

Katherine E. Twomey
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Employment

Sep 2017 – present Lecturer in Language and Communicative Development
Division of Human Communication, Development and Hearing, University of Manchester, UK

Oct 2016 – Sep 2018 ESRC Future Research Leaders Fellow
Fellowship held at University of Manchester from September 2017

Oct 2014 - Sep 2017 Senior Research Associate, ESRC International Centre for Language and Communicative Development (LuCiD)
Department of Psychology, Lancaster University, UK

Oct 2012 - Sep 2014 Postdoctoral Research Associate
Department of Psychological Sciences, University of Liverpool, UK

Education

2012 PhD Psychology, University of Sussex, UK

2009 MRes Psychological Methods (Distinction), University of Sussex, UK

2008 BA(Hons) English Language (First class), University of Sussex, UK

Teaching qualifications

2017 Associate Fellow of the Higher Education Academy

Funding and other awards

2018 ESRC International Centre for Language and Communicative Development (LuCiD) Transition funding (Co-I: ES/S007113/1; £6.2m)

2018 ESRC LuCiD Summer Internship (£1,200; intern: Elizabeth Green; with Dr. Alissa Ferry)

2017 ESRC LuCiD Summer Internship (£1,200; intern: Charlotte Rothwell; with Dr. Katie Alcock and Dr. Rebecca Frost)

2016 ESRC Future Research Leaders Fellowship (PI; ES/N01703X/1; £180,663). Project: *Understanding infants' curiosity-based exploration*.

2015 BA/Leverhulme Small Research Grant (PI; SG101566; £9,554). Project: *Curiosity-based learning: An empirical view*

2015 Best Paper: *A neural network model of curiosity-driven infant categorization*. Fifth Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics, Brown University, Providence, USA

2015 ESRC LuCiD Summer Internship (£1,200; intern: Ben Malem)

2012 Rumelhart Memorial Travel Award 13th Neural Computation and Psychology Workshop, Basque Center on Cognition Brain & Language, Spain (€250)

2012 Grindley Grant, Experimental Psychology Society, UK (£500)

2011 EUCogII Research Visit Sponsorship, Centre for Robotics and Neural Systems, University of Plymouth, UK (RV-008 2011; €1,700)

2011 ESRC Overseas Institutional Visit Grant, DeLTA Center, University of Iowa, USA (EH/H014942/1; £1,200)

2011 Marie Curie Travel Bursary, RobotDoc 2011 Interdisciplinary Methods Spring School, Institute for Advanced Study, Budapest, Hungary (£500)

2010 National Science Foundation, USA, Summer School Fellowship, Dynamic Field Theory Summer School, University of Iowa, USA (\$500)

2009 ESRC +3 award (ES/H014942/1; £13,200p.a.) Thesis: *An Investigation of Fast and Slow Mapping*.

- 2009 ESRC Advanced Quantitative Methods stipend (ES/H014942/1; £3,000p.a.)
- 2008 University of Sussex Linguistics and English Language prize for highest-graded dissertation (£100)
Dissertation: *To get or to be? A corpus study of the English passive auxiliary.*

Peer-reviewed publications

- Horst, J. S., **Twomey, K. E.**, Morse, A. F., Nurse, R. & Cangelosi, A. (in press). When object color is a red herring: Extraneous perceptual information hinders word learning via referent selection. *IEEE Transactions on Cognitive and Developmental Systems*
- Twomey, K. E.** & Westermann, G. (2018). Labels shape pre-speech infants' object representations. *Infancy*. doi: 10.1111/infa.12201
- Twomey, K. E.**, & Westermann, G. (2017). Curiosity-based learning in infants: A neurocomputational approach. *Developmental Science*. doi: 10.1111/desc.12629
- Twomey, K. E.**, Ma, L. & Westermann, G. (2017). All the right noises: Background variability helps early word learning. *Cognitive Science*. doi: 10.1111/cogs.12539
- Twomey, K. E.**, Chang, F. & Ambridge, B. (2016). Lexical distributional cues, but not situational cues, are used to learn locative verb-structure associations. *Cognition*, 153, 124-139. doi: 10.1016/j.cognition.2016.05.001
- Twomey, K. E.**, Morse, A. F., Cangelosi, A. & Horst, J. S. (2016). Children's referent selection and word learning: Insights from a developmental robotic system. *Interaction Studies*, 17(1), 93-111. doi: 10.1075/is.17.1.05two
- Thill, S., & **Twomey, K. E.** (2016). What's on the inside counts: A grounded account of concept acquisition and development. *Frontiers in Psychology (Cognition)*, 7, 402. doi: 10.3389/fpsyg.2016.00402
- Ambridge, B., Bidgood, A., **Twomey, K. E.**, Pine, J., Rowland, C. F., & Freudenthal, D. (2015). Preemption versus Entrenchment: Towards a construction-general solution to the problem of the retreat from verb argument structure overgeneralization. *PLoS ONE*, e0123723. doi: 10.1371/journal.pone.0123723.
- Twomey, K. E.**, Chang, F., & Ambridge, B. (2014). Do as I say, not as I do: A lexical distributional account of English locative verb class acquisition. *Cognitive Psychology*, 73, 41-71. doi: 10.1016/j.cogpsych.2014.05.001.
- Twomey, K. E.**, Lush, L., Pearce, R., & Horst, J. S., (2014). Visual variability affects early verb learning. *British Journal of Developmental Psychology*, 32(3). doi: 10.1111/bjdp.12042
- Twomey, K. E.**, Ranson, S. L., & Horst, J. S. (2014). That's more like it: Multiple exemplars facilitate word learning. *Infant & Child Development*, 23(2). doi: 10.1002/icd.1824
- Horst, J. S. & **Twomey, K. E.** (2012). It's taking shape: Shared object features influence novel noun generalizations. *Infant & Child Development*, 22(1). doi: 10.1002/icd.1768

