

Rachel Wu

Curriculum Vitae

Department of Psychology
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Research Statement

I am a developmental cognitive neuroscientist investigating optimal attention and learning strategies across the lifespan. My EEG and behavioral research from infancy to aging adulthood investigates how learner factors (e.g., prior knowledge, learning approach) and environmental factors (e.g., scaffolding) facilitate the selection of relevant information to promote new learning in some contexts, while being detrimental to new learning in other contexts. This research reconceptualizes healthy cognitive aging as an outcome of learning strategies and habits developed throughout the lifespan, rather than an inevitable stage of development. The goal of this research is to use infant and child research to promote cognitive development across the lifespan.

Employment

2015-now	Assistant Professor, UC Riverside <i>Riverside, CA, USA</i>
2012-2015	NRSA Postdoctoral Fellow, University of Rochester (with Richard Aslin) <i>Rochester, NY, USA</i>
2011-2012	Postdoctoral Research Fellow, Birkbeck (with Martin Eimer & Tim Smith) <i>London, UK</i>

Education

2011	Ph.D. in Psychology Centre for Brain and Cognitive Development (CBCD), Birkbeck (BBK), University of London "Learning (to learn) from spatial attention cues during infancy", awarded May 31 2011, Supervisors: Natasha Z. Kirkham & Denis Mareschal
2011	Diploma in Art and Design The Institute, Middlesex University
2007	M.Sc. in Psychoanalytic Developmental Psychology The Anna Freud Centre, University College London Distinction on dissertation, Supervisors: Peter Fonagy, R. M. Pasco Fearon, & Saul Hillman
2006	B.S. in Psychology B.S. in History and Anthropology Carnegie Mellon University (CMU) Dean's List of High Honors (summa cum laude), Psi Chi, Thesis advisor: David H. Rakison

Grants (total award amount)

2016-2017	UCR Omnibus Travel Grant (\$950)
2018-2019	UCR Affordable Course Materials Initiative (\$3000)
2017-2018	UCR Center for Advanced Neuroscience (10 free scan hours)
2018	UCR Undergraduate research mini-grant, "Developing and Validating the Broad Adult Learning Questionnaire Short Form" (\$500)
2017-2018	American Psychological Foundation's Visionary Fund Grant, "Inducing cognitive development in aging adults" (\$20,000)
2017-2018	UCR Omnibus Travel Grant (\$1000)
2017-2018	UCR Regents Faculty Fellowship (\$4000)
2017-2018	UCR Center for Ideas in Society Second Project Fellowship (\$6100)
2016-2017	UCR Affordable Course Materials Initiative (\$1500)
2016-2017	UCR Omnibus Travel Grant (\$1100)
2013-2014	NSF workshop funding, "Learning to attend, attending to learn: Neurological, behavioral, and computational perspectives", BCS-1339060 (\$34,706), Role: PI. Co-PIs: Gedeon Deak & Richard Aslin.
2012-2015	

- Ruth L. Kirschstein National Research Service Award (NRSA) for Individual Postdoctoral Fellows, Optimal neural and behavioral markers for learning to learn during infancy, F32HD070537 (\$148,518), Role: PI. Sponsors: Richard Aslin & Chen Yu, Collaborator: Gaia Scerif
- 2012 Birkbeck Graduate Research School Generic Skills Funding for workshop (£1818)
- 2011-2012 British Academy Small Research Grant, Attentional Mechanisms for Learning to Learn, SG-110780 (£7,500), Role: PI. Co-PIs: Martin Eimer, Gaia Scerif, Richard Aslin
- 2010-2011 University of London Central Research Fund Grant, Visual Statistical Learning from Social and Nonsocial Attention Cues in a Noisy Environment (£1,678), Role: PI.
- 2009-2010 University of London Central Research Fund Grant, Imitation of the New, Not the Old: Mutual Exclusivity of Action Patterns (£1,993), Role: PI.
- 2005-2006 CMU Small Undergraduate Research Grant, Do infants associate identical labels with parts more than shapes of objects? (\$500), Role: PI.
- 2004-2005 CMU Small Undergraduate Research Grant, Do infants associate labels with the functional parts or the functional actions of objects? (\$500), Role: PI.

