

Rachel Wu

Curriculum Vitae

Department of Psychology
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Research Statement

I am a developmental cognitive neuroscientist investigating attending to and learning relevant information 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., learning from people) facilitate the selection of relevant information to promote new learning in some contexts, while being detrimental to new learning in other contexts. Cross-pollinating child development and aging research has the potential to promote cognitive growth across the lifespan.

Employment

2021-present	Associate Professor, UC Riverside <i>Riverside, CA, USA</i>
2015-2021	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

Major Grants (total award amount)

Pending	NSF RAPID, "Improving social connectedness, cognition, and function via learning new technology in low-income, minority older adults during the COVID-19 pandemic", Role: PI.
2021-2024	NSF REU supplement for CAREER award to support undergraduate research (\$21,600), Role: PI.
2020-2024	NSF REU supplement for CAREER award to support undergraduate research (\$21,600), Role: PI.
2020-2022	NSF RAPID, "Older adults' learning and adaptation as resilience processes to counter social isolation during the COVID-19 pandemic" (BCS-2029575, \$132,474), Role: PI.
2020-2021	Pilot Interdisciplinary Collaborative Research Award as part of an NIH U54 Award, "Biomarkers of cognitive health disparities in minority/disadvantaged older adults" (\$26,183), Role: PI.
2019-2024	NSF CAREER Award, Science of Learning, "CAREER: Investigating the impact of learning new skills on cognitive development and motivation for functional independence in older adulthood" (BCS-1848026, \$739,002), Role: PI.

- 2017-2018 American Psychological Foundation's Visionary Fund Grant, "Inducing cognitive development in aging adults" (\$20,000), Role: PI.
- 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 NIH 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

Other Grants (total award amount)

- 2020-2021 UCR Omnibus Travel Grant (\$900)
- 2020-2021 Pilot Interdisciplinary Research Working Group Award as part of an NIH U54 Award, "Working group on underrepresented participant recruitment barriers" (\$2,500), Role: co-I.
- 2020-2021 Pilot Interdisciplinary Research Working Group Award as part of an NIH U54 Award, "The contribution of hearing loss to age-related cognitive decline in the Inland Empire" (\$2,500), Role: co-I.
- 2019-2021 UCR Healthy Campus Project grant, "Exploring the Mental Health and Well-Being of UCR Faculty and Graduate Students: Imposter Syndrome and Beyond" (\$2000), PI: Sheffler, Role: Mentor.
- 2019-2020 UCR Undergraduate research mini-grant, "Probing the Nature of Same vs. Different Category Concepts" (\$300), Role: Advisor.
- 2019-2020 UCR Undergraduate research mini-grant, "Investigating the link between microaggressions and cognition" (\$875), Role: Advisor.
- 2019-2020 UCR Undergraduate research mini-grant, "Understanding the Role of Material Interestingness in Motivation to Learn" (\$750), Role: Co-Advisor.
- 2019-2020 UCR Omnibus Travel Grant (\$900)
- 2019-2020 UCR Regents Faculty Development Award (\$3500), Role: PI.
- 2018-2019 UCR Healthy Campus Project grant, "The effects of deportation-related stress on academic performance among college students in Trump's America" (\$1000), PI: Leanos, Role: PhD advisor.
- 2018-2019 UCR Undergraduate research mini-grant, "Investigating brain changes from learning new skills in old age" (\$700), Role: Advisor.
- 2018-2019 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), Role: Advisor.
- 2017-2018 UCR Omnibus Travel Grant (\$1000)
- 2017-2018 UCR Regents Faculty Fellowship (\$4000), Role: PI.
- 2017-2018 UCR Center for Ideas in Society Second Project Fellowship (\$6100), Role: PI.
- 2016-2017 UCR Affordable Course Materials Initiative (\$1500)
- 2016-2017 UCR Omnibus Travel Grant (\$1100)
- 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.