Submitted publications

- Ishibashi, M., **Twomey, K. E.**, Westermann, G. & Uehara, I. (under review, *Developmental Science*). Cross-cultural differences in the relationship between children's scale errors and category learning.
- Polišenská, K., Chiat, S., Szewczyk, J., & **Twomey, K. E.** (under review, *Journal of Child Language*). Effects of semantic plausibility, syntactic complexity and n-gram frequency on children's sentence repetition
- Capelier-Mourguy, A., **Twomey, K. E.**, & Westermann, G. (under review; *IEEE Transactions on Cognitive and Developmental Systems*). Neurocomputational models capture the effects of learned labels on infants' object and category representations.
- Taxitari, L., **Twomey, K. E.**, Westermann, G., & Mani, N. (under review; *Language Learning and Development*). Only cows and horses: The limits of infants' early word learning.
- Hilton, M., **Twomey, K. E.**, & Westermann, G. (under review; *Journal of Experimental Child Psychology*). Eye movements during the learning of novel word-object mappings in shy and less-shy children.

Conference proceedings

- Twomey, K. E.**, Ma, L. & Westermann, G. (2017). Extraneous visual noise facilitates word learning. In Gunzelmann, G., Howes, A., Tenbrink, T., & Davelaar, E. (Eds.) (2017). *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. London, UK: Cognitive Science Society.
- Twomey, K. E.**, & Westermann, G. (2016). A learned label modulates object representations in 10-month-old infants. In Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.) (2016). *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

- Capelier-Mourguy, A., **Twomey, K. E.**, & Westermann, G. (2016). New light on the status of labels. In Papafragou, A., Grodner, D., Mirman, D., & Trueswell, J.C. (Eds.) (2016). *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Twomey, K. E.**, Morse, A. F., Cangelosi, A., & Horst, J. S. (2016). Competition affects word learning in a developmental robotic system. In G. Westermann, P. Monaghan, K. E. Twomey & A. Smith (Eds.), *Proceedings of the 14th Neural Computation and Psychology Workshop (NCPW14)*. World Scientific.
- Twomey, K. E.** & Westermann, G. (2015). A neural network model of curiosity-driven infant categorization. In *Proceedings of the Fifth Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics*. Brown University, Providence, Rhode Island, USA
- Twomey, K. E.**, Chang, F., & Ambridge, B. (2013). A distributional learning account of the acquisition of the locative alternation: Corpus analysis and modeling. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.). *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Horst, J. S & **Twomey, K. E.** (2013). Encountering multiple exemplars during fast mapping facilitates word learning. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Twomey, K. E.** & Horst, J. S. (2013) Testing a Dynamic Neural Field model of children's category labeling. In J. Mayor, P. Gómez & P. Kuszelewski (Eds.), *Computational Models of Cognitive Processes: Proceedings of the 13th Neural Computation and Psychology Workshop (NCPW13)*. World Scientific.
- Twomey, K. E.** & Horst, J. S. (2011). All things considered: Dynamic Field Theory captures effect of categories on children's word learning. In Guerin, F., Alexander, J. and Quinlan, P. (Eds.). *Proceedings of the 2011 Society of Artificial Intelligence and the Simulation of Behaviour Convention*.

