

Current positions and titles

Professor of Cognitive Neuroscience, Dept. of Experimental Psychology and Tutorial Fellow in Psychology, St Anne's College, University of Oxford, UK

Associate Head for People & Culture, Dept. of Experimental Psychology, University of Oxford, UK

Principal Investigator, Brain, Speech and Language Group, Dept. of Experimental Psychology, University of Oxford <http://www.psy.ox.ac.uk/research/speech-and-brain-research-group>

Psychology & Neuroscience Delegate to the Oxford University Press (2015 to date)

2022 Fellow of the Association of Psychological Science

Employment History

University of Oxford, UK

Since October 2006

Associate Professor in Department of Experimental Psychology and Tutorial Fellow at St. Anne's College University of Oxford. Title of Professor of Cognitive Neuroscience conferred July 2014.

October 2003 – September 2006

Post-doctoral researcher (FMRIB); Career Development Fellowship, Dept. of Experimental Psychology and Balliol College.

McGill University, Montreal, Canada

March 1999 – September 2003

Assistant Professor in Neurology & Neurosurgery, Montreal Neurological Institute

Post-doctoral researcher in Cognitive Neuroscience Unit, Montreal Neurological Institute

University College London, UK

October 1990 – February 1999

Research Assistant and Assistant Neuropsychologist (Honorary contract) at the Institute of Child Health and Great Ormond Street Hospital for Children.

Education

1995 - 1999 PhD in Cognitive Neuroscience, University College London, UK

1992 - 1994 MSc Neurological Sciences (Dist.), University College London, UK

1987 - 1990 BA(Hons) Natural Sciences Tripos (Part 2: Psychology)
Christ's College, University of Cambridge, UK

Contributions outside the University (current positions only)

- Co-Editor-in-Chief & Co-founder, *Neurobiology of Language* (new MIT Press Open Access journal 2019)
- Member of the Scientific Advisory Board (SAB) of the Dutch Gravitation consortium Language in Interaction, Radboud University, Donders Centre for Cognitive Neuroimaging (DCCN), Nijmegen, The Netherlands (02/22 to date)
- Member of the Scientific Advisory Board (SAB) of the Max Planck Institute for Psycholinguistics in Nijmegen, The Netherlands (01/22 – 12/27)

Kate Watkins
Curriculum Vitae

- Organiser (with Profs Simon Fisher and David Poeppel), Cold Spring Harbour Laboratory course on “Genetics and Neurobiology of Language” (August 2014; July 2016; July 2018; July 2022)
- Editorial Board, *Language, Cognition and Neuroscience* (2014 to date)
- Editorial Board, *Human Brain Mapping* (2004 to date).

Public engagement (recent + selected)

- “Your Amazing Brain” A’ level Science Day for local schools in Oxfordshire, Banbury, April 2022
- Panellist, discussion of film “*Picture a Scientist*” for International Day of Women and Girls in Science, 9th February 2022, organised by Society of Spanish Researchers in the UK.
- Panellist, discussion of film “*The Diving Bell and the Butterfly*” at the Ultimate Picture Palace in Oxford, Oxford Festival of Science + Ideas, 23rd October 2021
- Member of Steering Group for the Developmental Childhood Stammering Priority Setting Partnership (PSP). Action for Stammering Children and James Lind Alliance (2021 to date)
- “Brain research with people who stammer”, presentation and panellist, 30th anniversary event for the charity Action for Stammering Children, UCL, London, September 2019 (Facebook live event).
- “Talking Brains”, presentation and panellist, Neuroscience & Education evening for teachers, Headington Girl’s School, Oxford, March 2019
- “Talking Brains”, presentation at Biology & Psychology Day, Millfield School, Somerset, January 2019
- “Electricity, Magnetism and the Brain”, Stand at *NeuroNight* museum event for Brain Diaries exhibit, May 2017 (>1000 attendees); Talking Brains, Research Café, Natural History Museum, Oxford (same event)
- “A look inside the Brain”, A’ level Psychology Day for local schools, Natural History Museum, Oxford, March 2017, December 2017