Major Awards and Honors

2020 Innovative Research on Aging Silver Award (Mather Institute)
 2020 Academy of Behavioral Medicine Research Early Stage Investigator Award
 2019 NSF CAREER Award
 2016 NIH-NIA Butler-Williams Scholars Program
 2016-now Psychonomic Society Fellow
 2015 Association for Psychological Science (APS) Rising Star
 2012 Robert J. Glushko Dissertation Prize, Cognitive Science Society

Other Awards, Honors, and Scholarships

2019 National Eye Institute/Vision Sciences Society Early Career Scientist Travel Grant
 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 Penn State Young Scholar Speaker
 2015 NIMH Summer Research Institute in Geriatric Mental Health (Weill Cornell Med College)
 2014 Gordon Research Conference/Gordon Research Seminar early career funding
 2014-2018 Anna Louise Baker Scholarship, Eastman School of Music
 2013-2020 Marie Erhart Pearson Scholarship, Eastman School of Music
 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 (University of Rochester) Travel Fellowship
 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

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

1. Sheffler, P.†*, Rodriguez, T.†*, Cheung, C., & **Wu, R.** (in press). Cognitive and metacognitive, motivational, and resource considerations for learning new skills across the lifespan. *WIREs Cognitive Science*. (*equal authorship)
2. Pérez, I., **Wu, R.**, Bravo, D., & Murray, C. B. (in press). An interdisciplinary framework examining culture and adaptation in migrant children and adolescents. *New Directions for Child and Adolescent Development*.

3. **Wu, R.**, Kurum, E., Ahmed, C.[^], Sain, D., & Aslin, R. N. (2021). Categorization in infancy based on novelty and co-occurrence. *Infant Behavior and Development*, *62*, 101510.
4. Ferguson, L.[^], Ahmed, C.[^], Dang, C.[^], & **Wu, R.** (in press). Neural target selection as a marker of familiarity during search for perceptually distinct objects. *European Journal of Neuroscience*.
5. **Wu, R.**, Zhao, J., Cheung, C., Natsuaki, M., Rebok, G., & Strickland-Hughes, C. (2021). Learning as an important privilege: A lifespan perspective with implications for successful aging. *Human Development*, *65*, 51-64.
6. Ditta, A.[‡], Strickland-Hughes, C., Cheung, C., & **Wu, R.** (2020). Exposure to information increases motivation to learn more. *Learning and Motivation*. Epub ahead of print
7. Hoemann, K.*^{*}, **Wu, R.***, LoBue, V.*^{*}, Oakes, L.*^{*}, Xu, F., & Feldman Barrett, L.*^{*} (2020). Developing an understanding of emotion categories: Lessons from objects. *Trends in Cognitive Sciences*, *24*(1), 39-51. (*equal authorship)
8. Nguyen, C.[^], Leanos, S.[†], Natsuaki, M., Rebok, G., & **Wu, R.** (2020). Adaptation for growth via learning new skills as a means to long-term functional independence in older adulthood: Insights from emerging adulthood. *The Gerontologist*, *60*(1), 4-11.
9. Leanos, S.[†], Kurum, E., Strickland-Hughes, C., Ditta, A.[‡], Nguyen, G.[^], Felix, M.[^], Yum, H.[^], Rebok, G. W., & **Wu, R.** (2020). The impact of learning multiple real-world skills on cognitive abilities and functional independence in healthy older adults. *Journals of Gerontology: Series B Psychological Sciences*, *75*(6), 1155–1169.
10. **Wu, R.**, & Strickland-Hughes, C. (2019). Adaptation for growth as a common goal throughout the lifespan: Why and how. *Psychology of Learning and Motivation*, *71*, 387-414.
11. van Bergen, G.[‡], Flecken, M., & **Wu, R.** (2019). Rapid target selection of object categories based on verbs: Implications for language-categorization interactions. *Psychophysiology*, *56*(9), e13395.
12. **Wu, R.** (2019). Learning what to learn across the lifespan: From objects to real-world skills. *Current Directions in Psychological Science*, *28*(4) 392-397.
13. **Wu, R.**, Qian, T., & Aslin, R. N. (2019). No evidence that abstract structure learning disrupts novel-event learning in 8- to 11-month-olds. *Frontiers in Psychology*, *10*, 498.
14. Leanos, S.[†], Coons, J., Rebok, G. W., Ozer, D. J., & **Wu, R.** (2019). Development of the Broad Learning Adult Questionnaire. *The International Journal of Aging and Human Development*, *88*(3), 286-311.
15. Bayet, L., Zinszer, B., Pruitt, Z.[^], Aslin, R. N., & **Wu, R.** (2018). Dynamics of neural representations when searching for human and non-human faces. *Scientific Reports*, *8*, 13277.
16. **Wu, R.**, Shimi, A., Solis, M., & Scerif, G. (2018). Learning what to attend to: From the lab to the classroom. *Journal of Cognitive Neuroscience*, *30*(12), 1749-1756.
17. **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.
18. **Wu, R.**, McGee, B.[†], Echiverri, C.[^], & Zinszer, B. (2018). Prior knowledge of category size impacts visual search. *Psychophysiology*, *55*(8), e13075.
19. 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.
20. 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.
21. **Wu, R.**, & Zhao, J. (2017). Prior knowledge of object associations shapes attentional templates and information acquisition. *Frontiers in Psychology*, *8*(843), 1-6.
22. 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)
23. **Wu, R.**, & Zhao, J. (2017). The "item" as a window into how prior knowledge guides visual search. *Behavioral and Brain Sciences*, *40*, e162.
24. **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.