Awards, Honors, and Scholarships

- 2013-2019 Marie Erhart Pearson Scholarship, Eastman School of Music
- 2014-2018 Anna Louise Baker Scholarship, Eastman School of Music
- 2018 Beyond the Ivory Tower workshop (Templeton Foundation)
- 2017 17th NIH OBSSR/NHLBI Summer Institute on Randomized Behavioral Clinical Trials
- 2017 UC Merced Write to Change the World: OpEd project travel award
- 2016 NIH-NIA Butler-Williams Scholars Program
- 2016-now Psychonomic Society Fellow
- 2016 Penn State Young Scholar Speaker
- 2015 Association for Psychological Science (APS) Rising Star
- 2015 NIMH Summer Research Institute in Geriatric Mental Health (Weill Cornell Med College)
- 2014 Gordon Research Conference/Gordon Research Seminar early career funding
- 2013 Best in Show (*Gaia Fractals*), Bridge Art Gallery, Dept of Psychiatry, Rochester, NY
- 2013 Cognitive Science Society conference sponsorship
- 2012 Center for Visual Science Symposium (U of R) Travel Fellowship
- 2012 Robert J. Glushko Dissertation Prize, Cognitive Science Society
- 2011 British Psychological Society (BPS) Postdoctoral Study Visits Award
- 2011 BPS Postdoctoral/Lecturer Conference Bursary
- 2011 International Congress of Psychology 2016 logo design competition, second prize
- 2011 Cognitive Development Society Travel Award
- 2011 British Academy Overseas Conference Grant
- 2011 European Cognitive Science Society Best Student Paper Prize
- 2011 Institute of Cognitive Neuroscience (ICN) Brain Travel Grant
- 2011 Society for Research in Child Development (SRCD) Student Travel Award
- 2010 BPS Developmental Section International Collaboration Award
- 2010 Society for Reproductive and Infant Psychology (SRIP) postgraduate prize
- 2010 ICN Brain Travel Grant
- 2009 John Merck Fund Summer Institute on the Biology of Developmental Disabilities (Sackler)
- 2009 BPS Postgraduate Study Visits Award, to visit Indiana University
- 2009 Experimental Psychology Society (EPS) Grindley Grant, conference travel
- 2009 Roberts@BBK 2009 Postgraduate First Prize
- 2008-2010 Birkbeck International Research Studentship
- 2007-2010 Birkbeck Overseas Research Scholarship
- 2006 CMU Women's Association Scholarship
- 2006 CMU Meeting of the Minds Psychology Department Research Award