Edited volumes

- Twomey, K. E.**, Smith, A., Monaghan, P. & Westermann, G. (2016). *Neurocomputational Models of Cognitive Development and Processing: Proceedings of the 14th Neural Computation and Psychology Workshop (NCPW)*. World Scientific. *Trends in Psychology and Artificial Intelligence*. Hershey, PA: Information Science Reference.

Book chapters

- Twomey, K. E.** & Westermann, G. (under review; *Encyclopaedia of Infant and Early Childhood Development*). Curiosity and Attention.
- Twomey, K. E.** & Hilton, M. (under review, *Encyclopaedia of Child and Adolescent Development*). Word Learning.
- Westermann, G. & **Twomey, K. E.** (2018). Computational models of word learning. In Westermann, G. and Mani, N. (eds.) *Early Word Learning*. Routledge.
- Twomey, K. E.**, Horst, J. S., & Morse, A. F. (2013). An embodied model of young children's categorization and word learning. In L. Gogate, & G. Hollich (Eds.), *Theoretical and Computational Models of Word Learning: Trends in Psychology and Artificial Intelligence*. Hershey, PA: IGI Global.

Book reviews

- Twomey, K. E.** (2016). Book review: The Handbook of Language Emergence. *First Language*. doi: 10.1177/0142723716640929

Symposia chaired

- Twomey, K. E.**, Westermann, G., Oudeyer, P.-Y., & Yu, C. (2016, May) *Understanding infants' curiosity-based learning: empirical and computational approaches*. Symposium presented at the XX Biennial International Conference on Infant Studies New Orleans, LA, USA.

Invited talks and symposia

- Twomey, K. E.** & Cangelosi, A. (2018, July). Modeling Cognitive Mechanisms in an Embodied System. European Society for Cognitive and Affective Neuroscience, Leiden, Netherlands. DOI: 10.13140/RG.2.2.22687.66720

- Twomey, K. E.** (2017, November). *New Insights into Curiosity-Driven Category Learning*. ESRC International Centre for Language and Communicative Development (LuCiD) seminar series
- Twomey, K. E.** (2017, March). *Background Variability Supports Early Noun Learning*. Cognitive Linguistics Research Group, Department of Linguistics, Lancaster University
- Twomey, K. E.**, Morse, A. F., Cangelosi, A., & Horst, J. S. (2016, September). *How context affects early language acquisition: An embodied model of early referent selection and word learning*. Poster presented at the 2016 IEEE ICDL-EPIROB Workshop on Language Learning, Cergy-Pontoise, France.
- Twomey, K. E.**, Morse, A. F., Cangelosi, A., & Horst, J. S. (2014, September). *Competition Affects Word Learning in a Developmental Robotic System*. Mother and Child Interaction Group, University of Liverpool.
- Twomey, K. E.**, Chang, F., Horst, J. S., & Ambridge, B. (2013, March). *A Tale of Two Models*. Department of Psychological Sciences, Birkbeck, University of London.
- Twomey, K. E.** (2011, December). *Neural Network Models of Cognitive Development*. Centre for Robotics and Neural Systems, University of Plymouth.
- Twomey, K. E.** (2010, November). *A DFT Model of Children's Word Learning and Categorization*. Centre for Robotics and Neural Systems, University of Plymouth.