Invited Talks (recent + selected)

- August 2022, Gordon Research Conference, South Hadley, MA: *Neural Mechanisms of Acoustic Communication* “Brain Structure and Function in Speech and Speech Disorders”
- June 2022, Royal Society London, [Festschrift for Dorothy Bishop](#), “Talking Brains: Neuroimaging of developmental disorders of speech and language”
- March 2022, Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands [NEUROBIOLOGY OF LANGUAGE: KEY ISSUES AND WAYS FORWARD II](#) “Challenges and solutions to studying the neural correlates of developmental speech and language disorders”
- September 2021, Stockholm University Brain Imaging Centre (SUBIC) inaugural symposium “Brain Imaging in the Human Sciences: Expanding Research Opportunities”; public lecture “Scanning and stimulating speaking”
- June 2021, Centre for Developmental Cognitive Neuroscience, Institute of Child Health, UCL, UK, “Stimulating speech: auditory-motor interactions in production and perception”
- January 2021 (postponed from September), 12th Oxford Dysfluency Conference, Oxford, UK. Keynote talk “Scanning and stimulating the brain in people who stutter”
- September 2020, Zurich, Workshop “Oscillations, Language & the Brain” Keynote talk “Stimulating language: auditory-motor interactions in speech production and perception”
- August 2019, Annual conference of the Society for the Neurobiology of Language, Helsinki, Finland Symposium talk “Combining methods to study the neurobiology of language”
- May 2019, Scientific Day, Centre for Research into the Brain, Language, and Music, Montreal, Canada. “The Stuttering Brain: Scanning and Stimulation Studies”
- February 2019 Spring School on Music & Language, Universitat Koln, Germany. Lecture on “Stimulating Speech: Auditory-motor interactions in perception and production”
- July 2018 Great Ormond Street Institute of Child Health, Centre for Research Excellence in Speech & Language, London, UK. Talk on “The Stuttering Brain” at “Neurobiology of Speech-Language Disorders: Genetic and MRI Advances” Symposium

Publications

Citations analysis (August 2022)

Google Scholar: h-index 56, i-10 index 93, citations 28614

Scopus: h-index 43, i-10 index 79, citations 17362 (Author ID: 7101970036)

