

Davide Crepaldi

Piazza Botta 11 – 27100, Pavia, Italy • ✉ davide.crepaldi@unipv.it

Current position

Full Professor

University of Pavia, Italy

From Jun 2024

Previous academic posts

Associate Professor

International School for Advanced Studies (SISSA), Trieste, Italy

Jul 2015–May 2024

Teaching Fellow

International School for Advanced Studies (SISSA), Trieste, Italy

Jan 2015–Jun 2015

Teaching and PhD student mentoring on reading, language and statistical learning

Research Scientist

Department of Psychology, University of Milano Bicocca, Italy

Dec 2010–Nov 2014

PI on a 4-year grant awarded by the Italian Ministry of Education, University and Research. Main theme of research was reading and linguistic morphology. I led a team of two postdocs and a few junior researchers.

Post-doctoral fellow

Department of Psychology, University of Milano Bicocca, Italy

Jan 2008–Nov 2010

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

Post-doctoral fellow

Department of Psychology, Royal Holloway University of London, UK

Apr 2008–Mar 2009

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

Education

PhD in Psychology, Linguistics and Cognitive Neurosciences

University of Milano Bicocca, Italy

Nov 2003–Jan 2008

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

MS in Experimental Psychology

University of Milano Bicocca, Italy

Oct 1998–Sep 2003

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](#).

Publications

O. Solaja and **D. Crepaldi**. The role of morphology in novel word learning: A registered report. *Royal Society Open Science*, in press.

J. Carr, M. Fantini, L. Perrotti, and **D. Crepaldi**. Readers target words where they expect to

minimize uncertainty. *Journal of Memory and Language*, 2024.

M. De Rosa, L. Vignali, A. D'Urso, M. Ktori, R. Bottini, and **D. Crepaldi**. Selective neural entrainment reveals hierarchical tuning to linguistic regularities in reading. *Neurobiology of Language*, 2024.

A. Nadalini, C. Marzi, M. Ferro, L. Taxitari, A. Lento, **D. Crepaldi**, and V. Pirrelli. Eye-voice and finger-voice spans in adults' oral reading of connected texts. Implications for reading research and assessment. *Mental Lexicon*, 2024.

C. Gambi, J. Lelonkiewicz, and **D. Crepaldi**. Do children (and adults) benefit from a prediction error boost in one-shot word learning? *Journal of Cognition*, 7:13, 2024.

N. Siegelman, I. Elgort, M. Brysbaert, N. Agrawal, S. Amenta, J. Arsenijević Mijalković, C. S. Chang, D. Chernova, F. Chetail, A. J. B. Clarke, A. Content, **D. Crepaldi**, N. Davaabold, S. Delgersuren, A. Deutsch, V. Dibrova, D. Drieghe, D. Filipović Đurđević, B. Finch, R. Frost, C. A. Gattei, E. Geva, A. Godfroid, L. Griener, E. Hernández-Rivera, A. Ivanenko, J. Järvikivi, L. Kawaletz, A. Khare, J. R. Lee, C. E. Lee, C. Manouilidou, M. Marelli, T. Mashanlo, K. Mišić, K. Miwa, P. Palma, I. Plag, Z. Rezanova, E. Riimed, J. Rueckl, S. Schroeder, I. A. Sekerina, D. E. Shalom, N. Slioussar, N. M. Slosar, V. Taler, K. Thériault, D. Titone, O. Tumeo, R. V. D. Wetering, A. Verma, A. F. Weiss, D. H. Wu, and V. Kuperman. Rethinking first language–second language similarities and differences in English proficiency: Insights from the ENGLISH Reading Online (ENRO) project. *Language Learning*, 74:1, 2024.

Y. Xu, L. Vignali, F. Sigismondi, **D. Crepaldi**, R. Bottini, and O. Collignon. Shared neural representations of object shape between the sighted and early blind. *PLoS Biology*, 21:e3001930, 2023.

L. Vignali, Y. Xu, J. Turini, O. Collignon, **D. Crepaldi**, and R. Bottini. Spatiotemporal dynamics of abstract and concrete semantic representations. *Brain and Language*, 243:105298, 2023.

J. Lelonkiewicz, M. Ktori, and **D. Crepaldi**. Morphemes as letter chunks: Linguistic information enhances the learning of visual regularities. *Journal of Memory and Language*, 130:104411, 2023.

S. Amenta*, J. Hasenäcker*, **D. Crepaldi****, and M. Marelli**. Prediction at the intersection of sentence context and word form: Evidence from eye-movements and self-paced reading. *Psychonomic Bulletin and Review*, 2022. (*Shared first authorship, **shared last authorship).

D. Crepaldi, M. Ferro, C. Marzi, A. Nadalini, V. Pirrelli, and L. Taxitari. Finger movements and eye movements during adults' silent and oral reading. In R. Levie, A. Bar-On, O. Ashkenazi, E. Dattner, and G. Brandes, editors, *Developing language and literacy: Studies in honor of Dorit Diskin Ravid*. Springer, 2022.

V. Pescuma, M. Ktori, E. Beyersmann, P.F. Sowman, A. Castles, and **Crepaldi, D.** Automatic morpheme identification across development: Magnetoencephalography (MEG) evidence from fast periodic visual stimulation. *Frontiers in Psychology*, 13:932952, 2022.

