Gabriella Vigliocco

Current Appointment Department: Present appointment: Date of appointment:		Experimental Psychology Professor of the Psychology of Language October 1 st , 2005 <u>FTE:</u> 1.00	
1990	95 PhD, Experimental Psychology		University of Trieste, Italy University of Padua, Italy
Professional H 2018 -	Director	, Leverhulme Doctoral Training nme for the Ecological Study of า	UCL
2014 - 18	ViceDea Science	n Education, Faculty of Brain s	UCL
2010 – 11		lead of Division Psychology guage Sciences	UCL
2008 - 10	Brain Sc	Cognitive, Perceptual and eiences (CPB, now ental Psychology) Research eent	UCL
2006 - 16		ctor, Deafness, Cognition and ge (DCAL) Research Centre	UCL
2000 -	Lecturer	, Reader, Professor	Department of Psychology, UCL
1999	Visiting	Scientist	Max Plank Institute for Psycholinguistics, NL
1996 - 00	Assistar	t Professor	Department of Psychology, University of Wisconsin-Madison, USA
1994 – 96	Fulbrigh Associat	t Research Fellow; Research te	Cognitive Science Program, University of Arizona, USA
1991 - 92	Neurops	sychology Intern	Ospedale Civile di Vicenza, Italy

Other Appointments and Affiliations

2018 – 23 Royal Society Wolfson Research Merit Fellow

2016 - Scientist in Residence, Moss Rehabilitation Research Institute (MRRI), Philadelphia

- 2014 15 Member of Promotion Committee, School of Life and Medical Sciences, UCL
- 2013 18 Member Faculty Executive Team, Faculty of Brain Sciences, UCL
- 2011 13 Leverhulme Professorship

Commissions of Trust

- 2021 Member of Advisory Board for Istituto Universitario di Studi Superiori (IUSS), Pavia
- 2021 ERC Panel
- 2019 DFG Panel Member Research Unit Competition (Modal and Amodal Cognition), Research Priority Program (ViCom)
- 2019, 2022 ESRC Open Research Area Panel Member
- 2015 19 Member, Association for Psychological Sciences (APS) Internationalization Committee
- 2014 17 Member of Grant Assessment Panel, Economic and Social Research Council (ESRC)
- 2014 Guest editor: Theme Issue of the Philosophical Transaction of the Royal Society B: Language as a multimodal phenomenon: Implications for language development, processing and evolution
- 2014 Member of Centre and Large Grant Assessment Panel, ESRC
- 2009 Associate Editor, *Frontiers in Language Sciences* (declined editorship European Journal of Cognitive Psychology)
- 2006 Editorial Board: Psychological Science (2007-2014), Journal of Experimental Psychology: Learning, Memory and Cognition (2006 – 2011); Psychological Review (2004 – 2010); European Journal of Cognitive Psychology (2008 – present)
- 2000 Grant Reviewing for: BA, BBSRC, ESRC, MRC, Royal Society, Wellcome Trust, Israeli National Science Foundation; National Science Foundation (USA); Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO, NL).
- 1996 Regular Journal Reviewing (selected): Brain; Cerebral Cortex; Cognitive Neuropsychology; Cognitive Psychology; Cognition; Current Biology; Journal of Child Language; Journal of Experimental Psychology (General; Learning, Memory & Cognition); Journal of Memory and Language; Journal of Neuroscience; Human Brain Mapping; Language; Linguistics; Memory and Cognition; Neuropsychologia; Perception and Psychophysics; Proceedings of the Royal Society B; Psychological Bulletin; Psychological Review; Trends in Cognitive Science.

Membership of Scientific Societies

Member of Experimental Psychology Society (2004 - present), Psychonomic Society (1996 - present), Cognitive Science Society (2000 - present), Neurobiology of Language (2016 – present)

Prizes, Awards and other Honours:

2021	Elected Fellow of the Cognitive Science Society	Cognitive Science Society
2019	Elected Fellow of the Association for Psychological Sciences	Association for Psychological Sciences
2018 – 23	Royal Society Wolfson Research Merit Award	Royal Society
2011 – 13	Leverhulme Research Professorship	Leverhulme Trust
2013 - 15	Visiting Professor, Max Planck Institute for Psycholinguistics, Nijmegen, NL	Max Planck Society

2005	Fellowship (two years, comprising my salary and funds for research), declined	Ministero Universita' e Ricerca Scientifica, Italy
1999	Fellowship (one year research leave)	Max Planck Society
1996	Human Mobility Fellowship, declined	EU
1994	Scholarship	Fulbright

Grants: Active Grants

- 2022 2024 Nordic Foundation: *Financial literacy: how children learn abstract financial terms*. Gabriella Vigliocco (PI) £28,930
- 2018 2025 Leverhulme Doctoral Scholarships: <u>Leverhulme Doctoral Training Programme for</u> <u>the Ecological Study of the Brain (ECOLOGICAL BRAIN DTP)</u>. Gabriella Vigliocco (PI). £1,050,000. This cross-disciplinary 4-year DTP involves UCL PIs from Psychology, Engineering, Computer Science, Geography, Institute of Education and Architecture. It will train the next generation of scientists in the study of the brain and behaviour in realworld contexts (see: http://ecologicalbrain.org/).
- 2018 2024 ERC Advanced Grant. <u>Ecological Language: A multimodal approach to language</u> <u>processing in the brain (ECOLANG)</u>. Gabriella Vigliocco (PI). €2,250,000. This research programme represents the first attempt to understand the cognitive and neural basis of real-world language learning and processing.

Previous Grants

- 2017 2020 **ESRC Research Grant**. <u>*The role of iconicity in word learning*</u>. Gabriella Vigliocco (PI), Pamela Perniss (Co-I, U. Brighton), Elizabeth Wonnacott (co-I, PALS, UCL), Chloe Marshall (Co-I, Institute of Education, UCL), Susan Goldin-Meadow (Co-I, U. Chicago). £654,568. The project investigates whether and how caregivers support vocabulary learning in young children. It is novel as it focuses on the ensemble of multimodal cues (speech, eyegaze, gestures and prosody). It combines naturalistic and experimental studies and will disseminate findings outside academic audiences especially to early-years educations.
- 2015 2017 European Commission Marie Slodowska-Curie. (2015 –2017). From new Objects to new woRds through GEstures: how sensory-motor experiences of objects and tools influence word acquisition in children (FORGE). Recipient: Dr. Laura Sparaci, Gabriella Vigliocco: scientist in charge. This project investigated the relationship between object manipulation, gestures and learning objects names.
- 2012 2015 Nuffield Foundation. <u>The role of Affect in Learning Abstract Concepts</u>. Gabriella Vigliocco (PI), Courtenay Norbury (co-PI). £124,600. This project was the first investigation of how children (6-12 years old) learn abstract words and concepts. We have shown that children up to 8 years of age learn better abstract words that have emotional connotations (e.g., *promotion*). As these findings have potential implications for primary education, I have disseminated the findings at teachers' conferences both in the UK as well as in Europe.
- 2006 2016 ESRC Centre Grant. <u>Deafness, Cognition and Language (DCAL) Research Centre</u>. (2006–2015). Bencie Woll (director), Ruth Campbell; Mairead MacSweeney; Gary Morgan; Gabriella Vigliocco (co-directors) £3,123,067 (2006 - 2010); £5,400,000 (2011 -2015). DCAL's mission has been to study questions about language – its origins,

development and processing, using the communication of d/Deaf people as a model. Through its research and ancillary activities, the Centre further aimed to change perceptions of deafness and adjust hearing perspectives on deafness research. I led the "Language and Cognition Strand", focusing on similarities and differences in processing sign and spoken languages, and developing new paradigms for the study of sign language. In addition to 15 publications, I have been active through the years in disseminating research findings to the d/Deaf community. I am especially proud of: the instrumental role I played during my tenure in raising the stature of our sign language and deafness research to mainstream international journals and conferences; to have supervised 2 out of the only three deaf PhD students in the centre. The centre is now continuing its activities focusing more on Deafness.