Peer-reviewed manuscripts

1. Eising E, Mirza-Schreiber N, de Zeeuw EL, Wang CA, Truong DT, Allegrini AG, Shapland, CY, Xhu G, Wigg KG, Gerritse ML, Molz B, Alagöz G, Gialluisi A, Abbondanza F, Rimfeld K, van Donkelaar M, Liao Z, Jansen PR, Andlauer TFM, Bates, TC, Bernard M, Blockland K, Bonte M, Borglum AD, Bourgeron T, Brandeis D, Ceroni F, Csépe V, Dale PS, de Jong PF, DeFries JC, Démonet F, Demontis D, Feng Y, Gordon SD, Guger SL, Hayiou-Thomas ME, Hernández-Cabrera JA, Hottenga J-J, Hulme C, Kere J, Kerr EN, Koomar T, Landerl K, Leonard GT, Lovett MW, Lyytinen H, Martin NG, Martinelli A, Maurer U, Michaelson JJ, Moll K, Monaco AP, Morgan AT, Noethen MM, Pausova Z, Pennel CE, Pennington BF, Price KM, Rajagopal VM, Ramus F, Richer L, Simpson NH, Smith S, Snowling MJ, Stein J, Strug LJ, Talcott JB, Tiemeier H, van der Schroeff MP, Verhoel E, **Watkins KE**, Wilkinson M, Wright MJ, Ban CL, Boomsma DI, Carreiras M, Franken M-CJ, Gruen JR, Lucian M, Müller-Myhsok B, Newbury DF, Olson RK, Parracchini S, Plomin R, Reilly S, Schult-Körne G, Tomblin B, van Bergen E, Whitehouse AJO, Willcutt EG, St Pourcain B, Francks C, Fisher SE (2022) Genome-wide analyses of individual differences in quantitatively assessed reading- and language-related skills in up to 34,000 people. *Proc Natl Acad Sci* 119(35): e2202764119. doi: 10.1073/pnas.2202764119.
2. Krishnan S, Cler GJ, Smith HJ, Willis HE, Asaridou SS, Healy MP, Papp D & **Watkins KE** (2022). Quantitative MRI reveals differences in striatal myelin in children with DLD. *eLife* (in press) <https://doi.org/10.1101/2021.10.18.464793> (preprint)
3. Parker AJ, Woodhead ZVJ, Carey DP, Groen MA, Gutierrez-Sigut E, Hodgson J, Hudson J, Karlsson EM, MacSweeney M, Payne H, Simpson N, Thompson PA, **Watkins KE**, Egan C, Grant JH, Harte S, Hudson BT, Sablik M, Badcock NA, Bishop DVM (2022) Inconsistent language lateralisation – Testing the dissociable language laterality hypothesis using behaviour and lateralised cerebral blood flow. *Cortex*, 154: 105-134 doi: 10.1016/j.cortex.2022.05.013.
4. **Watkins KE**, Coullon GSL, Bridge H (2022) Language and nonverbal auditory processing in the occipital cortex of individuals who are congenitally blind due to anophthalmia. *Neuropsychologia* 173:108304. doi: 10.1016/j.neuropsychologia.2022.108304.
5. Lu Y, Wiltshire CEE, **Watkins KE**, Chiew M, Goldstein L (2022). Characteristics of articulatory gestures in stuttered speech: a case study using real-time magnetic resonance imaging. *Journal of Communication Disorders*: 106213. doi: 10.1016/j.jcomdis.2022.106213
6. Cler G, Krishnan S, Papp D, Wiltshire CEE, Chesters J, **Watkins KE** (2021) Elevated iron concentration in putamen and cortical speech motor network in developmental stuttering. *Brain* Nov 9 doi: 10.1093/brain/awab283
7. Tang D-L, McDaniel A, **Watkins KE** (2021) Disruption of Speech Motor Adaptation with Repetitive Transcranial Magnetic Stimulation of the Articulatory Representation in Primary Motor Cortex. *Cortex* 145: 115-130 doi: 10.1016/j.cortex.2021.09.008
8. Bishop DVM, Grabitz CR, Harte SC, **Watkins KE**, Sasaki M, Gutierrez-Sigut E, MacSweeney M, Woodhead ZVJ, Payne H. (2021) Cerebral lateralisation of first and second languages in bilinguals assessed using functional transcranial Doppler ultrasound. *Wellcome Open Res.* 1:15. doi: 10.12688/wellcomeopenres.9869.2.
9. Wiltshire CEE, Chiew M, Chesters J, Healy MP, **Watkins KE**. (2021) Speech Movement Variability in People Who Stutter: A Vocal Tract Magnetic Resonance Imaging Study. *J Speech Lang Hear Res.* 2021 Jul 16;64(7):2438-2452. doi: 10.1044/2021_JSLHR-20-00507. [Editor's Award, Speech Section]
10. Bruckert L, Thompson PA, **Watkins KE**, Bishop DVM, Woodhead ZVJ. (2021) Investigating the effects of handedness on the consistency of lateralization for speech production and semantic