Publications

†Graduate student trained by R. Wu; ^ Undergraduate student trained by R. Wu

1. Nguyen, C.[^], Leanos, S.[†], Natsuaki, M., Rebok, G., & **Wu, R.** (in press). Adaptation for growth via learning new skills as a means to long-term functional independence in older adulthood: Insights from emerging adulthood. *The Gerontologist*.
2. Bayet, L., Zinszer, B., Pruitt, Z.[^], Aslin, R. N., & **Wu, R.** (in press). Dynamics of neural representations when searching for human and non-human faces. *Scientific Reports*.
3. Leanos, S.[†], Coons, J., Rebok, G. W., Ozer, D. J., & **Wu, R.** (in press). Development of the Broad Learning Adult Questionnaire (BLAQ). *The International Journal of Aging and Human Development*.
4. **Wu, R.**, Shimi, A., Solis, M., & Scerif, G. (in press). Learning what to attend to: From the lab to the classroom. *Journal of Cognitive Neuroscience*.
5. **Wu, R.**, McGee, B.[†], Rubenstein, M.[^], Pruitt, Z.[^], Cheung, O., & Aslin, R. N. (2018). Emergence of the benefits and costs of grouping for visual search. *Psychophysiology*, 55(9), e13087.
6. **Wu, R.**, McGee, B.[†], Echiverri, C.[^], & Zinszer, B. (2018). Prior knowledge of category size impacts visual search. *Psychophysiology*, 55(8), e13075.
7. Quiñones-Camacho, L., **Wu, R.**, & Davis, E. L. (2018). Motivated attention to fear-related stimuli: Evidence for the enhanced processing of fear in the Late Positive Potential. *Motivation and Emotion*, 42(2), 299-308.
8. Lin, F., Wang, X., **Wu, R.**, Rebok, G., & Chapman, B. (2017). Identification of successful cognitive aging in the Alzheimer's Disease Neuroimaging Initiative Study. *Journal of Alzheimer's Disease*, 59(1), 101-111.
9. **Wu, R.**, & Zhao, J. (2017). Prior knowledge of object associations shapes attentional templates and information acquisition. *Frontiers in Psychology*, 8(843), 1-6.
10. Xiao, N. G.* , **Wu, R.***, Quinn, P. C., Liu, S., Tummeltshammer, K. S., Kirkham, N. Z., Ge, L., Pascalis, O., & Lee, K. (2017). Infants rely more on social cues from own-race than other-race adults for learning under uncertainty. *Child Development*, e229-e244. (*co-first author)
11. **Wu, R.**, & Zhao, J.-Y. (2017). The "item" as a window into how prior knowledge guides visual search. *Behavioral and Brain Sciences*, 40, e162.
12. **Wu, R.**, Rebok, G. W., & Lin, F. V. (2017). A novel theoretical life course framework for triggering cognitive development across the lifespan. *Human Development*, 56(6), 342-365.
13. **Wu, R.**, Pruitt, Z.[^], Zinszer, B., & Cheung, O. (2017). Increased experience amplifies the activation of task-irrelevant category representations. *Attention, Perception, and Psychophysics*, 79(2), 522-532.
14. **Wu, R.**, Pruitt, Z.[^], Runkle, M.[^], Scerif, G., & Aslin, R. N. (2016). A neural signature of rapid category-based target selection as a function of intra-item perceptual similarity despite inter-item dissimilarity. *Attention, Perception, and Psychophysics*, 78(3), 749-76.
15. **Wu, R.**, Nako, R., Band, J.[^], Pizzuto, J.[^], Shadravan, Y.[^], Scerif, G., & Aslin, R. N. (2015). Rapid selection of non-native stimuli despite perceptual narrowing. *Journal of Cognitive Neuroscience*, 27(11), 2299-2307.
16. Papageorgiou, K. A., Smith, T. J., **Wu, R.**, Johnson, M. H., Kirkham, N. Z., & Ronald, A. (2014). Individual differences in infant fixation duration relate to child attention and behavioral control in childhood. *Psychological Science*, 25(7), 1371-1379.
17. Tummeltshammer, K. A., **Wu, R.**, Sobel, D., & Kirkham, N. Z. (2014). Infants track the reliability of potential informants. *Psychological Science*, 25(9), 1730-1738.
18. Nako, R., **Wu, R.**, & Smith, T. J., & Eimer, M. (2014). Item and category-based attentional control during search for real-world objects: Can you find the pants among the pans? *Journal of Experimental Psychology: Human Perception and Performance*, 40(4), 1283-1288.
19. **Wu, R.**, Tummeltshammer, K. S., Gliga, T., & Kirkham, N. Z. (2014). Ostensive signals support learning from novel attention cues during infancy. *Frontiers in Psychology*, 5:251.
20. Nako, R.* , **Wu, R.***, & Eimer, M. (2014). Rapid guidance of visual search by object categories. *Journal of Experimental Psychology: Human Perception and Performance*, 40(1), 50-60. (*co-first author)
21. Lloyd-Fox, S., **Wu, R.**, Richards, J., Elwell, C., & Johnson, M. H. (2013). Cortical activation to action perception is associated with action production abilities in young infants. *Cerebral Cortex*.