A.M. AuBuchon, E.M. Elliott, C.C. Morey, C. Jarrold, N. Cowan, , E. Adams, M. Attwood, B. Bayram, T.Y. Blakstvedt, G. Büttner, T. Castelain, S. Cave, **Crepaldi, D.**, E. Fredriksen, B. Glass, , D. Guitard, S. Hoehl, A. Hosch, S. Jeanneret, T.N. Joseph, C. Koch, J.R. Lelonkiewicz, G. Meissner, W. Mendenhall, D. Moreau, T. Ostermann, T. Özdoğru, F. Padovani, S. Poloczek, J.P. Röer,

C. Schonberg, C.K. Tamnes, M.J. Tomasik, B. Valentini, E. Vergauwe, H. Vlach, and M. Voracek. Lexical access speed and the development of phonological recoding during immediate serial recall. *Journal of Cognition and Development*, 23:5:624–643, 2022.

E. Viviani and **D. Crepaldi**. Masked morphological priming and sensitivity to the statistical structure of form-to-meaning mapping in L2. *Journal of Cognition*, 5:30, 2022.

J. Lelonkiewicz, M. Ullman, and **D. Crepaldi**. Knowledge of statistics or statistical learning? readers prioritize the statistics of their native language over the learning of local regularities. *Journal of Cognition*, 5:18, 2022.

M. De Rosa*, M. Ktori*, Y. Vidal, R. Bottini, and **D. Crepaldi**. Frequency-based discrimination in fast periodic visual stimulation. *Cortex*, 148:193–203, 2022. (*Shared first authorship).

M. De Rosa and **D. Crepaldi**. Letter chunk frequency does not explain morphological masked priming. *Psychonomic Bulletin and Review*, 29:589–599, 2022.

R. Bottini, P. Morucci, A. D’Urso, O. Collignon, and **D. Crepaldi**. The concreteness advantage in lexical decision does not depend on perceptual simulations. *Journal of Experimental Psychology: General*, 151:731–738, 2022.

V. Pescuma, C. Zanini, **D. Crepaldi**, and F. Franzon. Form and function: A study on the distribution of the inflectional endings in Italian nouns and adjectives. *Frontiers in Psychology*, 12:720228, 2021.

Y. Xu, L. Vignali, O. Collignon, **D. Crepaldi**, and R. Bottini. Brain network reconfiguration for narrative and argumentative thought. *Communications Biology*, 4:746, 2021.

E.M. Elliott, C.C. Morey, A.M. AuBuchon, N. Cowan, C. Jarrold, E. Adams, M. Attwood, B. Bayram, S. Beeler-Duden, T.Y. Blakstvedt, G. Büttner, T. Castelain, S. Cave, **Crepaldi, D.**, E. Fredriksen, B. Glass, A. Graves, D. Guitard, S. Hoehl, A. Hosch, S. Jeanneret, T.N. Joseph, C. Koch, J.R. Lelonkiewicz, G. Lupyan, A. McDonald, G. Meissner, W. Mendenhall, D. Moreau, T. Ostermann, T. Özdoğru, F. Padovani, S. Poloczek, J.P. Röer, C. Schonberg, C.K. Tamnes, M.J. Tomasik, B. Valentini, E. Vergauwe, H. Vlach, and M. Voracek. Multi-lab direct replication of Flavell, Beach and Chinsky (1966): Spontaneous verbal rehearsal in a memory task as a function of age. *Advances in Methods and Practices in Psychological Science*, 4:1–20, 2021.

G. Argiris, R.I. Rumiati, and **D. Crepaldi**. No fruits without color: Cross-modal priming and eeg reveal different roles for different features across semantic categories. *PLoS ONE*, 16:1–24, 2021.

J. Carr, V. Pescuma, M. Furlan, M. Ktori, and **D. Crepaldi**. Algorithms for the automated correction of vertical drift in eye-tracking data. *Behavior Research Methods*, 54:287–310, 2021.

J. Hasenäcker, O. Solaja, and **D. Crepaldi**. Does morphological structure modulate access to embedded word meaning in child readers? *Memory and Cognition*, 49:1334–1347, 2021.

J. Hasenäcker, M. Ktori, and **D. Crepaldi**. Morpheme position coding in reading development as explored with a letter search task. *Journal of Cognition*, 4:16, 2021.

Y. Vidal, E. Viviani, D. Zoccolan, and **D. Crepaldi**. A general-purpose mechanism of visual feature association in visual word identification and beyond. *Current Biology*, 31:1–7, 2021.