- processing tasks using functional transcranial Doppler sonography. *Laterality* 9:1-26. doi: 10.1080/1357650X.2021.1898416.
11. Eichert N, **Watkins KE**, Mars RB, Petrides M (2021). Morphological and functional variability in central and subcentral motor cortex of the human brain. *Brain Struct Funct.* doi: 10.1007/s00429-020-02180-w. [Prize for best paper at journal awarded at OHBM 2022]
 12. Tang D-L, Möttönen R, Asaridou SS, **Watkins KE** (2021) Asymmetry of auditory-motor speech processing is determined by language experience. *J Neurosci.* doi: 10.1523/JNEUROSCI.1977-20.2020.
 13. Krishnan S, Asaridou SS, Cler GJ, Smith HJ, Willis HE, Healy MP, Thompson PA, Bishop DVM, **Watkins KE** (2021) Functional organisation for verb generation in children with developmental language disorder. *Neuroimage* 226:117599. doi: 10.1016/j.neuroimage.2020.117599. [Awarded the 2021 BPS Developmental Section Neil O'Connor prize]
 14. Eichert N, Papp D, Mars RB, **Watkins KE** (2020) Mapping Human Laryngeal Motor Cortex during Vocalization *Cereb Cortex* 30(12):6254-6269 doi:10.1093/cercor/bhaa182
 15. Wiltshire CEE, **Watkins KE** (2020) Failure of tDCS to modulate motor excitability and speech motor learning. *Neuropsychologia* 146: 107568. doi:10.1016/j.neuropsychologia.2020.107568
 16. Lametti DR, Quek MYM, Prescott CB, Brittain JS, **Watkins KE** (2020) The perils of learning to move while speaking: One-sided interference between speech and visuomotor adaptation. *Psychon Bull Rev.* 27(3): 544-552. doi: 10.3758/s13423-020-01725-8.
 17. Eichert N, Robinson EC, Bryant KL, Jbabdi S, Jenkinson M, Li L, Krug K, **Watkins KE**, Mars RB. (2020) Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. *Elife* 9. pii: e53232. doi: 10.7554/eLife.53232.
 18. Bridge H, **Watkins KE** (2019) Structural and functional brain reorganisation due to blindness: The special case of bilateral congenital anophthalmia. *Neurosci Biobehav Rev.* 107: 765-774. doi: 10.1016/j.neubiorev.2019.10.006.