22. **Wu, R.**, Scerif, G., Aslin, R. N., Smith, T. J., Nako, R.[^], & Eimer, M. (2013). Searching for something familiar or novel: Top-down attentional selection of specific items or object categories. *Journal of Cognitive Neuroscience*, 25(5), 719-729.
23. Yurovsky, D., Hidaka, S., & **Wu, R.** (2012). Quantitative Linking Hypotheses for Infant Eye Movements. *PLoS One*, 7(10), e47419.
24. Kirkham, N. Z., Richardson, D. C., **Wu, R.**, & Johnson, S. P. (2012). The importance of 'what': Infants use featural information to index events. *Journal of Experimental Child Psychology*, 113(3), 430-439.
25. Karmiloff-Smith, A., Broadbent, H., Farran, E. K., Longhi, E., D'Souza, D., Metcalfe, K., Tassabehji, M., **Wu, R.**, Senju, A., Happe, F., Turnpenny, P., & Sansbury, F. (2012). Social Cognition in Williams Syndrome: Insights from Partial Deletion Patients. *Frontiers in Developmental Psychology*, 3:168. doi: 10.3389/fpsyg.2012.00168
26. Morse, A., Hannagan, T., & **Wu, R.** (2012). Bring on the loop! Commentary on Rohlfsing, K. J. & Wrede, B.: What Novel Scientific and Technological Questions Developmental Robotics Bring to HRI? Are we Ready for a Loop? *IEEE Transactions on Autonomous Mental Development*, 9, 10-11.
27. **Wu, R.**, Gopnik, A., Richardson, D. C., & Kirkham, N. Z. (2011). Infants learn about objects from statistics and people. *Developmental Psychology*, 47(5), 1220-1229.
28. **Wu, R.**, Mareschal, D., & Rakison, D. H. (2011). Attention to multiple cues during spontaneous object labeling. *Infancy*, 16(5), 545-556.
29. **Wu, R.**, & Kirkham, N. Z. (2010). No two cues are alike: Depth of learning during infancy is dependent on what orients attention. *Journal of Experimental Child Psychology*, 107, 118-136.

Popular press articles

1. **Wu, R.** (2017). Six secrets infants can teach us about learning. *Scientific American*.
2. **Wu, R.** (2013). Learning from learners. *The Psychologist*, 26(2), 550-551.

Chapters and Proceedings

1. McGee, B.†, & **Wu, R.** (in press). Vision in infants. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
2. McGee, B.†, & **Wu, R.** (in press). Attention. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
3. McGee, B.†, & **Wu, R.** (in press). Learning. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
4. Leanos, S.†, & **Wu, R.** (in press). Lifelong learning. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
5. Leanos, S.†, & **Wu, R.** (in press). Leisure activities. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
6. Leanos, S.†, & **Wu, R.** (in press). Brain plasticity. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
7. Leanos, S.†, & **Wu, R.** (in press). Life Span perspective. In R. Summers (Ed.) *Developmental Psychology: How the Mind Grows and Changes over a Lifetime* (pp. XXX-XXX). Santa Barbara, CA: ABC-CLIO.
8. **Wu, R.** (2018). Cross-pollination in cognitive development. In M. H. Bornstein, M. E. Arterberry, K. L. Fingerman, & J. E. Lansford (Eds.) *SAGE Encyclopedia of Lifespan Human Development* (pp. 490-492). Thousand Oaks, CA: SAGE.
9. **Wu, R.**, & Hannagan, T. (2018). Learning. In M. H. Bornstein, M. E. Arterberry, K. L. Fingerman, & J. E. Lansford (Eds.) *SAGE Encyclopedia of Lifespan Human Development* (pp. 1258-1260). Thousand Oaks, CA: SAGE.
10. **Wu, R.**, & Scerif, G. (2018). Attention. In M. H. Bornstein, M. E. Arterberry, K. L. Fingerman, & J. E. Lansford (Eds.) *SAGE Encyclopedia of Lifespan Human Development* (pp. 176-178). Thousand Oaks, CA: SAGE.
11. Scerif, G., & **Wu, R.** (2014). Developmental Disorders. In A.C. Nobre & S. Kastner (Eds.) *The Oxford Handbook of Attention* (pp. 893-926). Oxford: OUP.