- J. Lelonkiewicz, M. Ktori, and **D. Crepaldi**. Morphemes as letter chunks: Discovering affixes through visual regularities. *Journal of Memory and Language*, 115:104152, 2020.
- C. Papagno, A. Casarotti, B. Zarino, and **D. Crepaldi**. A new test of action verb naming: Normative data from 290 italian adults. *Neurological Sciences*, 41:2811–2817, 2020.
- S. Amenta, **D. Crepaldi**, and M. Marelli. Consistency measures individuate dissociating semantic modulations in priming paradigms: A new look on semantics in the processing of (complex) words. *Quarterly Journal of Experimental Psychology*, 73:1546–1563, 2020.
- P. Mousikou, E. Beyersmann, M. Ktori, L. Javourey, **D. Crepaldi**, J. Ziegler, J. Grainger, and S. Schröder. Orthographic consistency influences morphological processing in reading aloud: Evidence from a cross-linguistic study. *Developmental Science*, 23:e12952, 2020.
- B. Zarino, A. Di Cristofori, G. Abete Fornara, G.A. Bertani, M. Locatelli, M. Caroli, P. Rampini, F. Cogiamanian, **D. Crepaldi**, and G. Carrabba. Long term follow-up of neuropsychological functions in patients with high grade gliomas: can cognitive status predict patient’s outcome after surgery? *Acta Neurochirurgica*, 162:803–812, 2020.
- J. Hasenäcker, O. Solaja, and **D. Crepaldi**. Food in the corner and money in the cashews: Semantic activation of embedded stems in the presence or absence of a morphological structure. *Psychonomic Bulletin and Review*, 27:155–161, 2020.
- P. Morucci, R. Bottini, and **D. Crepaldi**. Augmented modality exclusivity norms for concrete and abstract italian property words. *Journal of Cognition*, 2:42, 2019.
- R. Dessì, D. Bouchacourt, **D. Crepaldi**, and M. Baroni. Focus on what’s informative and ignore what’s not: Communication strategies in a referential game. *NeurIPS Workshop on Emergent Communication*, 2019.
- D. Crepaldi**, S. Amenta, and M. Marelli. For a probabilistic and multidisciplinary approach to the investigation of morphological processing. *Cortex*, 116:1–3, 2019.
- A. Nadalini, M. Marelli, R. Bottini, and **D. Crepaldi**. Local associations and semantic ties in overt and masked semantic priming. *CEUR Workshop Proceedings*, 2253, 2018.
- D. Crepaldi**. Open science, fair science. *Giornale Italiano di Psicologia*, 4:747–764, 2018.
- E. Borelli, **D. Crepaldi**, C.A. Porro, and C. Cacciari. The psycholinguistic and affective structure of words conveying pain. *PLoS ONE*, 13:1–29, 2018.
- J.A. Duñabeitia, **D. Crepaldi**, A.S. Meyer, B. New, C. Pliatsikas, E. Smolka, and M. Brysbaert. Multipic: A standardized set of 750 drawings with norms for six european languages. *Quarterly Journal of Experimental Psychology*, 71:808–816, 2018.
- R. Bottini, M. Bucur, and **D. Crepaldi**. The nature of semantic priming by subliminal spatial words. Embodied or disembodied? *Journal of Experimental Psychology: General*, 145:1160–1176, 2016.
- R. Bottini, D. Casasanto, A. Nadalini, and **D. Crepaldi**. Stepping out of the chinese room: Word meaning with and without consciousness. *CEUR Workshop Proceedings*, 1749, 2016.

- S. Amenta and **D. Crepaldi**. The variable mind? how apparently inconsistent effects might inform model building. *Frontiers in Psychology*, 7(185), 2016.
- D. Crepaldi**, L. Hemsworth, C.J. Davis, and K. Rastle. Masked suffix priming and morpheme positional constraints. *Quarterly Journal of Experimental Psychology*, 69:113–128, 2016.
- R. Bottini, **D. Crepaldi**, D. Casasanto, V. Crollen, and O. Collignon. Space and time in the sighted and blind. *Cognition*, 141:67–72, 2015.
- K. Rastle, A. Lavric, H. Elchlepp, and **D. Crepaldi**. Processing differences across regular and irregular inflections revealed through erps. *Journal of Experimental Psychology: Human Perception and Performance*, 41:747–760, 2015.
- S. Amenta, M. Marelli, and **D. Crepaldi**. The fruitless effort of growing a fruitless tree: Early morpho–orthographic and morpho–semantic effects in sentence reading. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 41:1587–1596, 2015.
- M. Marelli, S. Amenta, and **D. Crepaldi**. Semantic transparency in free stems: the effect of Orthography–Semantics Consistency in word recognition. *Quarterly Journal of Experimental Psychology*, 68(1571–1583), 2015.
- D. Crepaldi**, A. Casarotti, B. Zarino, and C. Papagno. How to become twice more precise in detecting neuropsychological impairments. *Frontiers in Psychology*, 65, 2014.
- 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*, 26(4):433–460, 2014.
- 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.
- S. Aggujaro, **D. Crepaldi**, E. Ripamonti, and C. Luzzatti. Lexical and semantic access in letter-by-letter dyslexia: A case report. *Brain and Language*, 95:225–226, 2005.
- Crepaldi, D.** (Ed.). *Linguistic Morphology*. Routledge, 2023.
- Crepaldi, D.** . *Neuropsicologia della lettura*. Roma: Carocci, 2020.
- G. Denes, **D. Crepaldi**, and M. Zorzi. Dislessie e disgrafie acquisite. In G. Denes and L. Pizzamiglio, editors, *Manuale di Neuropsicologia: Normalità e patologia dei processi cognitivi*. Bologna: Zanichelli, 2019.
- 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.....

PRIN 2023–2025

Italian Ministry of Education, University and Research (€210,000)

Three-year grant to study the statistical structure of words' orthographic forms and meanings. Principal Investigator.