 19. Argyropoulos GPD, **Watkins KE**, Belton-Pagnamenta E, Liegeois F, Saleem KS, Mishkin M, Vargha-Khadem F (2019) Neocerebellar Crus I abnormalities associated with a speech and language disorder due to a mutation in FOXP2. *Cerebellum* 18(3): 309-319 doi: 10.1007/s12311-018-0989-3.
 20. Lametti DR, Smith HJ, **Watkins KE**, Shiller DM. (2018) Robust Sensorimotor Learning during Variable Sentence-Level Speech. *Curr Biol.* 28(19): 3106-3113 doi: 10.1016/j.cub.2018.07.030
 21. Krishnan S, Sellars E, Wood H, Bishop DVM, **Watkins KE** (2018) The influence of evaluative right/wrong feedback on phonological and semantic processes in word learning. *Royal Soc Open Sci* doi: 10.1098/rsos.171496 [Epub]
 22. Connally EL, Ward D, Pliatsikas C, Finnegan S, Jenkinson M, Boyles R, **Watkins KE** (2018) Separation of trait and state in stuttering. *Hum Brain Mapp.* doi: 10.1002/hbm.24063.
 23. Panouillères MTN, Boyles R, Chesters J, **Watkins KE**, Möttönen R (2018) Facilitation of motor excitability during listening to spoken sentences is not modulated by noise or semantic coherence. *Cortex* 103: 44-54. doi: 10.1016/j.cortex.2018.02.007.
 24. Chesters J, Möttönen R, **Watkins KE** (2018) Transcranial direct current stimulation over left inferior frontal cortex improves speech fluency in adults who stutter. *Brain* 141(4): 1161-1171 doi: 10.1093/brain/awy011.
 25. Lametti DR, Smith HJ, Freidin PF, **Watkins KE** (2018) Cortico-cerebellar Networks Drive Sensorimotor Learning in Speech. *J Cogn Neurosci.* 30(4): 540-551. doi: 10.1162/jocn_a_01216.
 26. Krishnan S, **Watkins KE**, Bishop DVM (2017) The effect of recall, reproduction, and restudy on word learning: a pre-registered study. *BMC Psychol.* 5(1): 28. doi: 10.1186/s40359-017-0198-8.
 27. Gough P, Connally EL, Howell P, Ward D, Chesters J & **Watkins KE** (2018) Planum Temporale Asymmetry in People who Stutter. *J Fluency Disorders* 55: 94-105. doi: 10.1016/j.jfludis.2017.06.003. [Epub Jun 2017]
 28. Grabitz CR, **Watkins KE**, Bishop DVM (2016) Cerebral lateralisation of first and second languages in bilinguals assessed using functional transcranial Doppler ultrasound. *Wellcome Open Research*, 1 <https://wellcomeopenresearch.org/articles/1-15/v1>