- 2010 2013 ESRC Research Grant. <u>The role of sensori-motor and affective information in</u> <u>semantic representation.</u> £733,000 (final report received highest score). The project addressed the question of how words get their meanings. A view developed within cognitive science and neuroscience that has gained support and popularity recently is that processing words evokes our perceptual and motoric experience with the corresponding object or action. Here, we provided a more rigorous test of this hypothesis, crucially, both in a signed language (British Sign Language, BSL) and in English. But the most central, and novel contribution concerns how we represent abstract words (e.g., *imagine, inspire*). Our work indicates that while perception and action are critical for processing concrete words, emotion is critical for abstract words.
- 2006 2009 European Commission NEST PATHFINDER Program (Framework 6). <u>The origin</u>, <u>representation and use of abstract concepts (ABSTRACT)</u>. Stefano Cappa (Admin. Coordinator; San Raffaele, Milan), Manuel Carreiras (Partner, Univ. of La Laguna, Tenerife); Maria Luisa Lorusso (Partner, Institute Nostra Famiglia, Milan), Csaba Pleh (Partner, Budapest Univ.), Gabriella Vigliocco (Scientific Coordinator). €1,430,000. This project provided a systematic and cross-linguistic investigation of how abstract words are represented in the brain. I wrote the proposal and led the international interdisciplinary team (Linguistics, Computational Modelling, Psychology and Neuroscience). My most novel research during the award consisted in the development and testing of cognitively and neurally plausible probabilistic computational models of semantic representation.
- 2003 2006 BBSRC Research Grant. <u>Nouns and Verbs in the Brain.</u> Gabriella Vigliocco (PI). £215,201. The project provided a rigorous test of the hypothesis that syntax, considered to be a core property of human language, may drive neural organisation of language networks. This hypothesis was assessed using behavioural and imaging methods and across different languages. Our work clearly showed that semantics, the type of entities and events words were associated) determined their neural representation, but crucially not their syntactic properties.
- 2003 2006 **ESRC Research Grant**. <u>Language specific effects on Cognition</u>. Gabriella Vigliocco (PI). £214,528. I tested cross-linguistically the idea that the language you speak can affect the the way you think using behavioural methods. Our results showed that, although indeed there are some cases in which this is true, these effects are remarkably limited.
- 2000 2004 Human Frontier Science Program, Program Grant. <u>Cross-linguistic investigation</u> of the representation and neural substrate of word meaning and syntax Gabriella Vigliocco (PI); Stefano Cappa (co-PI, San Raffaele, Milan), Peter Indefrey (co-PI, Max Planck Institute), Merrill Garrett (co-PI, University of Arizona), Monserrat Sanz (co-PI, Kobe City University) and Patrizia Tabossi (co-PI, University of Trieste). \$720,000. This was my first program grant and my first experience in leading an international, interdisciplinary team. The project was the first attempt to develop cognitively and neural valid quantitative measures of semantic similarity among words, tested in behavioural

and imaging experiments.

- 2003 J. S. McDonnell 21st Century Pilot Award. <u>Semantic similarity in brain and behaviour</u>. Gabriella Vigliocco (PI) \$30,000. This award gave me the opportunity to obtain pilot data for the BBSRC project listed above.
- 1998 2000 National Science Foundation (USA) research grant. Syntactic and semantic forces in subject-verb agreement. Gabriella Vigliocco (PI). \$ 182,800. This award allowed me to follow-up from studies in my dissertation.

Other

UCL Global Engagement Programme: UCL – MRRI workshop: "New directions in language and action research: Implications for theory and treatment", £2,000. UCL, March, 2018.

Experimental Psychology Society Workshop Awards (2010, 2012, 2015). £3,500 each. ESF Exploratory Workshop: "multilingualism from an interdisciplinary perspective" (approx £9,600), Novartis Foundation, London, October, 2007..

Travel awards from: University of Wisconsin, University College London and British Council (1997 to present).

Invited talks:

Invited talk	5.
2023	Language, Space and Large Language Models. Bressanone symposium on Language and Perception, January.
	Situating semantic processing and learning in the real-world. Invited speaker, CAOS Workshop, Rovereto, May.
	<i>Situating semantic processing in the real-world</i> . Invited Concepts in the Mind symposium, European Philosophy and Psychology Society Meeting, Prague, August.
2022	Multimodal language production and comprehension. SFARI-MIT workshop on language and social interaction. NY, December.
	<i>Multimodal language and aphasia.</i> Keynote, German Aphasia Association, Biedefeld, November.
	Out of sight, out of mind: abstraction and language processing in displaced contexts. Workshop on Processing abstract concepts in humans and machine, August, Manchester.
2021	Ecological Language: A multimodal approach to language processing and Development. Abralin ao Vivo Series, October
	Ecological Language: A multimodal approach to language processing and Development. Keynote, ESLP Conference, September
	Learning abstract concepts: the interplay of experiential and linguistic information. Workshop on grounded and symbolic representation (online), March.
	Creating a Multimodal Corpus of Dyadic Communication: The ECOLANG experience. EMLALR (online, with Gwen Brekelman), April.
2020	Ecological Language: A multimodal approach to language comprehension. MPI workshop, October.
	Ecological Language: A multimodal approach to language comprehension Plenary lecture, UK Cognitive Linguistic Conference, July.
	Ecological Language: A multimodal approach to language comprehension. Colloquium, Moss Rehabilitation Research Institute, April.
2019	Ecological Language: A multimodal approach to language comprehension. Plenary Lecture. CoNLL19: Computational Natural Language Learning

	Conference, Hong Kong, November.
	<i>Ecological Language: A multimodal approach to language comprehension.</i> Colloquium, Hong Kong University; Chinese University, Hong Kong, October.
	Ecological Language: A multimodal approach to language comprehension. Plenary Lecture. European Society for Cognitive Psychology (ESCOP), Tenerife, September.
	<i>Learning and using abstract concepts.</i> Plenary Lecture. AIC19: International Workshop on Artificial Intelligence and Cognition, Manchester, September.
	Ecological Language: A multimodal approach to language comprehension. Plenary Lecture. Psycholinguistics Symposium, Tarragona, April.
2018	<i>Ecological Language: a new approach to the study of language.</i> Plenary Lecture, Embodied and Situated Language Processing Conference, Lancaster, August.
	<i>Iconicity in Language Development and Evolution.</i> Plenary Lecture, 4 th St Petersburg Winter Workshop on Experimental Studies of Speech and Language. St Petersburg, February.
2017	Learning concrete and abstract semantics: Insights from developmental and simulated language disorders. Invited Symposium: "Symbolic or Embodied? Abstract meaning in mind and Brain". ESCOP2017, Berlin, September.
	<i>Modelling Semantic Memory: Key Psychological Issues.</i> Keynote lecture, 16 th Psycholinguistics in Flanders, Leuven, <i>May.</i>
	Website, social media and personal development: Think first! Women in Cognitive Science Symposium, ICPS17, Vienna, March.
	<i>Objects and Events in the Brain.</i> EPS Events in Memory and Language Workshop, York, January.
2016	Learning and Processing Abstract Concepts. Keynote speaker, International Symposium on Abstract Concepts, Amsterdam, November.
2015	<i>Multimodality and Iconicity in language evolution, development and processing.</i> Keynote lecture, Cognitive Linguistics Society, July.
	Language as a multimodal phenomenon: Implications for processing and development. Jurnee Scientifique, ISCT, Toulouse, France, February
	The bridge of iconicity: from a world of experience to experience of language. Language and Perception Workshop, Norwich, February
	Language in Context: an ecological turn to embodied language (organizer and speaker). Workshop sponsored by Experimental Psychology Society, UCL, January.
2014	Invited member, Ernst Strüngmann Forum Where is the action? The pragmatic turn in cognitive science, Frankfurt
	British Academy Workshop New Methods in Language Research, Edinburgh, September
	Keynote, German Linguistic Society, Marburg, March
	EMCAT Workshop, Marburg, March
2013	Semantic Representation Max Plank Institute for Psycholinguistics, Nijmegen, April
	Semantic Representation Plenary Lecture. Embodied and Situated Language Processing Conference, Potsdam, July
	Trocessing Conference, Totsuani, Suly