PRIN Oct 2019–Sep 2021

Italian Ministry of Education, University and Research (€360,000)

Three-year grant to validate a tool for large-scale assessment of reading development. Co-investigator (PI: Vito Pirrelli, CNR, Pisa).

FARE Dec 2017–Nov 2022

Italian Ministry of Education, University and Research (€240,854)

Five-year grant to extend the scope of my ERC-funded research on reading and statistical learning. Principal Investigator.

PRIN Feb 2017–Jan 2020

Italian Ministry of Education, University and Research (€406,807)

Three-year grant to study the relationship between perception and word meaning in blind people. Principal Investigator.

ERC Starting Grant Sept 2016–Feb 2022

European Research Council (€1,498,000)

Five-year grant to study statistical learning in visual word identification and reading. Principal Investigator.

Short Visit Grant, NetWords program Oct 2012

European Science Foundation (€1,170)

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 Dec 2010–Nov 2014

Italian Ministry of Education, University and Research (€472,600)

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". Principal Investigator.

Small Research Grant Mar 2009–Feb 2010

British Academy, UK (£5,375)

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 Apr 2008–Mar 2009

Economic and Social Research Council, UK (£76,552)

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

Endeavour Europe Award Jan 2006–Jun 2006

Australian Department of Education, Science and Training (\$23,300)

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.....

Associate Editor: *Psychonomic Bulletin and Review*. From Jan 1, 2023, ongoing.

Deputy Editor (with a special focus on Registered Reports): *British Journal of Psychology*. From January 1, 2021, ongoing

Editor-in-chief, ad interim: *British Journal of Psychology*. February 2022 to October 2022.

Associate Editor: *British Journal of Psychology*. July 1, 2017 to December 31, 2020.

Editorial Board: *Journal of Cognition*. From January 1, 2019.

Guest Editor: *Cortex*. Together with Simona Amenta and Marco Marelli, I've edited a Special Issue on the 10th edition of the *International Morphological Processing Conference (MoProc)*, which we organized at SISSA in 2017.

Guest Editor: *Frontiers in Language Science*, 2015. Together with Simona Amenta, I edited a Special Issue titled "[The Variable Mind: How Apparently Inconsistent Effects Might Inform Model Building](#)".

Reviewer: I've reviewed ~170 papers for ~55 international journals on experimental psychology, neuroscience and theoretical linguistics, including *Trends in Cognitive Science*, *Cognition*, *Journal of Memory and Language*, *JEP:G*, *Psychonomic Bulletin and Review*, *Cerebral Cortex*, *Neuroimage*, *Neuropsychologia* and *Glossa*.

Research Project Evaluation.....

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| Agence Nationale de la Recherche | 2023 |
| <i>Reviewer</i> | |
| No budget or duration limit that I could see. | |
| Israeli Science Foundation | 2023 |
| <i>Reviewer</i> | |
| Funding for up to 5 years, no budget limit. | |
| Deutsche Forschungsgemeinschaft (DFG) | 2021 |
| <i>Reviewer</i> | |
| Funding for 3 years, budget of ~\$250,000. | |
| United States-Israel Binational Science Foundation | 2021 |
| <i>Reviewer</i> | |
| Funding for 3 years, budget of ~\$250,000. | |
| European Science Foundation, FWO Odysseus scheme | 2021 |
| <i>Reviewer</i> | |
| Funding up to 5 years and €5,000,000. | |
| Swiss National Science Foundation, NCCR scheme | 2019 |
| <i>Reviewer</i> | |
| Funding up to 12 years and CHF 20,000,000, to establish an interdisciplinary research network across institutions. | |
| European Research Council, Consolidator Grant | 2018 |
| <i>Reviewer</i> | |
| 5-year research projects, budget up to ~€2,000,000. | |
| European Research Council, Advanced Grant | 2016 |
| <i>Reviewer</i> | |
| 5-year research projects, budget up to ~€2,500,000. | |
| National Science Foundation, US | 2016 |
| <i>Reviewer</i> | |
| 3-year research projects, budget ~\$400,000. | |
| Ministry of Education, Singapore, Academic Research Fund | 2016 |
| <i>Reviewer</i> | |

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| 3-year research projects, budget up to ~\$600,000. | |
| European Commission, Marie Skłodowska-Curie, Individual Fellowships | 2016 |
| <i>Reviewer</i> | |
| Up to 3-year research projects, budget up to ~€250,000. | |
| The Stroke Association, UK | 2016 |
| <i>Reviewer</i> | |
| 3-year research projects, budget up to £210,000. | |
| Research Foundation Flanders (FWO), Belgium | 2015 |
| <i>Reviewer</i> | |
| 4-years research projects, budget up to €250,000. | |
| Macquarie University Research Fellowship, Australia | 2015 |
| <i>Reviewer</i> | |
| 3-year research projects, budget ~\$230,000. | |
| CUNY Collaborative Incentive Research Grant, US | 2014 |
| <i>Reviewer</i> | |
| 12-months collaborative research, budget up to \$30,000. | |
| Partnership Programme, National Research Council, Romania | 2013 |
| <i>Panelist</i> | |
| 30- to 36-month collaborative research and technological development projects, 2 to 5 institutions, budget up to ~€670,000. | |
| Young Research Team Grants, National Research Council, Romania | 2012 |
| <i>Reviewer</i> | |
| 12- to 36-month research projects, worth ~ €53,000 to ~€160,000, PI < 10 years after PhD. | |
| Post-doctoral grants, National Research Council, Romania | 2012 |
| <i>Reviewer</i> | |
| 12- to 24-month research projects, worth ~ €35,000 to ~€70,000, PI < 5 years after PhD. | |

Promotion committees.....