12. Swan, K. A., **Wu, R.**, & Kirkham, N. Z. (2013). 8-month-olds know which face is reliable. In M. Knauff, M Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Berlin, Germany: Cognitive Science Society.
13. **Wu, R.**, & Kirkham, N. Z. (2012). Learning (to learn) from spatial attention cues during infancy. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society* (pp. 1161-1166). Sapporo, Japan: Cognitive Science Society.
14. Yurovsky, D., Hidaka, S., & **Wu, R.** (2012). Quantitative Linking Hypotheses for Infant Eye Movements. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Sapporo, Japan: Cognitive Science Society.
15. Hannagan, T., & **Wu, R.** (2011). Cued multimodal learning in infancy: A neuro-computational model. In C. Hoelscher, T. F. Shipley, & L. Carlson (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*. Boston, MA: Cognitive Science Society.
16. Yurovsky, D., **Wu, R.**, Yu, C., Kirkham, N. Z., & Smith, L. B. (2011). Model selection for eye movements: assessing the role of attentional cues in infant learning. In E. J. Davelaar (Ed.), *Connectionist models of neurocognition and emergent behavior: From theory to applications* (pp. 58-75). Singapore: World Scientific.
17. **Wu, R.**, Kirkham, N. Z., Swan, K. A., & Gliga, T. (2011). Social signals scaffold learning from novel cues during infancy. In B. Kokinov, A. Karmiloff-Smith, & N. Nersessian (Eds.), *Proceedings of the European Conference on Cognitive Science*. Sofia, Bulgaria: New Bulgarian University Press. Awarded Best Student Paper Prize.
18. **Wu, R.**, Gopnik, A., Richardson, D. C., & Kirkham, N. Z. (2010). Social cues support learning about objects from statistics in infancy. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 1228-1233). Portland, OR: Cognitive Science Society.

Manuscripts under review/in prep

†Graduate student trained by R. Wu; ^ Undergraduate student trained by R. Wu

1. **Wu, R.**, Qian, T., & Aslin, R. N. (under revision). Change in abstract information does not disrupt specific learning of novel stimuli for 8- to 11-month-olds.
2. **Wu, R.**, & Rebok, G. (forthcoming). Maximizing the impact of cognitive engagement interventions. In A. Thomas & A. Gutchess, *Handbook of Cognitive Aging: A Life Course Perspective*, pp.XXX-XXX. Cambridge University Press.
3. van Bergen, G., Flecken, M., & **Wu, R.** (in prep). Relational labels facilitate visual search with perceptual target match.
4. Leanos, S.†, Kurum, E., Strickland-Hughes, C., Rebok, G. W., & **Wu, R.** (in prep). Optimizing the Potential for Adult Learning (OPAL)
5. Leanos, S.†, Kurum, E., Rebok, G. W., & **Wu, R.** Learning multiple skills is related to working memory (in prep).
6. Leanos, S.†, Rebok, G. W., Bennett, I.*, **Wu, R.*** (in prep). Neural correlates of learning multiple skills. (*co-senior author)

Recent Conference Presentations

†Graduate student trained by R. Wu; ^ Undergraduate student trained by R. Wu

1. van Bergen, G., Flecken, M., & **Wu, R.** (September 2018). Searching for the label advantage in perception: to what extent do verbal categories facilitate visual search? Poster to be presented at the Architectures and Mechanisms for Language Processing conference, Berlin, Germany.
2. **Wu, R.**, Rebok, G., & Leanos, S. (August 2018). Why learning new artistic/creative skills may increase cognitive functioning across the lifespan. Talk presented at the American Psychological Association conference, San Francisco, CA.
3. Peralta, S.^, Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (May 2018). Developing the Broad Adult Learning Questionnaire Short Form (BLAQ-S). Poster presented at the UCR undergraduate research symposium.

4. Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (May 2018). Investigating the relationship between broad learning and fluid abilities in older adulthood. Poster presented at the American Psychological Association conference, San Francisco, CA.
5. Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (May 2018). Broad learning is related to cognitive abilities in older adulthood. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
6. Strickland-Hughes, C. & **Wu, R.** (April 2018). Maximizing the impact of cognitive interventions. Symposium presented at the International Learning and Memory Conference, Huntington Beach, CA.
7. Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (April 2018). The relationship between broad learning and cognitive abilities. Poster presented at the International Learning and Memory Conference, Huntington Beach, CA.
8. Bayet, L., Zinszer, B., Saville, A., Aslin, R. N., Bales, B., & **Wu, R.** (March 2018). Probing the time-course of face representations with time-resolved multivariate pattern analyses of EEG signals. Poster presented at the Cognitive Neuroscience Society annual conference, Boston, MA.
9. Felix, M.∧, Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (February 2018). The relationship between learning environment and cognitive functioning. Poster presented at the California Alliance for Minority Participation, Irvine, CA. ***Received Honorable Mention Award***
10. Leanos, S.†, Coons, J., Rebok, G., Ozer, D., & **Wu, R.** (July 2017). Developing and validating the lifestyle cognitive development questionnaire. Poster presented at the 21st IAGG World Congress of Gerontology and Geriatrics, San Francisco, CA.
11. **Wu, R.**, Rebok, G., & Lin, F. V. (2017, July). Six factors to trigger cognitive development across the lifespan: A new theoretical framework. Poster to be presented at the IAGG World Congress of Gerontology and Geriatrics, San Francisco, CA.
12. McGee, B.†, Ecchiveri, C.∧, Zinszer, B., & **Wu, R.** (2017, May). Category supersedes identity in visual search: Attentional templates reflect participants' category knowledge in both item and set searches. Poster presented at the Vision Sciences Society, St. Pete, FL.
13. Bayet, L., Zinszer, B., **Wu, R.**, & Aslin, R. N. (April 2017). Multivariate analysis of EEG for face perception development research. Talk presented at the Face Processing pre-conference, SRCD, Austin, TX.
14. Leanos, S.†, Coons, J., Rebok, G., Ozer, D., & **Wu, R.** (March 2017). A new measure for lifespan creative engagement: Development and validation. Poster presented at the Society for the Neuroscience of Creativity, San Francisco, CA.
15. McGee, B.†, Ecchiveri, C.∧, Zinszer, B., & **Wu, R.** (2017, March). Prior knowledge of category size impacts search. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.
16. **Wu, R.**, Rebok, G. W., & Lin, F. V. (2017, Jan). A novel theoretical life course framework for triggering cognitive development across the lifespan. Poster presented at the Dallas Aging and Cognition Conference, Dallas, TX.
17. **Wu, R.**, Rebok, G., & Lin, F. V. (2016, Nov). A new framework on lifespan cognitive development. Talk presented at the Gerontological Society of America, New Orleans, LA.
18. Xiao, N. G., Quinn, P. C., Liu, S., **Wu, R.**, Tummeltshammer, K. S., Kirkham, N. Z., Ge, L., Pascalis, O., Lee, K. (2016, May). Emergence of implicit racial bias in infants: Convergent evidence. Talk presented at the International Congress on Infant Studies biannual meeting, New Orleans, LA.
19. **Wu, R.**, Pruitt, Z.∧, Zinszer, B., & Cheung, O. (2016, May). Increased experience amplifies rapid task-irrelevant attentional capture. Talk presented at the Vision Sciences Society, Naples, FL.
20. **Wu, R.**, Scerif, G., & Aslin, R. N. (2016, May). The emergence of the costs and benefits of grouping during visual search. Poster presented at the Vision Sciences Society, Naples, FL.
21. **Wu, R.** (2016, May). The costs and benefits of chunking during visual search. Talk presented at the International Meeting of the Psychonomic Society, Granada, Spain.
22. **Wu, R.**, Hannagan, T., & Lin, F. V. (2016, April). CALLA: A new framework on lifespan cognitive development. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
23. **Wu, R.**, & Lin, F. (2015, Nov). Distraction from novel information vs. existing knowledge in aging adults. Poster presented at the Gerontological Society of America, Orlando, FL.