	Processing Workshop, Cambridge, September.
2012	Iconicity in language learning and language processing. Workshop on Multimodality in language learning. Nijmegen, June.
	What if the study of language started from signed rather than spoken languages? Sylvius Lecture, Leiden, June.
	Integrating embodied and linguistic information in semantic representation. Is the semantic system embodied? Symposium at the British Neuropsychological Society Conference, London, March.
	What if the study of language started from signed rather than spoken languages? (organiser and speaker). Workshop sponsored by Experimental Psychology Society, UCL, January.
2011	Representing Abstract Concepts. New Directions in Embodiment Research. Symposium sponsored by APA and EU, September, San Sebastian.
	Abstract Concepts in the Mind. Converging Approaches to Semantic Memory. Symposium, International Conference on Memory, York, July.
2010	<i>Toward a Theory of Meaning Representation</i> . Keynote Lecture, Joint meeting of CSDL and ESLP. La Jolla, September.
	<i>Toward a Theory of Meaning Representation</i> . Keynote Lecture, UK Cognitive Linguistic Association. University of Hertfordshire, July.
	<i>Word and Concepts in the Brain</i> . Interdisciplinary Workshop. Granada, Spain, September.
	<i>The Representation of Abstract Concepts</i> (organizer and speaker). Workshop sponsored by Experimental Psychology Society, UCL, January.
2009	Modelling Semantic Representation. Distributional Semantics beyond Concrete Concepts Workshop, Amsterdam, July.
	<i>Learning Semantics with Hidden Markov Topic Models</i> . Mark Andrews, Gabriella Vigliocco. Invited talk, recipient of annual award of the Cognitive Science Society for best paper in Computational modelling, July, 2009.
2008	Representing Abstract Words, Invited symposium (co-chaired with M.Carreiras), International Congress of Psychology, Berlin, July.
	<i>Linguistic categories in the brain.</i> Symposium: Categories in the brain International Neuropsychology Society Meeting, Tenerife, June. This is a very prestigious meeting of a small international and interdisciplinary group of neuroscientists and physiologists. Non-members can only contributed on invitation.
	<i>Linguistic Categories in the Brain</i> , Keynote Lecture, Psycholinguistics in Flanders, Ghent, June.
2007	<i>Multilingualisms from an Interdisciplinary Perspective</i> , (organizer). ESF Workshop London, October.
	<i>Toward a theory of meaning representation in language use</i> . Keynote lecture, Spanish Psycholinguistic Symposium, Palma de Malliorca, April.
	Language and Imagery: an investigation of iconicity in sign language. Invited symposium on sign language, CUNY Human Sentence Processing Conference, San Diego, USA, March.
1996 - onward	I have given research seminars (colloquia) at more than 60 different institutions i the UK and oversea (in departments of Linguistics, Computer Science, Neurology, in addition to departments of Psychology), and at a variety of seminar series for academics and non academics. Within the UK, recent research seminars were given at: Edinburgh, Stirling,

Essex, Sussex, Durham, Birkbeck, MRC Cognition and Brain Unit
(Cambridge), York, Bristol. In Europe, I have given seminars at: Department
of Psychology, University of Bsrcelona; Max Planck Institute for
Psycholinguistics (Nijmegen, NL); Max Planck Institute for Cognitive
Neuroscience (Leipzig, Germany); Department of Computational Linguistics
(Saarland, Germany); University of Louvain (Belgium); University of Leiden
(NL); Universities of Milan, Trieste, and Genoa (Italy), University of Geneva
(Switzerland). In the US, I have given seminars at: Iowa University,
University of California – S. Diego; University of Wisconsin; Rice University;
Johns Hopkins; University of Illinois; Lehigh University; Emory University.

Academic supervision and mentoring:

Throughout my career, I have supervised for an extensive period of time, more than 40 early career researchers in my laboratory and I have mentored many others in my role as Head of Department and senior academic. I am proud to say that all the post-docs and PhD students whom I have supervised have moved to more advanced posts both in academia and industry. Initial destinations of some of my PhD students and post-docs include: <u>Yan Gu</u> (post-doc 2018-2021): Lectureship, Essex University; <u>David Sidhu</u> (research fellow 2020-2022): Assistant Professorship, Carleton University, Canada; Anna Krason (PhD Student 2018-2022): Post-doc at Moss Rehabilitation Research Institute, Philadelphia; <u>Margherita Murgiano</u> (post-doc 2017-2019): Professional Interpreter, Linguaggio Italiano dei Segni; <u>Yasamin Motamedi</u> (post-doc 2017-2020): Behavioural Insight Team; Armand Rotaru (PhD Student, 2016-2020): Arthur D Little Consultancy; <u>Laura Speed</u> (PhD student 2010-2014): post-doc Radbound University Nijmegen; Stavroula Kousta (post-doc: 2007-2011): Editor, Trends in Cognitive Science (now Editor of Nature Human Behavour); <u>Pamela Perniss</u> (Marie Curie Fellow and post-doc 2009-2014): Professor, University of Cologne; <u>Marta Ponari</u>, Lecturer, Kent University (post-doc: 2011-2014); <u>David Vinson</u>, ESRC Fellowship, Lecturer UCL (lab manager: 1996-2005; PhD student: 2006-2008; post-doc: 2009-2012).

Research

I direct the Language and Cognition Laboratory (http://www.language-cognition-lab.org/). Throughout the years, I contributed and led a shift in the fields of Psychology, Neuroscience and Linguistics from studying language as a symbolic capacity, evolved, learnt and use separately from the rest of human cognition, to one in which language is grounded in basic sensorimotor functions and that needs to be studied in its ecological niche.

I use methods from psychology, neuroscience and computational modelling and I seek converging evidence from different languages and populations: adults, children, deaf individuals using sign language, and people with aphasia.

I have published more than 160 papers (h-index: 60, WoS). My initial work provided cross-linguistic evidence that language production is dependent on imagistic cognition, contra to the prevalent modularist view at the time (e.g., Vigliocco & Hartsuiker, 2002). I showed that language processing engages the same systems used in vision (e.g., Meteyard et al., 2007). My group provided the first evidence that abstract words and concepts (e.g., *idea*) are rooted in the neural system processing emotions (e.g., Kousta et al., 2011; Vigliocco et al., 2014), rather than resulting from high-level symbolic operations. This link to the emotional system is especially important during development (Ponari et al., 2017, 2020).

Since 2006 I initiated a programme challenging the central tenet according to which linguistic form is only arbitrarily linked to meaning, using sign language as a model. We have provided first evidence that *iconicity* (more direct links between form and meaning) facilitates language processing and development, contrary to the dominant view that it is an accident of modality (in signed languages) or irrelevant (in spoken languages) (e.g., Perniss et al., 2017; Thompson et al., 2012). We have developed theoretical perspectives on language evolution, development and processing in which iconicity and arbitrariness are key adaptations (e.g., Perniss et al., 2010; Perniss & Vigliocco, 2014).

I have developed computational models of the representation of word meaning across domains of knowledge (objects, actions and abstractions). We were first to develop cognitively plausible models that combine information from sensory-motor experience with information extracted from language to represent meaning (e.g., Vigliocco, *et al.*, 2004; Andrews et al., 2009; and more recently language, vision and emotion, Rotaru & Vigliocco, 2020). Having explicit models allowed me to tackle some long-standing and controversial issues: (i) *linguistic relativity* (does the language one speaks affect the way one thinks?). We found surprisingly limited domains in which effects of linguistic relativity are observed (e.g., Vigliocco et al., 2005; Kousta, 2008). (ii) The representation of *grammatical categories* in the brain (are nouns and verbs represented in separable neural systems?). Our behavioural, patient and imaging evidence supports semantic, rather than syntactic, neural organisation (e.g., Vigliocco et al., 2011).