From April 2022, I've been asked to externally advise on the promotion of colleagues in the role of Assistant and Associate Professor, for University College London (UCL) and the University of Nova Gorica.

Master and PhD Committees (as external, invited member).....

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|---|-------------|
| Université de Lorraine | 2023 |
| <i>Teng Guo, PhD student in Psychology</i> | |
| On the role of statistical learning at the very beginning of learning to read | |
| Basque Center on Cognition, Brain and Language (BCBL) and Universidad del País Vasco | 2023 |
| <i>Giorgio Piazza, PhD student in Cognitive Neuroscience</i> | |
| Thesis titles: Foreigner directed speech: From speech adaptation to cortical tracking of the speech register directed to non-native listeners | |
| University of Lille, France | 2022 |
| <i>Amélie Menut, PhD student in Experimental Psychology</i> | |
| Thesis titles: Cross-linguistic influence of L1 morphological knowledge in L2. The case of French-English late bilinguals | |
| University of Trento, Italy | 2022 |
| <i>Giuseppe Di Dona and Pietro Mingardi, PhD student in Cognitive Science</i> | |

Theses titles: Abstraction, retrieval, and perceptual learning in the integrated processing of linguistic and talker-related information and Psychological Aspects of Pragmatics of Negation

University of Potsdam, Germany 2020

Laura Ciaccio, PhD student in Cognitive Science

Thesis title: Prefixed Words in Morphological Processing and Morphological Impairments.

Bar-Ilan University, Israel 2019

Maya Yablonski, PhD student in the Brain Research Center

Thesis title: Neural Pathways of Morphological Processing.

University of Milano-Bicocca, Italy 2018

Ilaria Mauri, PhD student in the Department of Psychology

Thesis title: The Relationship between Praxis and Language.

University of Milano-Bicocca, Italy 2017

Donatella Di Tucci, PhD student in the Department of Cognitive Sciences

Thesis title: Reading units in Italian children: Evidence from morphological, orthographic and semantic features on word reading process.

Macquarie University, Australia 2016

Ana Murteira, Master student in the Department of Cognitive Sciences

Thesis title: Taking Action in Hand: Effects of Gesture Observation on Action-Verb Naming.

University of New South Wales, Australia 2014

Joe Xu, PhD student in the Department of Psychology

Thesis title: The Effects of Semantic and Syntactic Factors on Complex Word Processing.

Tufts University, US 2014

Laura Blazej, Master student in the Department of Psychology

Thesis title: Processing Position Across Letters and Morphemes.

International School for Advanced Studies (SISSA), Italy 2014

Ritwik Kulkarni, PhD student in the Cognitive Neuroscience Sector

Thesis title: Exploring Language Mechanisms: The Mass-Count Distinction and The Potts Neural Network.

Talks at Research Departments.....

Department of Psychology, Stanford University

Title: Are Word Anything Special? The Connection between Statistical Learning and the Processing of Written Language

Invited by Laura Gwilliams.

Department of Psychology, University of Valencia, Spain December 2022

Title: Statistical Learning and Visual Word Identification

Invited by Manolo Perea.

Center for Brain and Cognition, Universitat Pompeu Fabra, Spain November 2022

Title: Anything Special about Words?

Invited by Luca Bonatti, Nuría Sebastián Gallés and Chiara Santolin.

CNR and Università di Napoli L'Orientale, Department of Classics, Italy May 2022

Title: La meravigliosa macchina: come il cervello ci rende incredibili lettori

Invited by Riccardo Palmisciano and Andrea Ercolani.

Oxford, UK March 2022

Title: Statistical Learning and Learning to Read

Invited by Kate Nation.