Papers presented

- Durrant, S., **Twomey, K. E.**, Peter, M., Bidgood, A., Pine, J., & Rowland, C. (2018, July). *Individual differences in word learning and their relationship to language development*. Paper presented at the 4th Annual Conference of the ESRC International Centre for Language and Communicative Development, Liverpool, UK.
- Keating, L., Hartley, C., **Twomey, K. E.** & Monaghan, P. (2018, July). *The role of shape bias in online and offline categorisation in atypical development*. Paper presented at the 4th Annual Conference of the ESRC International Centre for Language and Communicative Development, Liverpool, UK.
- Ke, H., Westermann, G., & **Twomey, K. E.** (2018, June). *New evidence for systematicity in infants' curiosity-driven learning*. In Eiterjoerge, S. (chair) Using Innovative Methods to Understand Infants' Curiosity-Driven Learning. Symposium presented at the XXI International Conference on Infant Studies, Philadelphia, PA, USA.
- Twomey, K. E.**, Ma, S. & Westermann, G. (2017, July). *The importance of nonlinguistic variability to early language learning: The case of colour*. Paper presented at the 3rd Annual Conference of the ESRC International Centre for Language and Communicative Development, Lancaster, UK.
- Capelier-Mourguy, **Twomey, K. E.** & Westermann, G. (2017, August). *How to model the effect of adding a label when learning (counter-intuitive) categories?* Paper presented at the 2nd Lancaster Conference on Infant & Child Development, Lancaster, UK.
- Twomey, K. E.** & Westermann, G. (2016, August). *Learned labels shape prelinguistic infants' object representations*. Paper presented at the 1st Lancaster Conference on Infant & Child Development, Lancaster, UK.
- Hilton, M., **Twomey, K. E.** and Westermann, G. (2016, August). *FaceTime: Shy children's increased attention to faces and its effect on word learning*. Paper presented at the 1st Lancaster Conference on Infant & Child Development, Lancaster, UK.
- Horst, J. S., **Twomey, K. E.**, Morse, A., Nurse, R., & Cangelosi, A. (2016, August). *Toddlers and robots learn more object names when everything they see together is the same colour*. Paper presented at the 1st Lancaster Conference on Infant & Child Development, Lancaster, UK.
- Twomey, K. E.**, Malem, B. & Westermann, G. (2016, May). *Infants' information seeking in a category learning task*. In Twomey, K. E., (chair) Understanding Infants' Curiosity-Based Learning: Empirical and Computational Approaches. Symposium presented at the XX Biennial International Conference on Infant Studies, New Orleans, LA, USA.
- Westermann, G. & **Twomey, K. E.** (2016, May). *A computational model of infants' curiosity-based learning*. In Twomey, K. E., (chair) Understanding Infants' Curiosity-Based Learning: Empirical and Computational Approaches. Symposium presented at the XX Biennial International Conference on Infant Studies, New Orleans, LA, USA.
- Hilton, M., **Twomey, K. E.**, & Westermann, G. (2016, May). *Caregivers as experimenters: Reducing unfamiliarity helps shy children learn words*. Paper presented at the XX Biennial International Conference on Infant Studies, New Orleans, LA, USA.
- Twomey, K. E.**, & Westermann, G. (2015, October). *Computational explorations of curiosity*. Paper presented at the First Meeting of the ESRC International Centre for Language and Communicative Development, Liverpool, UK.
- Hilton, M., **Twomey, K. E.** & Westermann, G. *Investigating the link between shyness and early word learning*.

- (2015, September). Paper presented at the British Psychological Society Developmental and Social Section Annual Conference, Manchester, UK.
- Twomey, K. E., & Westermann, G.** (2015, September). *Curiosity optimises learning in a simulated infant categorisation task*. Paper presented at the British Psychological Society Developmental and Social Section Annual Conference, Manchester, UK.
- Twomey, K. E., & Westermann, G.** (2015, August). *A neural network model of curiosity-driven infant categorization*. Paper presented at the Fifth Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics, Brown University, Providence, Rhode Island, USA.
- Westermann, G., & **Twomey, K. E.,** (2014, November). *Some thoughts on curiosity in infants and neural network models*. Paper presented at the 1st Interdisciplinary Symposium on Information-Seeking, Curiosity and Attention, Inria Bordeaux Sud-Ouest, France.
- Twomey, K. E.,** Morse, A. F., Cangelosi, A. & Horst, J. S. (2014, August). *Competition affects word learning in a developmental robotic system*. Paper presented at the 14th Neural Computation and Psychology Workshop, Lancaster University, Lancaster, UK.
- Morse, A. F., **Twomey, K. E.,** Horst, J. S. & Cangelosi, A. (2014, August). *The development of language in children and robots*. Paper presented at the 14th Neural Computation and Psychology Workshop, Lancaster University, Lancaster, UK.
- Twomey, K. E.,** Chang, F. & Ambridge, B. (2013, August). *A distributional learning account of the acquisition of the locative alternation: Corpus analysis and modeling*. Paper presented at the 35th Annual Conference of the Cognitive Science Society. Berlin, Germany.
- Twomey, K. E & Chang, F.** (2013, June). *A distributional account of children's acquisition of the locative construction: Corpus and computational evidence*. Paper presented at the 2013 Child Language Seminar. Manchester, UK.
- Twomey, K. E** (2012, July). *Testing a Dynamic Neural Field model of infant categorization*. Paper presented at the 13th Neural Computation and Psychology Workshop, Basque Center on Cognition, Brain & Language. Donostia, Spain.
- Twomey, K. E. & Horst, J. S.** (2011, April). *All things considered: Dynamic Field Theory captures effect of categories on children's word learning*. In Guerin, F., Alexander, J. and Quinlan, P., Computational Models of Cognitive Development. Symposium presented at the 2011 Society of Artificial Intelligence and the Simulation of Behaviour Convention. York, UK.
- Horst, J. S., **Twomey, K. E.,** & Fine, P. A. (2010, Mar). *Quantifying children's manual touching behaviors in a variety of tasks*. In Perry, L. K. (chair) Knowledge at Hand: What Manual Exploration Can Tell Us About Developmental Process. Symposium presented at the 2010 Biennial Meeting of the International Society for Infant Studies. Baltimore, MD, USA.

