elections in the city of Legnano (59,000 inhabitants). The coalition won the election and I was elected to the city board.

Drama and theatre: I've been acting, directing, playing guitar and playing bass guitar in two local theater companies (2001–2008, 2013), around 50 times on stage.

Updated March 24, 2014