24. Ren, P., **Wu, R.**, Mapstone, M., & Lin, F. (2015, July). Altered functional connectivity of prefrontal cortex underpins the abnormality of intra-individual variability in reaction time in mild cognitive impairment. *Journal of the Alzheimer's Association*, *11*(7), P885–P886.
25. **Wu, R.**, Pruitt, Z.[^], Runkle, M.[^], Meyer, K.[^], Scerif, G., & Aslin, R. N. (2015, May). Feature correlation guidance in category visual search. Talk presented at the Vision Sciences Society, St. Pete, FL.
26. **Wu, R.**, Pruitt, Z.[^], Runkle, M.[^], Meyer, K.[^], Scerif, G., & Aslin, R. N. (2015, March). Feature correlation modulates category guidance during visual search. Poster to be presented at the Cognitive Neuroscience Society, San Francisco, CA.
27. Tummeltshammer, K., **Wu, R.**, & Kirkham, N. Z. (2015, March). Infant statistical learners attend selectively to patterned over random visual objects. Poster presented at the Society for Research in Child Development biannual meeting, Philadelphia, PA.
28. **Wu, R.**, Nako, R., Band, J.[^], Shadravan, Y.[^], Scerif, G., & Aslin, R. N. (2015, March). Rapid selection of non-native stimuli despite perceptual narrowing. Talk presented at SRCD pre-conference, Philadelphia, PA.
29. **Wu, R.**, Nako, R., Band, J.[^], Shadravan, Y.[^], Scerif, G., & Aslin, R. N. (2014, May). Perceptual narrowing: Do we fully lose what we do not use? Poster presented at Gordon Research Conference, Newry, ME.
30. **Wu, R.**, Nako, R., Band, J.[^], Shadravan, Y.[^], Scerif, G., & Aslin, R. N. (2014, May). The effect of perceptual narrowing on category-based visual search: an ERP study. Poster presented at the Vision Sciences Society, Naples, FL.
31. **Wu, R.** (2013, Nov). Attending to Learn, Learning to Attend: Developmental Dynamics. Talk presented at the Attention and Learning workshop, San Diego, CA.
32. Papageorgiou, K. A., Smith, T. J., **Wu, R.**, Kirkham, N. Z., Johnson, M. H., & Ronald, A. (2013, Aug). An investigation of the relationship between individual differences in infant fixations durations and later temperament and behaviour in childhood. Poster presented at the 17th European Conference on Eye Movements (ECEM), Lund, Sweden.
33. **Wu, R.**, Nako, R., & Eimer, M. (2013, June). Rapid guidance of visual search by object categories. Talk presented at the 17th International Conference on Cognitive and Neural Systems, Boston, MA.
34. Nako, R., **Wu, R.**, & Smith, T. J., & Eimer, M. (2013, May). Can I find my pants in the kitchen? Electrophysiological markers of categorical search using pictorial stimuli. Poster presented at the Vision Sciences Society, Naples, FL.
35. **Wu, R.**, Nako, R., Scerif, G., & Eimer, M. (2013, May). Searching for single or multiple exemplars and categories: Electrophysiological markers of category-based attentional guidance. Poster presented at the Vision Sciences Society, Naples, FL.
36. **Wu, R.**, Nako, R., Scerif, G., & Eimer, M. (2013, April). Searching for single or multiple exemplars and categories: Electrophysiological markers of category-based attentional guidance. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.

Workshop/Conference Organization

2015-2017	EEG methods workshop, Riverside, CA, USA (funder: Brain Vision)
2013/11	Learning to Attend, Attending to Learn: Neurological, Behavioral, and Computational Perspectives on Development, San Diego, CA, USA (funders: NSF, CogSci, Brain Vision)
2012/07	International Conference of Thinking (ICT 2012) – co-organized volunteer team, Birkbeck, London
2012/03	Gaze, Bias, Learning II: Linking Computation, Neuroscience, and Cognitive Development; Tamagawa University, Tokyo (funder: gCOE-Tamagawa)
2012/01	Gaze, Bias, Learning: Linking Computation, Neuroscience, and Cognitive Development (afternoon workshop); How to get ahead in academia in 5 countries (morning workshop); Birkbeck, London (funder: BBK GRS fund)
2010/10	First PhD graduation seminar event at Birkbeck, Discussant: Albert Yonas (funder: BBK psych dept)

Teaching

Introduction to Psychology, Lifespan Development, Research Methods in Developmental Psychology, Attention and Learning Interactions, Bridging Cognitive Development and Cognitive Aging, Cognitive Foundations of Behavior, Lab in Development and Learning, Adulthood and Aging