Posters presented

- Ma, L., **Twomey, K. E.** & Westermann, G. (forthcoming; 2019, March). *Asymmetric Emotion Perception in Toddlers' Word Learning: Evidence for a Negativity Bias*. Poster to be presented at the 2019 International Convention of Psychological Science (ICPS), Paris, France.
- Ma, L., **Twomey, K. E.** & Westermann, G. (2018, September). *How perceived emotions affect toddlers' word learning*. Poster presented at the 4th Lancaster Conference on Infant and Early Child Development, Lancaster, UK.
- Ishibashi, M., **Twomey, K. E.,** Westermann, G. (2018, September). The relationship between children's scale errors and categorization. Poster presented at the *British Psychological Society Developmental Section Annual Conference*, Liverpool, UK.
- Loucaides, M., Westermann, G. & **Twomey, K. E.** (2018, June). *The effect of labeling on infants' novel object exploration*. Poster presented at the XXI Biennial International Congress on Infant Studies, Philadelphia, PA, USA.
- Twomey, K. E.,** Ke, H., & Westermann, G. (2018, June). *Infants generate structured learning environments during curiosity-driven category exploration*. Poster presented at *Expanding the Field 2018: Multidisciplinary Developmental Dynamics Workshop*, University of East Anglia, Norwich, UK.
- Ke, H., Malem, B., Westermann, G. & **Twomey, K. E.** (2018, January). *New evidence for systematicity in infants' curiosity-driven learning*. Poster presented at the 2018 Budapest CEU Conference on Cognitive Development, Central European University, Budapest, Hungary.
- Keating, L. & **Twomey, K. E.** (2017, December). *A closer look at the shape bias*. Poster presented at the Lancaster University 2017 Christmas Conference, Lancaster, UK.

- Hilton, M., **Twomey, K. E.**, & Westermann, G. (2017, September). *Using eye-tracking to investigate individual differences in word learning*. Poster presented at Fokustreffen: Eye Tracking. In der Forschung mit Kindern aus psychologischer und pädagogischer Perspektive, Universität Leipzig.
- Twomey, K. E.**, Rothwell, C., Hart, E., & Westermann, G. (2017, August). *Learned labels increase similarity in 10-month-old infants' category representations*. Poster presented at the 2nd Lancaster Conference on Infant and Early Child Development, Lancaster, UK.
- Loucaides, M., **Twomey, K. E.**, & Westermann, G. (2017, August). *The effect of labelling on infants' object exploration*. Poster presented at the 2nd Lancaster Conference on Infant and Early Child Development, Lancaster, UK.
- Capelier-Mourguy, A., **Twomey, K. E.**, & Westermann, G. (2017, August). Categories with divergent feature diagnosticity and salience: How a label helps. Poster presented at the 2nd Lancaster Conference on Infant and Early Child Development, Lancaster, UK.
- Twomey, K. E.**, Ma, L. & Westermann, G (2017, July). *Visual variability supports word learning*. Poster presented at the 39th Annual Meeting of the Cognitive Science Society, London, UK.
- Twomey, K. E.**, Ma, L. & Westermann, G (2017, July). *Extraneous variability supports early noun learning*. Poster presented at the 14th International Congress for the Study of Child Language, Lyon, France.
- Capelier-Mourguy, A., **Twomey, K. E.**, & Westermann, G. (2017, April). The effect of a learned label on infants' object representations: A neurocomputational study. Poster presented at the 2017 Biennial Meeting of the Society for Research in Child Development, Austin, TX, USA.
- Loucaides, M., **Twomey, K. E.**, & Westermann, G. (2016, August). *The effect of labelling on infants' object exploration*. Poster presented at the 1st Lancaster Conference on Infant & Child Development, Lancaster, UK.
- Twomey, K. E.**, & Westermann, G. (2016, August). *A learned label modulates object representations in 10-month-old infants*. Poster presented at the 38th Annual Meeting of the Cognitive Science Society, Philadelphia, PA, USA.
- Capelier-Mourguy, A., **Twomey, K. E.**, & Westermann, G. (2016, August). *New light on the status of labels*. Poster presented at the 38th Annual Meeting of the Cognitive Science Society, Philadelphia, PA, USA.
- Capelier-Mourguy, A., **Twomey, K. E.**, Kovic, V., & Westermann, G. (2016, August). *Categories with mismatching feature saliency and diagnosticity: How a label helps learning*. Poster presented at the 15th Neural Computation and Psychology Workshop, Philadelphia, PA, USA.
- Ma, S., **Twomey, K. E.**, & Westermann, G. (2016, May). *The effect of background variability on referent selection in fast mapping tasks: Evidence from eye movements*. Poster presented at the XX Biennial International Conference on Infant Studies, New Orleans, LA, USA.
- Hilton, M., **Twomey, K. E.**, & Westermann, G. (2015, March). *Shyness affects word learning: Evidence from eye tracking*. Poster presented at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA, USA.
- Twomey, K. E.**, Lush, L., Pearce, R., & Horst, J. S. (2013, September). *Twinkle, twinkle little star: Exemplar variability affects early verb learning*. Poster presented at the 1st Joint Annual Conference of the British Psychological Society Developmental and Cognitive Sections, Reading, UK.
- Horst, J. S & **Twomey, K. E.** (2013, August). *Encountering multiple exemplars during fast mapping facilitates word learning*. Poster presented at the 35th Annual Conference of the Cognitive Science Society, Berlin, Germany.
- Twomey, K. E.** & Horst, J. S. (2011, January). *More than meets the eye: How category structure affects infants' word learning*. Poster presented at the 2011 Budapest Conference on Cognitive Development, Budapest, Hungary.
- Twomey, K. E.** & Horst, J. S. (2010, September). *Variable exemplars facilitate word learning via fast mapping*. Poster presented at the British Psychological Society Developmental Section, London, UK.
- Twomey, K. E.** & Horst, J. S. (2010, March). *Variable exemplars facilitate word learning*. Poster presented at the 2010 Biennial Meeting of the International Society of Infant Studies, Baltimore, MD, USA.
- Horst, J. S. & **Twomey, K. E.** (2010, March). *Why ostensive naming facilitates word learning via fast mapping*. Poster presented at the 2010 biennial meeting of the International Society of Infant Studies, Baltimore, MD, USA.
- Twomey, K. E.** & Horst, J. S. (2010, March). *How multiple exemplars facilitate word learning*. Poster presented at the 2010 PsyLing SE conference, University College, London, UK.
- Twomey, K. E.** & Horst, J. S. (2009, September). *It's taking shape: Preschool children's awareness of their own naming biases*. Poster presented at the British Psychological Society Developmental Section, Nottingham, UK.