My current work brings these previous insights together to the study of language as <u>multimodal and</u> <u>social</u> as it has evolved, is learnt and is used in real-world face-to-face contexts (Murgiano et al., 2021). To understand what are the multimodal behaviours relevant to communication, I have collected a corpus of dyadic interaction between an adult and their children (to tap into language acquisition) and to another adult. Using data from the corpus we have shown that speakers use iconicity when talking about referents that are not physically present (Motamedi et al., preprint); identified the range of multimodal caregivers' behaviours associated with vocabulary learning by 3-4 year-old children (Donnellan et al., 2023; Shi et al., 2022); established that speakers use multimodal behaviours (such as gestures and prosodic adaptations) in a communicative efficient manner (Grzyb et al., preprint). Using computational language models to quantify surprisal (predictability) of words in speech, we further provided first EEG evidence that multimodal cues are dynamically engaged in language comprehension at the same time of linguistic processing, contra to the dominant view that instead linguistic processing does not require multimodal cues (Zhang et al., 2021; under review).

My research is international and highly interdisciplinary. I collaborate with (especially early career colleagues from many universities in the UK, Europe and America. I am scientist in residence at the Moss Rehabilitation Research Institute (Philadelphia); I have been member of many international grant review panels and I organised a major interdisciplinary international conference (*International Convention of Psychological Sciences*, 2017). I currently lead the Ecological Brain Doctoral Training

Programme at UCL. It involves a team comprising neuroscientists, psychologists, architects, engineers, computer scientists, educators and geographers sharing the vision that understanding how humans function in real-world environments, the ecological niche in which the brain evolved, is critical to explaining the richness of human experiences and to shaping the environment in which we live.

Although since 2006 II have not been travelling very much (single parenting and due to illness), I have given seminars and invited talks at international conferences (1-2 per year). I have presented to diverse audiences: cognitive scientists, philosophers, computer scientists, neurologists, cognitive neuroscientists, speech and language therapists. I also carry out outreach activities regularly targeting general public, parents (of both deaf and hearing children), professionals (especially educators, speech and language therapists) both nationally and internationally.

Publications

Preprints/Under Review

- Grzyb B, Frank SL, Vigliocco G (2023, JEP:G, under review). Communicative efficiency in multimodal language. *PsyArXiv.*
- Kewenig V, Vigliocco G, Skipper JI (2023, eLife, under review). When abstract becomes concrete: naturalistic encoding of concepts in the brain. *bioRxiv*, 2022.09. 08.506944.
- Kewenig V, Edwards C, Lacome D'Estalenx Q, Rechardt A, Skipper JI, Vigliocco G (2023). Evidence of human-like visual-linguistic integration in multimodal large language models during predictive language processing. arXiv preprint arXiv:2308.06035.
- Krason A, Varley R, Vigliocco G (2023, JEP:LMC under review). Understanding discourse in face-toface settings: The impact of multimodal cues and listening conditions.
- Motamedi Y, Murgiano M, Grzyb B, Gu Y, Kewenig V, Brieke R, ... Vigliocco G (2023, Child Development, under review). Language development beyond the here-and-now: iconicity and displacement in child-directed communication. *PsyArXiv.*
- Vigliocco G, Convertino L, De Felice S, Gregorians L, Kewenig V, ..., Spiers H (2023). Ecological Brain: Reframing the Study of Human Behaviour and Cognition. *PsyArXiv*

Published

- Zhang Y, Ding R, Frassinelli D, Tuomainen J, Klavinsis-Whitting S, Gabriella Vigliocco (accepted). The role of multimodal cues in second language comprehension. *Scientific Reports*.
- Sidhu D, Kachiatoorian, N, Vigliocco G. (in press). Effects of iconicity in recognition memory. *Cognitive Science.*
- Reggin, L, Gomez Franco, LE, Horchak OV, Labrecque, D, Lana, N, Rio, L, Vigliocco, G. (in press). Consensus paper: Situated and embodied language acquisition. *Journal of Cognition.*
- De Felice S, Hamilton AFC, Ponari M, Vigliocco G (2023). Learning from others is good, with others is better: the role of social interaction in human acquisition of new knowledge. *Philosophical Transactions of the Royal Society B 378 (1870), 20210357*
- Donnellan E, Jordan-Barros A, Theofilogiannakou N, Brekelmans G, ... Vigliocco G (2023). The impact of caregivers' multimodal behaviours on children's word learning: A corpus-based investigation. *Proceedings of the Annual Meeting of the Cognitive Science Society (45)*

- Madhyastha P, Zhang Y, Vigliocco G. (2023). Are words equally surprising in audio and audio-visual comprehension? *Proceedings of the Annual Meeting of the Cognitive Science Society (45),* arXiv preprint arXiv:2307.07277
- Krason A, Vigliocco G, Mailend ML, Stoll H, Varley R, Buxbaum LJ (2023) Benefit of visual speech information for word comprehension in post-stroke aphasia. *Cortex 165, 86-100*
- Wang Y, Donnellan E, Vigliocco G (2023). How Speech and Representational Gestures Align in Child-Directed Language: A Corpus-based Study. Proceedings of the Annual Meeting of the Cognitive Science Society 45 (45)
- Donnellan E, Özder LE, Man H, Grzyb B, Gu Y, Vigliocco G (2022). Timing relationships between representational gestures and speech: A corpus based investigation. *Proceedings of the Annual Meeting of the Cognitive Science Society* 44, 2052-2058
- Shi J, Gu Y, Vigliocco G (2022). Prosodic modulations in child-directed language and their impact on word learning. *Developmental Science*, e13357
- Sidhu DM, Vigliocco G (2022). I don't see what you're saying: The maluma/takete effect does not depend on the visual appearance of phonemes as they are articulated. *Psychonomic Bulletin & Review, 1-9*
- Conca F, Catricalà E, Canini M, Petrini A, Vigliocco G, Cappa SF, Della Rosa PA (2021). In search of different categories of abstract concepts: a fMRI adaptation study. *Scientific Reports, 11,* 22587
- De Felice S, Vigliocco G, Hamilton AFC (2021). Social interaction is a catalyst for adult human learning in online contexts. *Current biology 31 (21), 4853-4859. e3*
- Krason A, Fenton R, Varley R, Vigliocco G (2021). The role of iconic gestures and mouth movements in face-to-face communication. *Psychonomic Bulletin & Review.* https://doi.org/10.3758/s13423-021-02009-5
- Motamedi, Y., Murgiano, M., Wonnacott, E., Marshall, C. R., Perniss, P., Goldin-Meadow, S. & Vigliocco, G. (2021). Linking language to sensory experience: onomatopoeia in early word learning. Developmental Science
- Murgiano M, Motamedi Y, Vigliocco G (2021). Situating language in the real-world: the role of multimodal iconicity and indexicality. *Journal of Cognition 4 (1)*
- Murgiano M, Motamedi Y, Vigliocco G. (2021). Situating language in the real-world: authors' reply to commentaries. *Journal of Cognition 4 (1)*
- Zhang Y, Frassinelli D, Tuomainen J, Skipper JI, Vigliocco G (2021). More than words: Word predictability, prosody, gesture and mouth movements in natural language comprehension. *Proceedings of the Royal Society B 288 (1955), 20210500*
- Zhang Y, Ding R, Frassinelli D, Tuomainen J, Klavinskis-Whiting, ...Vigliocco G (2021). Electrophysiological signatures of multimodal comprehension in second language. Proceedings of the Annual Meeting of the Cognitive Science Society 43 (43)
- Vinson, D.P., Jones, M., Sidhu, D., Lau-Zhu, A., Santiago, J. & Vigliocco, G. (2021) Iconicity emerges and is maintained in spoken language. *Journal of Experimental Psychology: General.*