29. Chesters J, **Watkins KE**, Möttönen R. (2016) Investigating the feasibility of using transcranial direct current stimulation to enhance fluency in people who stutter. *Brain Lang.* 164: 68-76.
30. Barbeau EB, Chai XJ, Chen JK, Soles J, Berken J, Baum S, **Watkins KE**, Klein D. (2016) The role of the left inferior parietal lobule in second language learning: An intensive language training fMRI study. *Neuropsychologia* doi: 10.1016/j.neuropsychologia.2016.10.003. [Epub ahead of print]
31. Aguirre GK, Datta R, Benson NC, Prasad S, Jacobson SG, Cideciyan AV, Bridge H, **Watkins KE**, Butt OH, Dain AS, Brandes L, Gennatas ED. (2016) Patterns of Individual Variation in Visual Pathway Structure and Function in the Sighted and Blind. *PLoS One* 11(11): e0164677. doi: 10.1371/journal.pone.0164677.
32. Krishnan S, **Watkins KE**, Bishop DV. (2016) Neurobiological Basis of Language Learning Difficulties. *Trends Cogn Sci* 20(9): 701-14
33. Mottonen R, Farmer H, **Watkins KE** (2016) Neural basis of understanding communicative actions: Changes associated with knowing the actor's intention and the meanings of the actions. *Neuropsychologia* 81: 230-237.
34. Bock AS, Binda P, Benson N, Bridge H, **Watkins KE**, Fine I (2015) Resting-state retinotopic organization in the absence of retinal input and visual experience. *J Neuroscience* 35(36): 12366-12382.
35. Coullon GS, Emir U, Fine I, **Watkins KE**, Bridge H. (2015) Neurochemical changes in the pericalcarine cortex in congenital blindness due to bilateral anophthalmia. *J Neurophysiol.* 114(3): 1725-1733.
36. Berken, J.A., Gracco, V.L., Chen, J.-K., **Watkins, K.E.**, Baum, S., Callahan, M., & Klein, D. (2015) Neural activation in speech production and reading aloud in native and non-native languages. *NeuroImage* 112: 208-217.
37. Ward, D., Connally, E.L., Pliatsikas, C., Bretherton-Furness, J., & **Watkins, K.E.** (2015) The neurological underpinnings of cluttering: Some initial findings. *J Fluency Dis* 43: 1-16
38. Coullon GS, Jiang F, Fine I, **Watkins KE**, Bridge H (2015) Subcortical functional reorganization due to early blindness. *J Neurophysiol.* 113(7): 2889-99
39. Rogers JC, Mottonen R, Boyles R, **Watkins KE** (2014) Discrimination of speech and non-speech sounds following theta-burst stimulation of the motor cortex. *Front Psychol (Lang Sci)* 5: 754 doi: 10.3389/fpsyg.2014.00754
40. Möttönen R, Rogers J, **Watkins KE** (2014) Stimulating the lip motor cortex with transcranial magnetic stimulation. *J Vis Exp.* 88 (on-line).
41. Mottonen R, van de Ven G, & **Watkins KE** (2014) Attention fine-tunes auditory-motor processing of speech sounds. *J Neuroscience*, 34(11): 4064-9.
42. **Watkins KE**, Shakespeare TJ, O'Donoghue MC, Alexander I, Ragge N, Cowey A & Bridge H (2013) Early Auditory Processing in Area V5/MT+ of the Congenitally Blind Brain. *J Neuroscience*, 33(46): 18242-18246.
43. Klein D, Mok K, Chen J-K & **Watkins KE** (2014) Age of language learning shapes brain structure: A cortical thickness study of bilingual and monolingual individuals. *Brain Lang.* 131: 20-24.
44. Connally EL, Ward D, Howell P & **Watkins KE** (2014) Disrupted white matter in language and motor tracts in developmental stuttering. *Brain Lang.* 131: 25-35.
45. Swaminathan S, MacSweeney M, Boyles R, Waters D, **Watkins KE**, Möttönen R (2013) Motor excitability during visual perception of known and unknown spoken languages. *Brain Lang.* 126: 1-7.
46. Möttönen R, Dutton R & **Watkins KE** (2013) Auditory-motor processing of speech sounds. *Cerebral Cortex* 23(5): 1190-1197.
47. Brittain J-S, **Watkins KE**, Joundi R, Ray N, Holland P, Green A, Aziz T & Jenkinson N. (2012) A role for the subthalamic nucleus in response inhibition during conflict. *J Neuroscience* 32(39): 13396-13401.
48. Bridge H, Ragge N, Jenkinson N, Cowey A & **Watkins KE** (2012) The fate of the oculomotor system in clinical bilateral anophthalmia. *Visual Neuroscience* 29 (3): 193-202.