Teaching

2017 onwards	Lecturer: <i>Advanced Study Option</i> (Y4); <i>Clinical Linguistics II</i> (Y3); <i>Language Processing</i> (Y2); <i>Linguistics, Phonetics and Language Development</i> (Y1); Academic Advisor (15 students) University of Manchester, BSc. (Hons) Speech and Language Therapy
Autumn 2016	Sessional lecturer, <i>Psycholinguistics</i> Lancaster University, BA (Hons) Linguistics (Y3)
Autumn 2016	Sessional lecturer, <i>Developmental Psychology</i> Lancaster University, MSc. Psychology
Spring 2016	Sessional lecturer, <i>Psycholinguistics</i> Lancaster University, BA (Hons) Linguistics (Y3)
Autumn 2015	Sessional lecturer, <i>Conducting and Presenting Psychological Research</i> Lancaster University, MSc. Psychology Sessional lecturer, <i>Developmental Psychology</i> Lancaster University, MSc. Psychology
Spring 2015	Guest lecturer, <i>Language and Thought</i> University of Liverpool, BSc. (Hons) Psychology (Y2)
Spring 2013, Spring 2014	Sessional lecturer, <i>Language and Thought</i> University of Liverpool, BSc. (Hons) Psychology (Y3), MPsych.
Spring 2013	Associate Tutor, <i>Developmental Psychology</i> University of Liverpool, BSc. (Hons) Psychology (Y3)
Autumn 2013	Sessional lecturer & Associate Tutor, <i>Learning to Communicate</i> University of Liverpool (Y3), BSc. (Hons) Psychology
Autumn 2011	Associate Tutor, <i>Dynamic Systems of Development</i> University of Sussex, BSc. (Hons) Psychology (Y3), MSc. Experimental Psychology
Spring/Summer 2010	Associate Tutor, <i>Developmental Psychology</i> University of Sussex, BA (Hons) Psychology (Y2)

Mentorship

April 2018 – present	Research Associate: Laura Boundy. Project: <i>Understanding infants' curiosity-driven exploration</i> (University of Manchester)
April 2017 – March 2018	Research Associate: Han Ke. Project: <i>Understanding infants' curiosity-driven exploration</i> (Lancaster University)