- Ferreira, R., Vinson, D.P., Dijkstra, T. & Vigliocco, G. (2020). Word learning in two languages: Neural overlap and representational differences. *Neuropsychologia*, *150*, 107703
- Ponari, M., Norbury, C.F. & Vigliocco, G. (2020). The role of emotion in learning novel abstract concepts. *Developmental Psychology*, 56, 1855
- Perniss, P., Vinson, D.P., & Vigliocco, G. (2020). Speech-gesture integration in spoken and sign language. *Cognitive Science*, 44, e12868
- Rotaru, A. & Vigliocco, G. (2020). Modelling semantics by integrating linguistic, visual and emotional information. *Cognitive Science, 44, e12830*
- Sidhu, D., Pexman, P. & Vigliocco, G. (2019). Effects of iconicity in lexical decision. Language and Cognition, 12,164-181
- Vigliocco G, Krason A, Stoll H, Monti A, Buxbaum LJ. (2020). Multimodal comprehension in left hemisphere stroke patients. *Cortex, 133, 309-327.*
- Vigliocco, G., Zhang Y., Del Maschio, N., Todd, R. & Tuomainen, J. (2019). The electrophysiological signatures of onomatopoeia. *Language and Cognition, 12, 15-35*
- Della Rosa P., Catricala, M., Canini, M, Vigliocco, G. & Cappa, S. (2018) The left inferior gyrus: a neural crossroads between concrete and abstract knowledge. *NeuroImage*, 175, 449-459.
- Ponari, M., Rotaru, A., Norbury, C., Lenci. A. & Vigliocco, G. (2018). Learning abstract concepts and wrods: insights from developmental language disorder. *Philosophical Transaction of the Royal Society B*, 373, 20170140.
- Vigliocco, G., Ponari, M., & Norbury, C. (2018). Learning and Processing abstract words and concepts: Insights from typical and atypical development. *Topics in Cognitive Science*, 10, 533-549.
- Rotaru, A.S., Vigliocco, G. & Frank S.L. (2018). Modelling the structure and dynamics of semantic processing. *Cognitive Science*, *42*, 2890-2917.
- Perniss, P., Lu, J.C., Morgan, G. & Vigliocco, G. (2018). Mapping language to the world: The role of iconicity in the sign language input. *Developmental Science* DOI: 10.1111/desc.12551.
- Ponari, M., Norbury, C.F. & Vigliocco, G. (2017). Acquisition of abstract concepts is influenced by emotion. *Developmental Science*. DOI: 10.1111/desc.12549.
- Vinson, D.P., Perniss, P., Fox, N. & Vigliocco, G. (2017). Comprehending sentences with the body: Action compatibility in British Sign Language? *Cognitive Science*, *41*, 1377-1404.
- Speed, L.J., van Dam, W.O., Wessel, O., Hirath, P., Vigliocco, G. & Desai, R.H. (2017). Impaired comprehension of speed verbs in Parkinson's disease. *Journal of the International Neuropsychological Society, 23,* 412-420.
- Van Dam, W.O., Speed, L.J., Lai, V.T., Vigliocco, G. & Desai, R.H. (2017). Effects of motion speed in action representations. *Brain and Language, 168*, 47-56.
- Ostarek, M. Vigliocco G. (2017). Reading "sky" and seeing a cloud: On the relevance of events for perceptual simulation. *Journal of Experimental Psychology: Learning, Memory, and Cognition* 43 (4), 579
- Family, N., Vinson, D., Vigliocco, G., Kaelen, M., Boltstrindge, M, Nutt, D.J., Carhart-Harris, R.L. (2016). Semantic activation in LSD: Evidence from picture naming. *Language, Cognition and Neuroscience*. DOI:10.1080/23273798.2016.1217030
- Meteyard, L., Cappa, S., Vigliocco, G. (2015). When semantics aids phonology: A processing advantage for iconic word forms in aphasia. *Neuropsychologia*, *76*, 264-275.
- Ponari, M., Vinson, D., Rodriguez, S. Costa, A., Vigliocco, G. (2015). Processing advantage for emotional words in bilingual speakers. *Emotion*, *15*, 644-652.
- Vinson, D.P., Thompson, R., Skinner, R., Fox, N. & Vigliocco, G. (2015). A faster path between meaning and form? Iconicity affects sign language across comprehension and production. *Journal of Memory & Language. 82, 56-85.*

- Frank, S.L., Otten, L. Galli, G. & Vigliocco, G. (2015). The ERP response to the amount of information conveyed by words in sentences. *Brain and Language.* 140, 1-11.
- Catricala, E., Dellarosa, P., Plebani, V., Vigliocco, G., Cappa, S. (2014). Abstract and concrete categories? Evidences from neurodegenerative diseases. *Neuropsychologia*, 64, 271-281. doi:10.1016/j.neuropsychologia.2014.09.041
- Andrews, M., Frank, S. & Vigliocco, G. (2014). Reconciling embodied and distributional accounts of meaning and language. *Topics in Cognitive Science*, 6, 359-370.
- Della Rosa, P. A., Catricalà, E., De Battisti, S., Vinson, D., Vigliocco, G., & Cappa, S. F. (2014). How to assess abstract conceptual knowledge: construction, standardization and validation of a new battery of semantic memory tests. *Funct Neurol*, 1-9.
- Perniss, P., Vigliocco, G. (2014). The bridge of iconicity: From a world of experience to experience of language. *Philosophical Transactions of the Royal Society B*, 369, 20140179.
- Vigliocco, G., Perniss, P., Vinson, D.P. (2014). Language as a multimodal phenomenon: An Introduction. *Philosophical Transaction of the Royal Society B.* 369, 20130292. (I edited the theme issue in collaboration with Perniss and Vinson)
- Speed, L. & Vigliocco, G. (2014). Eye Movements Reveal the Dynamic Simulation of Speed in Language. *Cognitive Science.* 38, 367-382.
- Vinson, D.P., Ponari, M., Vigliocco, G. (2014). How does emotional content affect lexical processing? *Cognition and Emotion*, 28, 737-746.
- Barber, H.A., Otten, L.J., Kousta, S.-T. & Vigliocco, G. (2013). Word representation in the brain: Rethinking the ERP concreteness effects. *Brain and Language, 125, 47-53.*
- Frank, S.L., Fernandez Monsalve, I., Thompson, R.L., Vigliocco, G. (2013). Reading-time data for evaluating broad-coverage models of English sentence processing. *Behavioural Research Methods*. 4, 1182-1190. doi:10.3758/s13428-012-0313-y
- Vigliocco, G., dellaRosa, P., Vinson, D.P., Devlin, J., Kousta, S.-T. & Cappa, S.F. (2013). The neural representation of abstract words: The role of emotion. *Cerebral Cortex*. 24, 1767-1777. doi:10.1093/cercor/bht025
- Vigliocco, G., Kousta, S.T., Vinson, D.P., Andrews, M. & Del Campo, E. (2013). The representation of Abstract Words: What matters? A reply to Paivio. *Journal of Experimental Psychology:General*, 142, 288-291.
- Fernandez Monsalve, I., Frank, S.L., & Vigliocco, G. (2012). Lexical Surprisal as a general predictor of reading time. *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics* (pp. 398-408). Avignon, France: Association for Computational Linguistics
- Perniss, P., Vinson D.P., Seifert, F. & Vigliocco, G. (2012). Speaking of shape: The effects of language-specific encoding on semantic representations. *Language and Cognition* 4, 223–242.
- Meteyard, L., Rodriguez, S., Bahrami, B., & Vigliocco, G. (2012). Coming of age: A review of embodiment and the neuroscience of semantics. *Cortex*, 48, 788-804.
- Thompson, R.L., Vinson, D.P, Woll, B. & Vigliocco, G. (2012). The road to language learning is iconic: evidence from British Sign Language. *Psychological Science*, 23, 1443-1448.
- Della Rosa PA, Catricalà E, Vigliocco G, Cappa SF (2011). Beyond the abstract-concrete dichotomy: mode of acquisition, concreteness, imageability, familiarity, age of acquisition, context availability, and abstractness norms for a set of 417 Italian words. *Behavior Research Methods*, 42:1042-1048.
- Frank, S. L., & Vigliocco, G. (2011). Sentence comprehension as mental simulation: an information-theoretic perspective. *Information*, 2, 672–696.