Professional Service and Mentoring

- NIH Early Career Reviewer (2018-present)
- Deutsche Forschungsgemeinschaft (DFG – NSF equivalent in Germany) panelist (2018)
- UCR Women's Faculty Association Mentoring Chair (2017-present)
- NSF Panelist (2016, 2017)
- Reviewer: ICIS, SRCD, CogSci, EuroCogSci conferences. Ad hoc reviewer for *Biological Psych*, *British Journal of Dev Psych*, *Cognition*, *Developmental Psych*, *Developmental Sci*, *Frontiers*, *Infancy*, *Journal of Cog Sci*, *JECP*, *PeerJ*, *Psychonomic Bulletin and Review*, *PLoS One*, *Proceedings of the Royal Society B: Biological Sciences*, *American Journal of Psychology*, *Quarterly Journal of Exp Psych*.
- Co-Chair University of Rochester PostDoc Association (2013-2014)
- Career development speaker for PhD students, Birkbeck and Rochester (2012-2014)
- Co-supervised 3 undergrad projects, supervised 4 RAs (Birkbeck 2009-2012)
- Supervised 3 undergrad projects, supervised 5-6 RAs/semester (Rochester 2013-2015)

Select Invited Talks/Lectures (since 2012)

2018	UCR Osher Risky Business (Riverside and Palm Desert talks)
2018	UCR Veterans, Military Members, and Families Group Luncheon
2018	UCR Health and Wellness
2018	UCR Citizen University Committee
2017	UCR Office of Research Integrity
2017	UC San Diego, Department of Psychology
2017	UC Merced
2017	Johns Hopkins University
2017	AARP
2016	Claremont Graduate University
2016	UCI Institute for Memory Impairments and Neurological Disorders, distinguished speaker
2016	Penn State Young Scholar Speaker Series
2015	UCR, Discover Day
2015	UCLA, Department of Psychology
2015	UC San Diego, Division of Geriatric Psychiatry
2015	'Learning to see' – U of R Medical Center/Memorial Art Gallery
2015	'Building Your Future' career talk – CMU
2012-2014	'Writing a Strong CV', 'Career Opportunities' – BBK, Rochester
2013	Carnegie Mellon University
2013	University of Rochester, Cognitive Development Lecture
2013	University of Toronto
2012	University of Rochester, Cognitive Science lecture (developmental methods)
2012	University of Salzburg
2012	Indiana University
2012	Osaka University, Kyoto University, Primate Research Institute
2012	EEG Research Methods, BBK
2012	Developmental Research Methods, BBK

Design

Editor, UCR Psychology Department Newsletter (2017-present)

Callalab.com; Lifespan.ucr.edu

Logo: International Conference on Development and Learning 2012, San Diego, CA, USA

Logo: XXXI International Congress of Psychology 2016, Yokohama, Japan, second prize (September, 2011)

Logo: Genes Environment Lifespan Lab, BBK (August, 2011)

David E. Rumelhart prize medallion (with David Waller): *Cognitive Science Society* (2010-present)

Logo and book cover: 12th Neural Computation and Psychology Workshop (April, 2010)

Cover art: Gershkoff-Stowe, L., & Rakison, D. H. (Eds.), (2005). *Building object categories in developmental time*. Hillsdale, NJ: Erlbaum

Select Dissemination/Publicity/Outreach (since 2012)

- 2018 Feature in *The New York Times*, *Elle*, *TIME*
- 2018 *Not Born Yesterday* interview
- 2018 Inland Empire Caregiver Conference keynote
- 2017 Generation Bold radio interview
- 2017 Riverside County Elder Abuse Symposium: Keynote speaker
- 2017-present UCR Psychology department newsletter, Editor
- 2017 Riverside Healthy Jurupa Valley Collaborative meeting invited speaker
- 2017 Riverside County Office on Aging invited talk
- 2017 New York Observer interview on "chunking" working memory and attention
- 2017 UCR Osher Lifelong Learning Institute invited talk
- 2015-present 2 press releases for published articles
- 2015 Yahoo Parenting: Interview on nature vs. nurture
- 2015 Press Enterprise: Interview on coloring books
- 2015 Xerox teleconference featured speaker: Cost savings, lower attrition, higher performers
- 2015 American Society for Training and Development featured speaker on adult learning
- 2014 Indian Community Center Professional Forum featured speaker on creative aging
- 2014 Feature in Fall courses brochure, Memorial Art Gallery
- 2014 "Choosing Yes over No", UR Postdoc Association newsletter (Vol. 4)
- 2012 Feature in Rochester Democrat and Chronicle Arts Community Blog, Rochester, NY