Student supervision

Aug 2015 – Sep 2015	LuCiD Summer internship: Elizabeth Green (University of Manchester)
Oct 2017 – Mar 2018	Y4 UG <i>Advanced Study Option</i> : Fatemah Patel, Katie Scott, Chelsie Gibson (University of Manchester)
Oct 2016 – Jun 2017	MSc Psychology: Mikako Ishibashi. Project: <i>Understanding the link between children's scale error and category understanding</i> . (Lancaster University; distinction awarded)
Oct 2015 – March 2016	MSc Psychology: Leigh Keating. Project: <i>Toddlers' label generalizations: Insights from eye movements</i> (Lancaster University; distinction awarded. Student now PhD candidate, Lancaster University)
Oct 2014 – March 2015	MSc Psychology: Lizhi Ma. Project: <i>Background variability supports word learning</i> (Lancaster University; distinction awarded. Student now PhD candidate, Lancaster University)
Feb 2016 – Jul 2016	UG internships: Elle Hart, Charlotte Rothwell (Lancaster University)
Aug 2015 – Sep 2015	LuCiD Summer internship: Ben Malem (Lancaster University; student now PhD candidate, Goettingen University)

Student co-supervision

From Oct 2019	PhD: Nicola Lester. <i>The role of cultural institutions in promoting language learning opportunities in minority populations</i> (ESRC 1+3 CASE studentship, University of Manchester, Division of Human Communication, Development & Hearing, with Prof. Anna Theakston)
Aug 2018 – present	PhD: Samuele Vinanzi. <i>Modelling the development of intention and goal reading in the iCub robot</i> (University of Manchester, School of Computer Science, with Prof. Angelo Cangelosi)
Oct 2017 - present	PhD: Leigh Keating. Project: <i>The role of young children's shape bias in online and offline generalisation in typical and atypical development</i> (Lancaster University, with Dr. Calum Hartley)
	PhD: Lizhi Ma. Project: <i>The effect of emotion on children's word learning</i> (Lancaster University, with Prof. Gert Westermann)
Oct 2016 – Jun 2017	UG: Liam Natrass. Project: <i>Understanding the relationship between concept grounding and lexical acquisition: A new CDI-based groundability index</i> . (Lancaster University; with Prof. Gert Westermann and Dr. Serge Thill)
	UG: Charlotte Rothwell. Project: <i>Does auditory noise help word learning?</i> (Lancaster University, with Prof. Padraic Monaghan; student now PhD candidate, Lancaster University)
Oct 2015 – present	PhD: Arthur Capelier-Mourguy. Project: <i>Developmental shifts in the role of labels in category learning: computational and empirical investigations</i> . (Lancaster University, with Prof. Gert Westermann)
	PhD: Marina Loucaides. Project: <i>An infant's-eye view of early word and object learning</i> . (Lancaster University, with Prof. Gert Westermann)
Oct 2014 – Sep 2015	PhD: Matt Hilton. Thesis: <i>Temperament and early word learning: The effect of shyness on referent selection and retention</i>
Oct 2013 – May 2014	3rd year BSc: Stacey George, Matthew Keyworth, Megan McCann, Sophie Owen, Leah Spinoza, Bethan Ward (University of Liverpool, with Dr. Franklin Chang)
Oct 2011 – May 2012	3 rd year BSc: Nicole Jones, Lucy Metcalfe. (University of Sussex, with Dr. Jessica Horst)
Oct 2010 – May 2011	3 rd year BSc: Ruth Pearce. (University of Sussex, with Dr. Jessica Horst)
Oct 1999 – May 2010	3 rd year BSc: Lauren Lush. (University of Sussex, with Dr. Jessica Horst)

Editorial experience

2017, September	Associate Editor, <i>7th Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics (ICDL-EPIROB 2017)</i>
2016 – present	Review editor, <i>Frontiers in Psychology (Cognitive Science)</i>

Ad-hoc reviews (journals, funding bodies)

- *Economic and Social Research Council* (2015, 2016, 2018)
- *Philosophical Transactions of the Royal Society B* (2018)
- *Language Learning & Development* (2018)
- *Deutsche Forschungsgemeinschaft/German Research Foundation* (2018)
- *Bilingualism: Language and Cognition* (2018)
- *Journal of Experimental Psychology – Learning, Memory and Cognition* (2018)
- *Psychological Review* (2017)
- *Leverhulme Trust* (2017)
- *Neuropsychologia* (2017)
- *Developmental Science* (2016, 2017)