- Kousta, S.-T., Vigliocco, G., Vinson, D.P., Andrews, M. & Del Campo, E. (2011). The representation of abstract words: Why emotion matters. *Journal of Experimental Psychology: General, 140,* 14-34.
- Vigliocco, G., Vinson, D.P., Druks, J. & Cappa, S.F. (2011). Nouns and Verbs in the Brain? A review of behavioural, electrophysiological, neuropsychological and imaging studies. *Neuroscience and Biobehavioural Reviews, 35,* 407-426.
- Andrews, M. & Vigliocco, G. (2010). Learning semantic representations with hidden Markov topic models. *Topics in Cognitive Science, 2,* 101-113.
- Barber, H., Kousta, S.-T., Otten, L. & Vigliocco, G. (2010). Event related potential to event related words. *Brain Research*, 1332, 65-74.
- Iwasaki, N., Vinson, D.P. & Vigliocco, G. (2010). The role of the grammatical count/mass distinction in semantic representations and phrasal constructions: Evidence from experiments in English and Japanese. *Language and Cognitive Processes*, 25, 189-223.
- Perniss, P., Thompson, R.L. & Vigliocco, G. (2010). Iconicity as a general principle of language. *Frontiers in Psychology*.
- Sharp, D.J., Awad, M., Warren, J.E., Wise, RJS, Vigliocco, G. & Scott, SK. (2010). The neural response to changing semantic and perceptual complexity during language processing. *Human Brain Mapping*, *31*, *365-377*.
- Thompson, R., Vinson, D.P.& Vigliocco G. (2010). The link between form and meaning in British sign language: effects of iconicity on phonological decisions. *Journal of Experimental Psychology: Learning, Memory and Cognition, 36*, 1017-1027..
- Vinson, D.P., Thompson, R., Skinner, R., Fox, N., Vigliocco, G. (2010). The hands and the mouth do not slip together in British Sign Language: Dissociating articulatory channels in the lexicon. *Psychological Science*, 21, 1158-1167.
- Andrews, M., Vigliocco, G. & Vinson, D.P. (2009). The role of attributional and distributional information in learning semantic representation. *Psychological Review*, 116, 463-498.
- Kousta, S.-T., Vinson, D.P. & Vigliocco, G. (2009). The role of emotional valence in the processing of words. *Cognition*, 112, 473-481.
- Maetzig, S., Druks, J., Masterson, J., & Vigliocco, G. (2009). Object vs. action naming: A double dissociation? *Cortex*, 45, 738-758.
- Meteyard, L. & Vigliocco, G. (2009). Verbs in Space. Behavioural Research Methods, 41, 565-574.
- Thompson, R., Vinson D.P. & Vigliocco, G. (2009). Processing consequences of sign language iconicity. *Journal of Experimental Psychology: Learning, Memory and Cognition,* 35, 550-557.
- Vigliocco, G., Meteyard, L., Andrews, M., & Kousta, S.-T. (2009). Toward a Theory of Semantic Representation. *Language and Cognition* 1, 219-247.
- Vinson, D.P., Cormier, K., Schembri, A., Denmark, T. & Vigliocco, G. (2009). Normative data on familiarity, age of acquisition and iconicity for British Sign Language. *Behavioral Research Methods*, 40, 1079-1087.
- Franck, J., Vigliocco, G., Anton-Mendez, I., & Collina, S. (2008). The interplay of sound and syntax in sentence production: A cross-linguistic study of form effects on agreement. *Language and Cognitive Processes*, 23, 329-374.
- Iwasaki, N., Vinson, D.P., Arciuli, J., Watanabe, M. & Vigliocco, G. (2008). Naming actions in Japanese: Effects of semantic similarity and grammatical class. *Language and Cognitive Processes*, 23, 889-930.

- Kousta, S.-T., Vinson, D.P. & Vigliocco, G. (2008). Investigating linguistic relativity through bilingualism: The case of grammatical gender. *Journal of Experimental Psychology: Learning, Memory and Cognition.* 34, 843-858.
- Meteyard, L., Zokaei, N., Bahrami, B. & Vigliocco, G. (2008). Now you see it: visual motion interferes with lexical decision on motion words. *Current Biology*, 18(17) R732-733.
- Siri, S., Tettamanti, M., Cappa, S. Della Rosa, P., Saccuman, C., Scifo, P. & Vigliocco, G. (2008). The neural substrate of naming events. *Cerebral Cortex*, *18*, 171-177.
- Vigliocco, G., Vinson, D.P., Arciuli, J. & Barber, H. (2008). Recognizing Nouns and Verbs: Effects of Syntactic Context. *Brain & Language*, 105, 175-184.
- Vinson, D.P. & Vigliocco, G. (2008). Feature norms for a large set of object and event concepts. Behavioral Research Methods.40, 183-190.
- Meteyard, L., Baharami, B. & Vigliocco, G. (2007). The perceptual grounding of motion verbs. *Psychological Science*, *11*, 1007-1013.
- Arciuli, J., Cupples, L. & Vigliocco, G. (2006). Are word meanings corresponding to different grammatical categories organised differently within lexical semantic memory? *The Mental Lexicon*, 2, 251-275.
- Vigliocco, G. & Kita, S. (2006). Language-specific effects of meaning, sound and syntax: Implications for models of lexical retrieval in production. *Language and Cognitive Processes*, 21, 790–816.
- Vigliocco, G., Warren, J., Siri, S., Arciuli, J., Scott, S., & Wise, R. (2006). The role of semantics and grammatical class in the neural representation of words. *Cerebral Cortex*, 16, 1790-1796.
- Andrews, M., Vigliocco, G., & Vinson, D.P (2005). The role of attributional and distributional information in representing meaning. *Proceedings of the 27th Meeting of the Cognitive Science Society*.
- Supp, G.G., Schlogl, A., Fiebach, C., Gunter, T., Vigliocco, G., Pfurtscheller, G., Petsche, H. (2005). Semantic memory retrieval: Cortical couplings in object recognition in the N400 window. *European Journal of Neuroscience*. 21, 1139-1143.
- Vigliocco, G., Vinson, D.P., Paganelli F. & Dworzynski, K. (2005). Grammatical gender effects on cognition: Implications for language learning and language use. *Journal of Experimental Psychology: General, 134,* 501-520.
- Vigliocco, G., Vinson, D.P., Siri, S. (2005). Semantic and grammatical class effects in naming actions. *Cognition* 94, B91-100.
- Vigliocco, G., Vinson, D.P., Woolfe, T., Dye, M.W., & Woll, B. (2005). Words, signs and imagery: when the language makes the difference. *Proceedings of the Royal Society B*, 272, 1859-1863.
- Garrard, P., Carroll, E., Vinson, D.P., & Vigliocco, G. (2004). Dissociating lexico-semantics and lexico-syntax in semantic dementia. *Neurocase, 10*, 353-362.
- Vigliocco G. & Filopovic Kleiner L. (2004). From mind in the mouth to language in mind. *Trends in Cognitive Science*, *8*, 5-7.
- Vigliocco, G., Vinson, D.P. & Paganelli, F. (2004). Grammatical gender and meaning. *Proceedings of the 26th Meeting of the Cognitive Science Society.*
- Vigliocco, G., Vinson, D.P, Lewis, W. & Garrett, M.F. (2004). Representing the meaning of objects and actions words: The featural and unitary semantic space hypothesis. *Cognitive Psychology, 48,* 422-488.
- Vigliocco, G., Vinson, D., Indefrey, P., Levelt, W., & Hellwig, F. (2004). The interplay between meaning and syntax in language production. *Journal of Experimental Psychology: Learning, Memory & Cognition, 30*, 483-497.