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| Queen Mary University of London, UK | March 2022 |
| <i>Title: The Connection between Statistical Learning and Reading: How Far Does It Go?</i> | |
| Invited by Elisabetta Versace. | |
| Haskins Laboratories, Yale and University of Connecticut, US | February 2022 |
| <i>Title: Reading and Statistical Learning, in Humans and Rats</i> | |
| Invited by Noam Siegelman and Jay Rueckl. | |
| Scuola IMT Alti Studi, Lucca, Italy | November 2021 |
| <i>Title: Meaning and Awareness</i> | |
| Invited by Emiliano Ricciardi. | |
| Sorbonne Université, Paris, France | February 2021 |
| <i>Title: Anything Special about Visual Word Identification?</i> | |
| Invited by Paolo Bartolomeo. | |
| Heriot Watt University, Edinburgh, UK | September 2018 |
| <i>Title: The Reading Brain as Statistical Learning Machine</i> | |
| Invited by Maria Garraffa and Anna Sedda. | |
| Center for Mind/Brain Sciences, University of Trento, Italy | July 2018 |
| <i>Title: Implementing an open-everything policy in the lab</i> | |
| Invited by Carlo Miniussi. A podcast of the talk is available here . | |
| Cornell University, Ithaca, US | November 2017 |
| <i>Title: Reading as Statistical Learning (in spite of language arbitrariness?)</i> | |
| Hosted by Daniel Casasanto. | |
| CNR, Pisa, Italy | October 2017 |
| <i>Title: Reading as Statistical Learning (in spite of language arbitrariness?)</i> | |
| Invited by Vito Pirrelli. | |
| Center for Mind/Brain Sciences (CIMeC), Trento, Italy | May 2017 |
| <i>Title: The Reading Brain as a Statistical Learning Machine</i> | |
| Invited by Raffaella Bernardi. | |
| Scuola Normale Superiore, Pisa, Italy | Apr 2016 |
| <i>Title: Word Identification as Revealed by Eye Tracking</i> | |
| Invited by Piermarco Bertinetto. | |
| Université Libre de Bruxelles, Belgium | Jan 2015 |
| <i>Title: Word Identification in the Visual and Auditory Domains</i> | |
| Invited by Fabienne Chetail and Alain Content. | |
| University of Chicago, US | Nov 2014 |
| <i>Title: Word Structure and Word Identification</i> | |
| Hosted by Daniel Casasanto. | |
| Università di Milano Bicocca, Italy | Jan 2014 |
| <i>Title: On Word Frequencies in General and Subtitle-Based Frequencies for Italian</i> | |
| Contributed. A joint effort with Emmanuel Keuleers (University of Gent, Belgium). | |
| Université de Montreal, Canada | Nov 2013 |
| <i>Title: Nouns and verbs in the Brain: Task Effects and Neural Substrate</i> | |
| Hosted by Phaedra Royle. | |
| McGill University, Canada | Nov 2013 |
| <i>Title: A Tale of Two Morphologies: A Lemma Model of Complex Word Identification</i> | |
| Hosted by Karsten Steinhauer and Kristina Kasparian. | |

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| Universiteit Gent, Belgium <i>Title: Get it in a Bit! Early Steps in the Visual Identification of Complex Words</i> Hosted by Emmanuel Keuleers and Marc Brysbaert. | Oct 2012 |
| Università di Milano Bicocca, Italy <i>Title: Meaningless Morphemes and the Importance to Stay in the Right Place</i> Contributed. | Jul 2009 |
| Royal Holloway University of London, UK <i>Title: Morpheme Identity and Morpheme Position</i> Hosted by Courtenay Norbury. | Mar 2009 |
| Royal Holloway University of London, UK <i>Title: Nouns and Verbs in the Lexicon</i> Hosted by Kathy Rastle. | May 2008 |
| CNR, Rome, Italy <i>Title: Semantic and Morphological Priming between Nouns and Verbs</i> Hosted by Saskia Arduino. | May 2007 |
| MACCS, Macquarie University, Australia <i>Title: Modeling the Recognition of Morphologically Complex Written Words</i> Hosted by Max Coltheart and Lyndsey Nickels. | May 2006 |

Invited Talks at International Congresses.....

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| Rank Symposium on Visual Processing of Faces and Words <i>The Lake District, UK</i> Title: Are words anything special? Statistical learning, efficient information take-up and written words | October 2023 |
| Interdisciplinary Advances in Statistical Learning <i>San Sebastian, Spain</i> Title: Statistical Learning and Learning to Read | June 2022 |
| Annual Meeting of the Experimental Psychology Society, UK <i>Keele, UK</i> Title: The Connection Between Statistical Learning and Reading: How Far Does It Go? | March 2022 |
| The Science of Aphasia <i>Venezia, Italy</i> Title: The Reading Brain as a Statistical Learning Machine | Sept 2016 |
| European Workshop on Cognitive Neuropsychology <i>Bressanone, Italy</i> Title: The Lemma in the Reading System | Jan 2013 |

The above are keynote and individual, extended talks. In addition to those, I've been invited to give talks in symposia at the Meeting of the European Society for Cognitive Psychology (ESCoP, in 2015, in Paphos, Cyprus and in 2022, in Lille, France), the European Meeting of the Psychonomic Society (in 2016, Granada) and again at the Meeting of the Experimental Psychology Society of the UK (in 2021, on-line).

Contributed Talks/Posters at International Congresses.....

Since 2004, I've presented ~230 talks/posters at international congresses as either **presenting** or **senior author**. Representative congresses of my dissemination activity are the *European Workshop on Cognitive Neuropsychology*, the *Morphological processing conference (MoProc)*, the annual meeting of the *Psychonomic Society*, the *Architecture and Mechanisms for Language Processing (AMLaP)*, the *Science of Aphasia*, *Evolang*, and the annual meeting of the *Academy of Aphasia*.

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.

Organization of scientific events.....

AIP Sperimentale **September 2023 and 2024**

Lucca and Messina, Italy

This is the regular meeting of the Experimental Branch of the Italian Association for Psychology, (AIP) with ~ 450 attendants. I was in charge as the Secretary of the society.

ESCoP **September 2023**

Porto, Portugal

This is the regular meeting of the European Society for Cognitive Psychology, with ~ 1000 attendants. I was involved as a member of the ESCoP Executive Committee.