- *Journal of Child Language* (2016, 2018)
- *Frontiers in Psychology (Cognition)* (2016)
- *Language Learning* (2015, 2016)
- *Journal of Experimental Child Psychology* (2013 - 2017)
- *Child Development* (2015)
- *Cognitive Science* (2015)
- *Cognitive Development* (2014)
- *Infant and Child Development* (2013)

Ad-hoc reviews (conferences)

- *Annual Meeting of the Cognitive Science Society (CogSci)* (2013 - 2018)
- *Child Language Seminar (CLS)* (2018)
- *Architectures and Mechanisms of Language Processing (AMLaP)* (2017)
- *Lancaster Conference on Infancy and Child Development (LCICD)* (2016, 2017)
- *Society for Research in Child Development (SRCD)* (2016)
- *Fifth Implicit Learning Seminar* (2016)
- *Neural Computation and Psychology Workshop (NCPW)* (2013, 2014)
- *Joint IEEE International Conference on Developmental Learning and Epigenetic Robotics (ICDL-EPIROB)* (2015 - 2018)

Memberships

- IEEE Cognitive and Developmental Sciences Technical Committee Developmental Psychology Task Force (2016-2018)
- EU Cognition II & III
- Cognitive Science Society
- Cognitive Development Society
- International Society on Infant Studies
- The Society for the Study of Artificial Intelligence and Simulation of Behaviour
- RobotDoc Collegium, Affiliate Member

Training

February 2018	<i>Enhancing Research Publications</i> . New Academics Program, University of Manchester
January 2018	<i>Introduction to the New Academics Program</i> . New Academics Program, University of Manchester <i>Recruiting Staff at Manchester</i> . University of Manchester <i>REE Workshop</i> . University of Manchester
November 2017	<i>Maximizing Grant Applications</i> . New Academics Program, University of Manchester
October 2017	<i>PGR Student Supervision: Viva Examination</i> . New Academics Program. University of Manchester
February 2017	<i>Equality and Diversity</i> . University of Manchester.
January 2017 – Jun 2017	<i>Introduction to Mentoring</i> . Lancaster University
January 2017	<i>PI Development Scheme</i> . Lancaster University
January 2017	<i>Engaging Parliament and Policymakers with Academic Research</i> . Lancaster University
January 2017	ESRC Media Training. Lancaster University
Summer 2016 – January 2017	<i>Supporting Learning Programme</i> . Lancaster University
July 2016	CHILDES / ELAN Workshop. LuCiD, Liverpool University

Public engagement / extra service

- Co-supervisor, Nuffield 6th Form Research Internships (June 2018; with Dr. Alissa Ferry)

- 1 episode BBC2 series (to air Autumn 2018). *The Wonderful World of Babies*.
- Programme Committee, Child Language Seminar (2017, 2018)
- Presenter, ESRC Staff Seminar (November 2017)
- Presenter, ESRC Festival of Social Science, University of Liverpool (November 2017)
- Presenter, Lancaster University Community Day (May 2017)
- Linking Research and Practice Group, LuCiD (ongoing)
- Organising committee, 2nd Lancaster International Conference on Infancy and Early Development (August 2017)
- Presenter, Runshaw College Psychology outreach event (November 2016)
- Blogs: The Curiosity Project (wp.lancs.ac.uk/curiosity/); LuCiD (www.lucid.ac.uk); Lancaster Cognitive Development Lab (wp.lancs.ac.uk/westermann-lab/)
- Presenter, Lancaster Babylab/LuCiD (<http://campusinthecity.com/>; May 2016)
- Programme Committee, Fifth Implicit Learning Seminar, Lancaster University, UK (July 2016)
- Presenter, Lancaster University Open Days (July 2015, March 2016)
- Exhibitor, ESRC Festival of Social Science (<http://www.lucid.ac.uk/news-and-events/news/lucid-takes-over-the-manchester-museum/>; November 2015)
- Online webchat, *I'm a Scientist, Get Me Out Of Here!* (<https://nappysciencegang.wordpress.com/2015/11/06/live-chat-with-babylab-language-researchers-katie-and-silke/>; November 2015)
- *Word for Word*; word learning article for early years practitioners, *Nursery World* magazine (second author; July 2015)
- Organiser, Lancaster Babylab/ESRC International Centre for Language and Communicative Development at Lancaster University Campus in the City (<http://campusinthecity.com/>; April 2015)
- Knowledge Exchange Committee, ESRC International Centre for Language and Communicative Development (Oct 2015 – present)
- Organising committee, 14th Neural Computation and Psychology Workshop, Lancaster University, UK (July 2014)
- STEM Northwest ambassador
- Exhibitor, University of Sussex Sackler Centre Consciousness Expo (Summer 2012)