- Franck, J., Bowers, J.S., Frauenfelder, U.H., & Vigliocco, G. (2003). Orthographic influences on agreement: a case for modality-specific form effects on grammatical encoding. *Language and Cognitive Processes, 18*, 61-79.
- Paganelli, F., Vigliocco, G., Vinson, D.P., Siri, S. & Cappa, S. (2003). An investigation of semantic errors in unimparied and Alzheimer's speakers of Italian. *Cortex, 39,* 419-439.
- Vinson, D.P., Vigliocco, G., Cappa, S. & Siri, S. (2003). The breakdown of semantic knowledge along semantic fields boundaries: Insights from an empirically-driven statistical model of meaning representation. *Brain & Language, 86,* 347-365.
- Franck, J., Vigliocco G., & Nicol, J.L. (2002). The role of syntactic tree structure and complexity in subject-verb agreement. *Language and Cognitive Processes*, *17*, 371-404.
- Vigliocco, G., Vinson, D.P., Damian, M.F. & Levelt, W. (2002). Semantic distance effects on object and action naming. *Cognition, 85,* B61-B69.
- Vigliocco, G. & Hartsuiker, R.J. (2002). The interplay of meaning, sound & syntax in language production. *Psychological Bulletin, 128, 442-472.*
- Vigliocco, G., Lauer, M., Damian, M. & Levelt, W. (2002). Semantic and syntactic forces in noun phrase production. *Journal of Experimental Psychology: Learning, Memory and Cognition, 28,* 46-58.
- Vinson, D. & Vigliocco, G. (2002). A semantic analysis of grammatical class impairments. *Journal* of *Neurolinguistics*, 15, 317-351.
- Damian, M., Vigliocco, G., & Levelt, W.J. (2001). Effects of semantic context in the naming of pictures and words. *Cognition*, 81, B77-B86.
- Morra, S, Vigliocco, G., & Penello, B. (2001). M Capacity as a lifespan construct: A study of its decrease in ageing subjects. *International Journal of Behavioral Development*. 25, 78-87.
- Vigliocco, G., & Franck, J. (2001). When sex hits syntax: Gender agreement in sentence production. *Journal of Memory and Language*, 45, 368-390.
- Vigliocco, G. (2000). Language processes: the anatomy of meaning and syntax. *Current Biology,* 10, R78-R80.
- Bowers, J.S., Vigliocco, G., Stadthagen-Gonzalez, H, & Vinson, D.P. (1999). Distinguishing language from thought: Experimental evidence that syntax is lexically rather than conceptually represented. *Psychological Science*, 10, 310-315.
- Vigliocco, G. & Franck, J. (1999). When Sex and Syntax go hand in hand: Gender agreement in language production. *Journal of Memory and Language*, 40, 455-478.
- Vigliocco, G., Vinson, D.P., Martin, R.C., & Garrett, M.F. (1999). Is "count" and "mass" information available when the noun is not? An investigation of tip of the tongue states and anomia. *Journal of Memory and Language*, 40, 534-558.
- Vigliocco, G., & Zilli, T. (1999). Syntactic accuracy in sentence production: Gender disagreement in Italian language impaired and unimpaired speakers. *Journal of Psycholinguistic Research*, 28, 623-648.
- Vinson, D.P., & Vigliocco, G. (1999). Can independence be observed in a dependent system? *Brain and Language*, 68, 118-126.
- Bowers, J.S., Vigliocco, G., & Haan, R. (1998). Orthographic, phonological and articulatory contributions to masked letter and word priming. *Journal of Experimental Psychology: Human Perception and Performance*, 24, 1705-1719.
- Iwasaki, N., & Vigliocco, G., Garrett, M.F. (1998). Adjectives and adjectival nouns in Japanese: psychological processes in sentence production. *Japanese/Korean Linguistics*, 8, 93-105.

- Silverberg, N., Vigliocco, G. & Garrett, M.F. (1998). When reading a sentence is easier than reading a "little" word The role of production processes in Deep Dyslexia. *Aphasiology*, 12, 335-356.
- Vigliocco, G. & Nicol, J. L. (1998). Separating hierarchical relations and word order in language production. Is proximity concord syntactic or linear? *Cognition*, 68, 13-29.
- Vigliocco, G., Antonini, T., & Garrett, M.F. (1997). Grammatical gender is on the tip of Italian tongues. *Psychological Science*, 8, 314-317.
- Vigliocco, G, Butterworth, B & Garrett, M.F. (1996). Subject-Verb agreement in Spanish and English: Differences in the role of conceptual factors. *Cognition*, 61, 261-298.
- Vigliocco, G., Hartsuiker, R.J., Jarema, G., & Kolk, H.H.J. (1996). How many labels on the bottles? Notional concord in Dutch and French. *Language and Cognitive Processes*, 11, 407-421.
- Vigliocco, G., Butterworth, B. & Semenza, C. (1995). Computing Subject Verb agreement in speech: The role of semantic and morphological information. *Journal of Memory and Language*, 34, 186-215.
- Vigliocco, G., Antonini, T., Silverberg, N, & Garrett, M. (1995). Retrieval of syntactic information during the tip-of-the-tongue state and in anomia. *Brain and Language*, 51, 31-34.
- Semenza, C., & Vigliocco, G. (1994). A variety of phonological dyslexia: The lack of interaction between reading subroutines. *Brain and Language*, 47, 3, 439-441.
- Vigliocco, G., Butterworth, B., Semenza C. & Fossella, S. (1994). How two aphasic patients compute Subject Verb agreement. *Journal of Neurolinguistics*, 8, 1, 19-25.

Book Chapters

- Chick, I, Garrard, P., Buxbaum L. & Vigliocco, G. (in press). Co-speech gestures in spoken discourse among speakers with language disorders. In Anthony Pak-Hin Kong (Ed.): Spoken Discourse Impairments in the Neurogenic Populations. Springer Nature.
- Grzyb, B. & Vigliocco, G. (2023). Beyond robotic speech: mutual benefits to cognitive psychology and artificial intelligence from the study of multimodal communication.
- Cai, Z. & Vigliocco, G. (2018). <u>Word processing</u>. In S. Thompson-Schill (Ed.). *Wiley Encyclopedia of Cognitive Science*.
- Meteyard, L. & Vigliocco, G. (2018). Lexico-Semantics. In Oxford Handbook of Psycholinguistics, 2nd edition.
- Kilner, J., Hommel, B., Bar, M., Barsalou, L.W, Friston, K.J., Jost, J., Maye, A. & Vigliocco, G. (2017). A little less cogitation, a little more action please. *The Pragmatic Turn: Toward Action-Oriented Views in Cognitive Science*, 159.
- Speed, L.J. & Vigliocco, G. Perceptual simulation of space, speed and time in language. In M. Fisher & Y. Coello (Eds.) Conceptual and Interactive Embodiment: Foundations of Embodied Cognition 2, 29
- Speed, L.J., Vinson, D.P & Vigliocco, G. (2016). Representing Meaning. In *Encyclopedia of Cognitive Linguisitcs*, London: De Gruyter Mouton
- Vinson, D.P., Andrews, M., Vigliocco, G. (2014). Semantics in models of language production. In M. Goldrick, V. Ferreira & M. Miozzo (Eds). Oxford Handbook of Language Production. Oxford University Press.
- Hartsuiker, R.H. & Vigliocco, G. (2015). Word Production. In K.Kluender (ed.) *Elsevier Encyclopedia of Cognitive Science*.
- Vigliocco, G., Tranel, D. & Druks, J. (2012) Language Production: Patients and neuroimaging research. In K. McRae and M. Spivey (Eds.) *Cambridge Handbook of Psycholinguistics*