Trieste Encounters in Cognitive Science (TEX) **July 2022**

SISSA, Trieste, Italy

A one-week symposium, with ~ 100 attendants and 8 invited speakers. This is essentially the in-presence version of TEX2021. Co-organized with Yamil Vidal.

Trieste Encounters in Cognitive Science (TEX) **July 2021**

SISSA, Trieste, Italy

A two-day symposium held on-line, with ~ 250 attendants and 8 invited speakers. The title of the symposium was "Bringing together statistical learning and predictive processes". Co-organized with Yamil Vidal.

Giornata di Linguistica Sperimentale e Computazionale **February 2019**

University of Trento, Italy

This was the consolidation of the 2018 event (see next entry), which we initially conceived as a one-off, but then decided to continue based on the audience's interest. We had ~80 attendants. Co-organized with Francesca Franzon, Chiara Zanini, Francesco Vespignani, Aurelie Herbelot and Gildo Bidese.

Giornata di Linguistica Sperimentale e Computazionale **February 2018**

University of Padova, Italy

This was a one-off event where we tried to gather the Italian research community working on language with an experimental approach. We had ~50 attendants. The event generated the birth of a cross-discipline informal society, which is now gathering roughly every other year. Co-organized with Francesca Franzon, Chiara Zanini and Francesca Peressotti.

International Morphological Processing conference (MoProc) **June 2017**

SISSA, Trieste, Italy

This was the 10th edition of an established international conference in the field of linguistic morphology, which typically attracts ~100 attendants. Co-organized with Simona Amenta and Marco Marelli.

Trieste Encounters in Cognitive Science (TEX) **July 2016**

SISSA, Trieste, Italy

This was the first edition of a new initiative, to be then held yearly at SISSA. It was a summer school with 30 students and around 15 invited teachers, plus a research symposium with ~50 attendants. Co-organized with Ale Treves.

- MiLanguage** **May 2015**
University of Milano–Bicocca, Italy
 This was a one–off, three–day research symposium with ~100 attendants. Co–organized with Francesca Foppolo, Teresa Guasti e Claudio Luzzatti.
- What’s special about space?** **June 2014**
University of Milano–Bicocca, Italy
 This was a one–off, one–day research symposium with ~40 attendants. Co–organized with Roberto Bottini, Luisa Girelli e Luca Rinaldi.
- Dissemination to the lay audience.....**
- Sfide, la scuola di tutti** **March 2024**
Fa’ la cosa giusta, Milano
 I gave a talk on the cognition of reading and its implications for the classroom.
- Presidi del Libro** **March 2024**
Bari
 I gave a talk on the cognitive science of reading and my book *Neuropsicologia della lettura*.
- Fondazione Feltrinelli** **June 2023**
Milano
 I gave a talk on the cognitive science of reading and its implications for the publishing industry.
- Intesa Sanpaolo Innovation Center** **April 2023**
Lucca
 I gave a talk on the cognitive science of reading and my book *Neuropsicologia della lettura*.
- Newton, RAI** **November 2022**
National TV
 I was interviewed on the cognition of reading by Davide Coero Borga.
- Bright Night (La notte dei ricercatori)** **September 2022**
Lucca, Italy
 I was invited to present my book *Neuropsicologia della lettura*.
- Elisir, RAI** **May 2022**
National TV
 I was interviewed on the cognition of reading by Michele Mirabella and Benedetta Rinaldi.
- Plot Machine, Rai Radio 1** **April 2022**
National radio
 I was interviewed on the cognition of reading by Vito Cioce and Daniele Mecenate.
- Radio 24** **December 2021**
National radio
 I was interviewed on reading acquisition by Anita Panizza.
- Innovation coffee** **November 2021**
Intesa Sanpaolo Innovation Center
- Super Quark, RAI** **July 2021**
Italian state TV
 A video on my research on reading and visual word identification, authored by Rossella Li Vigni.
- La Stampa** **Jan 2021**
Newspaper distributed nationally, Italy
 I was interviewed by Simona Regina on my book [Neuropsicologia della lettura](#).

- Il Venerdì di Repubblica** Dec 2020
Newspaper distributed nationally, Italy
 I was interviewed by Giulia Villoresi on my book [Neuropsicologia della lettura](#).
- La Repubblica** Oct 2018
Newspaper distributed nationally, Italy
 I was interviewed by Tina Simoniello on our [Brains at Work](#) program.
- Memex Galileo, RAI** Oct 2018
Italian state TV
 I was interviewed on my research on reading and statistical learning, and on my work on word meaning and blindness.
- Festivaletteratura** April 2018
Mantova, Italy
 This was a training event for professionals interested in reading organized by [Festivaletteratura](#). [Here's the website](#).
- Beyond Reading** September 2017
University of Venezia, Italy
 This was a two-day event for professionals interested in reading on the Neurobiology and rehabilitation of Dyslexia.
- Salone Internazionale del Libro** May 2017
Torino, Italy
 A yearly event organized by the *Fondazione per il Libro, la Musica e la Cultura* since 2008, attracting ~130K visitors/year. [Here's the website](#). I was invited to participate in a round table on reading on paper vs. digital support.
- Radar, Radio Rai** Mar 2017
Regional state radio, Friuli Venezia Giulia
 An interview with Sofia Rossi and Daniela Picoi on my research on statistical learning and reading.
- L'Espresso** Feb 2017
Weekly newspaper distributed nationally, Italy
 A journal article ("Se la mano tocca, il cervello risponde", *If the hand touches, the brain fires*) by Francesca Sironi featuring an interview with me on reading on paper vs. digital support.
- Internet Day Friuli Venezia Giulia** Apr 2016
Trieste, Italy
 A one-day event organized by the Regional Government to promote digital literacy. [Here's the website](#). I was invited to give a talk on reading on paper vs. on digital support.