49. **Watkins KE**, Cowey A, Alexander I, Fillipini N, Kennedy J, Smith S, Ragge N and Bridge H (2012) Language networks in anophthalmia: maintained hierarchy of processing in 'visual' cortex. *Brain* 135(5): 1566 - 1577.
50. Sutherland ME, Zatorre RJ, **Watkins KE**, Hervé P-Y, Leonard G, Pike BG, Witton C, Paus T (2012) Anatomical correlates of dynamic auditory processing: Relationship to literacy during early adolescence. *NeuroImage* 60(2): 1287-1295.
51. Badcock NA, Bishop DV, Hardiman MJ, Barry JG, **Watkins KE** (2012) Co-localisation of abnormal brain structure and function in specific language impairment. *Brain Lang.* 120: 310-320.
52. Möttönen R & **Watkins KE** (2012) Using TMS to study the role of the articulatory motor system in speech perception. *Aphasiology* 26 (9): 1103-1118.
53. Chen JL, Rae C & **Watkins KE** (2012) Learning to play a melody: an fMRI study examining the formation of auditory-motor associations. *NeuroImage* 59(2): 1200-1208.
54. **Watkins KE** (2011) Developmental disorders of speech and language: from genes to brain structure and function. *Progress in Brain Research* 189: 225-238.
55. Möttönen R, Farmer H, **Watkins KE** (2010) Lateralization of motor excitability during observation of bimanual signs. *Neuropsychologia* 48(10): 3173-3177.
56. Giorgio A, **Watkins KE**, Chadwick M, James S, Winmill L, Douaud G, De Stefano N, Matthews PM, Smith SM, Johansen-Berg H, James AC (2010) Longitudinal changes in grey and white matter during adolescence. *NeuroImage* 49(1):94-103.
57. Johansen-Berg H, Behrens TEJ, Jbabdi S, **Watkins KE** (2009) Integration of measures of functional and structural MRI. *NeuroMethods* 41: 785-809.
58. Bridge H, Cowey A, Ragge N, **Watkins KE** (2009) Imaging studies in congenital anophthalmia reveal preservation of brain architecture in 'visual' cortex. *Brain* 132(12):3467-3480.
59. Möttönen R & **Watkins KE** (2009) Motor representations of articulators contribute to categorical perception of speech sounds. *J Neurosci* 29(31):9819-25.
60. Smith SM, Fox PT, Miller KL, Glahn DC, Fox PM, Mackay CE, Filippini N, **Watkins KE**, Toro R, Laird AM, Beckmann CF (2009) Correspondence of the brain's functional architecture during activation and rest. *Proc Natl Acad Sci* 106(31):13040-5.
61. Stoeckl MC, Gough PM, **Watkins KE**, Devlin JT (2009) Supramarginal gyrus involvement in visual word recognition. *Cortex* 45(9): 1091-6.
62. **Watkins KE**, Smith SM, Davis S, Howell P (2008) Structural and functional abnormalities of the motor system in developmental stuttering. *Brain* 131(Pt 1): 50-59.
63. Giorgio A, **Watkins KE**, Douaud G, James AC, James S, De Stefano N, Matthews PM, Smith AM, Johansen-Berg H (2008) Changes in white matter microstructure during adolescence. *NeuroImage* 39: 52-61.
64. Rauschecker AM, Pringle A, **Watkins KE** (2008) Changes in neural activity associated with learning to articulate novel auditory pseudowords by covert repetition. *Human Brain Mapping* 29(11): 1231-42.
65. Iaria G, Committeri G, Pastorelli C, Pizzamiglio L, **Watkins KE** & Carota A (2008) Neural activity of the anterior insula in emotional processing depends on the individuals' emotional susceptibility. *Human Brain Mapping* 29(3): 363-73.
66. Douaud G, Smith S, Jenkinson M, Vickers J, Johansen-Berg H, Behrens T, **Watkins K**, James S, Voets N, Matthews PM, James A. (2007) Anatomically-related grey and white matter abnormalities in adolescent-onset schizophrenia. *Brain* 130(Pt 9): 2375-86.
67. Pausova Z, Paus T, Abrahamowicz M, Almerigi J, Arbour N, Bernard M, Gaudet D, Hanzalek P, Hamet P, Evans AC, Kramer M, Laberge L, Leal S, Leonard G, Lerner J, Lerner RM, Mathieu J, Perron M, Pike B, Pitiot A, Richer L, Seguin JR, Syme C, Toro R, Tremblay RE, Veillette S, **Watkins K** (2007) Genes, Maternal Smoking and the Offspring Brain and Body during Adolescence: Design of The Saguenay Youth Study. *Human Brain Mapping* 28(6): 502-518.
68. Devlin JT & **Watkins KE** (2007) Stimulating language: insights from TMS. *Brain* 130(3): 610-622.
69. Smith SM, Jenkinson M, Johansen-Berg H, Rueckert D, Nichols TE, Mackay CE, **Watkins KE**, Ciccarelli O, Cader MZ, Matthews PM, Behrens TE (2006) Tract-based spatial statistics: Voxelwise analysis of multi-subject diffusion data. *Neuroimage* 31(4): 1487-1505.