- Meteyard, L. & Vigliocco, G. (2008). The role of sensory motor information in semantic representation. In A. Gomilla (Ed.) *Elsevier Handbook of Embodied Cognitive Science*. Elsevier.
- Vigliocco, G. & Vinson, D.P. (2007). Semantics. In G. Gaskell (Ed.) Oxford Handbook of Psycholinguistics. Oxford University Press.
- Vigliocco, G. & Hartsuiker, R. (2005). Maximal input and feedback in production and comprehension. In A. Cutler (Ed.). *Twenty-First Century Psycholinguistics: Four Cornerstones*. Oxford University Press.
- Vigliocco, G. & Vinson, D.P. (2003). Speech production. In L. Nadel (Ed.) *Encyclopedia of Cognitive Science, vol.* 3: 182-189. New York: Nature Publishing Group.
- Schriefers, H.H., & Vigliocco, G. (2002). Speech production: Psychology of. In International Encyclopedia of the Social and Behavioral Science. 22: 14879-82. Elsevier
- Vigliocco, G. (2002). Tip-of-the-tongue: Psychology of. In: *International Encyclopedia of the Social* and Behavioral Science. 23: 15759-62. Elsevier.
- Vigliocco, G., & Fava, E. (1993). Diglossia, forme fonologiche e sistemi sintattici: Alcune considerazioni di non-isomorfismo. In E. Cresti e M. Moneglia (Ed.) *Ricerche recenti sull'acquisizione dell'italiano in bambini normali e patologici*. Bulzoni, Roma.

Other Publications

- Zorzi, M., & Vigliocco, G. (2000). Dissociation between regular and irregular in connectionist architectures Two processes, but still no special linguistic rules. Commentary to: "Lexical entries and rules of language: A multidisciplinary study of German inflection" by Clahsen. Behavioral and Brain Sciences, 22, 1045-+.
- Vigliocco, G., & Zorzi, M. (1999). Contact points between lexical retrieval and sentence production. Commentary to "A Theory of Lexical Access in Speech Production" by Levelt, Roelofs and Meyer, *Behavioral and Brain Sciences*, 22, 58-59.
- Zorzi, M., & Vigliocco, G. (1999). Compositional semantics and the lemma dilemma. Commentary to "A Theory of Lexical Access in Speech Production" by Levelt, Roelofs and Meyer. *Behavioral and Brain Sciences*, 22, 60-61.

Knowledge Transfer

I actively disseminate to appropriate groups results from my research. In recent years, I have been invited to a number of meetings involving educators and speech and language therapists (both in the UK and in Europe) to present my work on the learning of abstract concepts, and my work on multimodal language which has also been disseminated in the form of *briefing sheet* to relevant governmental departments.

In the past, I have organised exhibits at the science museum. The last one (2014) was three weeks long and attracted more than 1,500 visitors from all over the word, both adults and children. I have also organised two symposia for the British Festival of Science which have received media coverage and very positive feedback from the participants.

During my time as co-director of DCAL, I have been actively involved in dissemination to the Deaf organisations and individuals and maintaining strong links with non-academic users as members of the D/deaf Community and stakeholders. My lab members regularly attended (DCAL Roadshow) Deaf community events in order to publicise the work of DCAL and to engage them into our research.

My work has featured in *Nature News* and the *Psychologist*. I contributed to the development of a BBC Radio 4 series (*Momentary Slips of the Mind*) and features in two of these shows.

Teaching Management of Teaching within UCL

As <u>Vice Dean Education</u> for FBS, I have been responsible for the Faculty education strategy. FBS provides undergraduate education to more than 600 students, M-Level education to more than 800 students and PhD (or professional doctorates) to more than 800 students. As VD, I have been responsible for the faculty level oversight of all programmes. I also regularly contributed to UCL or SLMS level working groups on specific issues (e.g., UCL e-learning strategy; SLMS PGR education).

Highlights of achievements during my tenure include:

- 1. To promote research-embedded education from day 1 for UG students, I have introduced the "Meet the Researcher" initiative whereby students in their first year as UG can watch short videoclips of main researchers within the faculty describing their work and then choose who, among them they want to meet in person for an interview. The initiative has been very successful. Our Faculty Tutor, who implemented it, was recognized for this work with a Provost Teaching Award and the scheme was presented to the other UCL Faculties as an example of innovation and good practice.
- 2. To provide UG students with opportunities for longer research experience as well as experience of professional environments, I have introduced the MSci programme in Psychology, this is a 4-year UG programme where in the final year, students can choose between carrying out a longer research project in a lab of their choice or an internship in various organizations. The programme is proving to be successful, with more and more students signing up to it (rather the then 3-years BSc). It is expected that it will become the standard offering in the Division, while the BSc will be maintained as a backup. The MSci has clear financial advantages over the BSc both for the faculty and for the students.
- 3. I have contributed throughout the years to the change in promotion criteria to allow for greater recognition of education activities along with research activities, both in my interactions with the VP Education as well as member of the SLMS promotion committee in 2014-15.
- 4. I have carried out review processes of PGT education within the faculty, including a major review of IoN education which has led to a full reorganization of education activities within the Institute.
- 5. Finally, to increase numbers of PhD students within the faculty, I have successfully led the bid for the Leverhulme Doctoral Training Programme for the Ecological Study of the Brain. This is the first DTP homed in the faculty as well as the first Leverhulme DTP within UCL. I am also actively encouraging PIs in the faculty to apply for funding.

As <u>Acting Head of the Psychology and Language Sciences Division</u>, I managed a large division with 110 academics grouped in 6 major research department. During my tenure I had been responsible for a number of senior hires and the development and approval of major estate projects.

As <u>Head of the CPB Research Department</u>, I was responsible for the management and monitoring of existing MSc courses, and the development of new MSc courses including allocation of teaching for the Psychology BSc. In addition, I was highly involved in the process of rationalisation of language-related MScs across the PALs division which is currently underway.

Developing and Delivering Challenging Teaching

At post-graduate Level

I regularly contribute modules for the Psychological Science MSc course (Language Development and Language Processing); for the Neuroscience of Language MSc (Semantic Representaiton) and for the Doctorate in Educational Psychology (Language Development and Bilingual Language Acquisition). In my lectures I combined a description of the research, with practical examples and with debates. Students' evaluations have always been positive.

I have been invited to contribute several lectures to <u>international schools</u> along with leading figures in the field (e.g., the *European Diploma in Brain and Cognitive Sciences*). In 2007, I convened a very successful international summer school for post-graduate students in deafness, cognition and

language sciences. I am expected to convene a second DCAL summer school in summer 2010 for which I will seek funding from the ESRC.

At undergraduate Level

I regularly contributed lectures to the "Language and Cognition" (B2208) second year course. In the years, I have played a central role in redesigning its content working closely with the course convenor to move toward a more interactive teaching style, including setting up debates on hotly debated issues and giving more hands on demonstrations of actual research findings. I also regularly, run first year labs.

I lead third year seminars. I have introduced <u>peer reviewing</u> as a formative exercise to improve student writing. For each essay students submit a draft, which is reviewed by a peer, and then a final version, amended following the reviewer's recommendations, which I mark. The scheme is now used by a number of other seminar leaders in the department for BSc students in their second and third year. Taking advante of my many years of experience in interview panels of all sorts, I also run <u>mock interview sessions</u> in which students (who volunteer) first submit to the group their CV, cover letter and job description for the position they have (or wish to) apply. During the session, 3-4 other students join me on the panel, we run the mock interview and finally we discuss the interview with the whole group. These sessions have proved to be extremely popular among students.

Part time working and personal circumstances 2006: Maternity Leave (6 months) 2012: Sick Leave (6 months)