25. **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.
26. **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.
27. **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.
28. 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.
29. Tummeltshammer, K. A., **Wu, R.**, Sobel, D., & Kirkham, N. Z. (2014). Infants track the reliability of potential informants. *Psychological Science*, 25(9), 1730-1738.
30. 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.
31. **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.
32. 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)
33. 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*.
34. **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.
35. Yurovsky, D., Hidaka, S., & **Wu, R.** (2012). Quantitative Linking Hypotheses for Infant Eye Movements. *PLoS One*, 7(10), e47419.
36. 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.
37. 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
38. Morse, A., Hannagan, T., & **Wu, R.** (2012). Bring on the loop! Commentary on Rohlfing, 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.
39. **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.
40. **Wu, R.**, Mareschal, D., & Rakison, D. H. (2011). Attention to multiple cues during spontaneous object labeling. *Infancy*, 16(5), 545-556.
41. **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.

Manuscripts under review/in prep

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

42. Moon, A.[†], Ditta, A.[‡], Cheung, O., & **Wu, R.** (under revision). Rapid category selectivity for animals versus man-made objects: An N2pc study.
43. Moon, A.[†], Zhao, J-Y, Peters, M., & **Wu, R.** (under revision). Using prior knowledge and novel information in visual search.
44. Sheffler, P.[†], Kurum, E., Rebok, G., Strickland-Hughes, C. M., & **Wu, R.** (under review). Growth mindset predicts cognitive gains in an older adult multi-skill learning intervention.

Popular press articles

1. **Wu, R.**, & Strickland-Hughes, C. M. (2019). Think you're too old to learn new tricks? *Scientific American*.
2. **Wu, R.** (2017). Six secrets infants can teach us about learning. *Scientific American*.
3. **Wu, R.** (2013). Learning from learners. *The Psychologist*, 26(2), 550-551.

Chapters, proceedings, and encyclopedia articles

1. **Wu, R.**, & Rebok, G. (2020). Maximizing the impact of cognitive engagement interventions. In A. Thomas & A. Gutches, *Handbook of Cognitive Aging: A Life Course Perspective*, pp.685-700. Cambridge University Press.
2. McGee, B.†, & **Wu, R.** (2020). Attention. *Essays in Developmental Psychology*.
3. McGee, B.†, & **Wu, R.** (2020). Learning. *Essays in Developmental Psychology*.
4. McGee, B.†, & **Wu, R.** (2020). Vision in infants. *Essays in Developmental Psychology*.
5. **Wu, R.** (2020). Brain plasticity. *Essays in Developmental Psychology*.
6. **Wu, R.** (2020). Leisure activities. *Essays in Developmental Psychology*.
7. **Wu, R.** (2020). Lifelong learning. *Essays in Developmental Psychology*.
8. **Wu, R.** (2020). Lifespan development. *Essays in Developmental Psychology*.
9. **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.
10. **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.
11. **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.
12. Scerif, G., & **Wu, R.** (2014). Developmental Disorders. In A.C. Nobre & S. Kastner (Eds.) *The Oxford Handbook of Attention* (pp. 893-926). Oxford: OUP.
13. 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.
14. **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.
15. 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.
16. 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.
17. 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.
18. **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.
19. **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.