70. Dorsaint-Pierre R, Penhune VB, **Watkins KE**, Neelin P, Lerch JP, Bouffard M & Zatorre RJ (2006) Asymmetries of the planum temporale and Heschl's gyrus: Relationship to language lateralization. *Brain* 129: 1164-1176
71. Jamison HL, **Watkins KE**, Bishop DVM & Matthews PM. (2006) Hemispheric specialisation for processing auditory non-speech stimuli. *Cerebral Cortex* 16(9): 1266-1275.
72. Klein D, **Watkins KE**, Zatorre RJ & Milner B (2005). Word and nonword repetition in bilingual subjects: A PET study. *Hum Brain Mapp* 27(2):153-161.
73. Jansen AC, Leonard G, Bastos AC, Eposito-Festen JE, Tampieri D, **Watkins K**, Andermann F & Andermann E (2005) Cognitive functioning in bilateral perisylvian polymicrogyria (BPP): Clinical and radiological correlations. *Epilepsy & Behavior* 6(3): 393-404.
74. **Watkins KE** & Paus T (2004) Modulation of motor excitability during speech perception: the role of Broca's area. *Journal of Cognitive Neuroscience* 16(6): 978-987.
75. Isaacs EB, Vargha-Khadem F, **Watkins KE**, Lucas A, Mishkin M & Gadian DG (2003) Developmental amnesia and its relationship to degree of hippocampal atrophy. *PNAS* 100: 13060-13063.
76. Vargha-Khadem F, Salmond CH, **Watkins KE**, Friston KJ, Gadian DG & Mishkin M. (2003) Developmental amnesia: effect of age at injury. *PNAS* 100: 10055-10060.
77. **Watkins KE**, Strafella AP & Paus T (2003) Seeing and hearing speech excites the motor system involved in speech production. *Neuropsychologia* 41: 989-994.
78. Belton E, Salmond CH, **Watkins KE**, Vargha-Khadem F & Gadian DG (2003) Bilateral brain abnormalities associated with dominantly inherited verbal and orofacial dyspraxia. *Human Brain Mapping* 18: 194-200.
79. **Watkins KE**, Dronkers NF & Vargha-Khadem F (2002) Behavioural analysis of an inherited speech and language disorder: comparison with acquired aphasia. *Brain* 125: 454-464.
80. **Watkins KE**, Vargha-Khadem F, Ashburner J, Passingham RE, Friston KJ, Connelly A, Frackowiak RSJ, Mishkin M & Gadian DG (2002) MRI analysis of an inherited speech and language disorder: structural brain abnormalities. *Brain* 125: 465-478.
81. **Watkins KE**, Paus T, Lerch JP, Zijdenbos A, Collins DL, Neelin P, Worsley KJ & Evans AC (2001) Structural asymmetries in the human brain: a voxel-based statistical analysis of 142 MRI scans. *Cerebral Cortex* 11: 868-877. [awarded the Brain Star, Canadian Institutes of Health Research]
82. Alcock KJ, Passingham RE, **Watkins KE** & Vargha-Khadem F (2000) Oral dyspraxia in inherited speech and language impairment and acquired dysphasia. *Brain Lang* 75: 17-33.
83. Alcock KJ, Passingham RE, **Watkins KE** & Vargha-Khadem F (2000) Pitch and timing abilities in inherited speech and language impairment. *Brain Lang* 75: 34-46.
84. Gadian DG, Aicardi J, **Watkins KE**, Porter DA, Mishkin M & Vargha-Khadem F (2000) Developmental amnesia associated with early hypoxic-ischaemic injury. *Brain* 123: 499-507.
85. **Watkins KE**, Gadian DG & Vargha-Khadem F (1999) Functional and structural brain abnormalities associated with a genetic disorder of speech and language. *Am. J. Hum. Genet.* 65(5): 1215-1222.
86. **Watkins KE**, Hewes DKM, Connelly A, Kendall BE, Kingsley DPE, Evans JEP, Gadian DG, Vargha-Khadem F & Kirkham FJ. (1998) Cognitive deficits associated with frontal lobe infarction in sickle cell disease. *Dev. Med. & Child Neurol.* 40: 536-543.
87. Vargha-Khadem F, **Watkins KE**, Price CJ, Ashburner J, Friston KJ, Frackowiak RSJ, Mishkin M, Gadian DG & Passingham RE (1998) Neural basis of an inherited speech and language disorder. *Proc. Natl. Acad. Sci. USA* 95: 12695-12700.
88. Fisher SE, Vargha-Khadem F, **Watkins KE**, Monaco AP & Pembrey ME (1998) Localisation of a gene implicated in a severe speech and language disorder. *Nature Genetics* 18: 168-170.
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