Teaching

Intramural.....

At SISSA, I taught yearly one module of *Cognitive Neuroscience of Language* and one module of *Data Analysis/Coding*. The former typically covered themes close to my research activity (linguistic morphology, word meaning, statistical learning in reading), while the latter focused on data analysis and/or experiment delivery and data gathering, using [R](#) and/or [Python](#). These courses were primarily offered to first-year PhD students in Cognitive Neuroscience at SISSA, but were often attended by extra people in the Department, Master students in Physics of Complex Systems (with Politecnico, Turin and École Polytechnique, Paris) and students from partner bodies (e.g., University of Trieste), making up a pool of typically 20–25 people.

As invited, external teacher.....

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| The reading brain | 2021 |
| <i>Master program in Educational Psychology, University of Trieste, Italy</i> | |
| 2 hours taught to ~50 students. | |
| Language-agnostic mechanisms for language learning | 2021 |
| <i>Master program in Brain and Cognitive Sciences, University of Amsterdam, The Netherlands</i> | |
| 2 hours taught to ~15 students. | |
| A Lemma Model of Visual Word Identification | 2021 |
| <i>PhD program in Linguistics and Experimental Psychology, University of Massachusetts at Amherst, US</i> | |
| 2 hours taught to ~10 students. | |
| Meaning in the Brain | 2020 |
| <i>Master program in Neuroscience, University of Pavia, Italy</i> | |
| 2 hours taught to ~80 students. | |
| The Cognitive Neuroscience of Reading and Dyslexia | 2019 |
| <i>Postgraduate program in Education, University of Perugia, Italy</i> | |
| 2 hours taught to ~300 students. | |
| Open Science in Psychology and Cognitive Neuroscience | 2018 |
| <i>PhD School in Social Sciences, University of Genova, Italy</i> | |
| 8 hours taught to ~10 students. | |
| The meaning mind: How the brain digs out sense from the wor(1)d | 2016 |
| <i>Scuola Galileiana, University of Padova, Italy</i> | |
| 8 hours taught to ~12 students. | |
| Linguistic impairments in brain damaged individuals | 2013 |
| <i>School of Neurology, University of Milano Bicocca, Italy</i> | |
| 2 hours taught to ~15 students. | |
| Mixed-effects modeling | 2013 |
| <i>PhD School in Neuroscience, University of Modena and Reggio Emilia, Italy</i> | |
| 25 hours taught to ~10 students. | |
| Mixed-effects modeling | 2012 |
| <i>Rehabilitation Service, Gallarate Hospital, Italy</i> | |
| Tutorials. 12 hours taught to 5 speech therapists. | |
| Computational models of reading | 2009–2011 |
| <i>Faculty of Psychology, University of Milano Bicocca, Italy</i> | |
| 15 hours taught to ~20 students. | |
| Psychometrics | 2006–2011 |
| <i>Faculty of Psychology, University of Milano Bicocca, Italy</i> | |
| Tutorials. 16 hours taught to ~100 students. | |
| Multivariate data analysis | 2006–2010 |
| <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 | 2007–2009 |
| <i>European Master in Clinical Neurolinguistics, University of Milano Bicocca, Italy</i> | |

Taught in English. 4 hours taught to ~10 students.

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

Academic Service and Management

Member of the Steering Committee and Secretary since 2023
Associazione Italiana di Psicologia (AIP), sezione Sperimentale

Internal member of the Evaluation Committee (Nucleo di Valutazione) since 2022
SISSA, Trieste, Italy

Ombudsperson since 2022
SISSA, Trieste, Italy

Founder, Member of the Steering Committee and President Elect since 2022
Italian Reproducibility Network (ITRN)

Member of the Executive Committee since 2020
European Society for Cognitive Psychology (ESCoP)

Member of the Academic Senate 2018-2022
SISSA, Trieste, Italy

PhD Coordinator 2015–2020
Cognitive Neuroscience, SISSA, Trieste, Italy

President Nov 2015–Oct 2016
Ethics Committee, SISSA, Trieste, Italy

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 Experimental Psychology Society, UK since 2020
Full Member

The Society for the Neurobiology of Language since 2017
Full Member

The European Society for Cognitive Psychology (ESCoP) since 2015
Full Member

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| Italian Psychological Association (AIP), Experimental Psychology branch <i>Member</i> | since 2015 |
| The Academy of Aphasia, US <i>Regular Member</i> | since 2013 |
| The Psychonomic Society, US <i>Fellow</i> | since 2012 |
| Lombardy Professional Psychologist Board, Italy <i>Member</i> | since 2007 |

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