Select Recent Conference Presentations

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

1. Ferguson, L.†, Sain, D., Kurum, E., Rebok, G., Strickland-Hughes, C. M., & **Wu, R.** (2021, Nov). Long-term cognitive effects from a real-world multi-skill learning intervention in older adults. Talk to be presented at the Gerontological Society of America conference.
2. Sheffler, P.†, Kurum, E., Rebok, G., Strickland-Hughes, C. M., & **Wu, R.** (2021, Nov). The impact of growth mindset on older adults' cognitive functioning in a multi-skill learning intervention. Talk to be presented at the Gerontological Society of America conference.
3. Kyeong, Y.†, Sheffler, P.†, Kurum, E., Cheung, C., Davis, L., Strickland-Hughes, C. M., & **Wu, R.** (2021, Nov). Growth mindset and older adults' well-being during the COVID-19 pandemic. Talk to be presented at the Gerontological Society of America conference.
4. Azer, L.†, Kurum, E., Ferguson, L., Davis, E. L., Zhang, W., Strickland-Hughes, C. M., & **Wu, R.** (2021, Nov). Older adults' engagement in cognitively stimulating activities prior to the COVID-19 pandemic predicts perceived loneliness during the pandemic. Talk to be presented at the Gerontological Society of America conference.
5. Moon., A.†, Dang, C.^, Hester, G.^, Durrett, L.^, Duong, A.^, Ferguson, L.^, Peters, M., & **Wu, R.** (2020, June). Investigating N2pc effects with the use of prior knowledge and novel information in visual search. Poster presented at the virtual Vision Sciences Society conference.
6. **Wu, R.** (2020, May). Learning what to learn across the lifespan. Invited address at the Western Psychological Association conference, San Francisco, CA, conference postponed.
7. Flores, J.^, Alvarado, P.^, Munoz, R.^, Ferguson, L.^, **Wu, R.** (2020, May). Microaggressions may relate to poorer well-being, but do not affect cognitive abilities. Poster accepted at the Western Psychological Association conference, San Francisco, CA, conference postponed.
8. Moon., A.†, Xe, C., Ditta, A.‡, Cheung, O., & **Wu, R.** (2020, May). Rapid category selectivity for animal versus man-made objects: an N2pc study. Poster presented at the virtual Cognitive Neuroscience Society conference.
9. Ferguson, L.^, Ahmed, C.^, Dang, C.^, & **Wu, R.** (2020, April). Rapid target selection of object categories depends on subtle differences in familiarity. Poster accepted at the Cognitive Aging Conference, Atlanta, GA, conference cancelled.
10. Leanos, S.†, Kurum, E., Strickland-Hughes, C., Ditta, A.‡, Rebok, G. W., & **Wu, R.** (2019, June). The impact of learning multiple real-world skills on cognitive abilities and functional independence in healthy older adults. Talk presented at SARMAC, Cape Cod, MA.
11. Flores, J. J., Bennett, I. J., **Wu, R.**, & Firat, R. (2019, May). A psychological wellbeing comparison between Hispanic and Non-Hispanic older adults. Poster presented at the UCLA Aging conference, Los Angeles, CA, USA.
12. Leanos, S.†, Kurum, E., Strickland-Hughes, C., Ditta, A.‡, Rebok, G. W., & **Wu, R.** (2019, April). The impact of learning multiple real-world skills on cognitive abilities and functional independence in healthy older adults. Talk presented at the International Conference Aging and Cognition, Zurich, Switzerland.
13. van Bergen, G., Flecken, M., & **Wu, R.** (2018, September). Searching for the label advantage in perception: to what extent do verbal categories facilitate visual search? Poster presented at the Architectures and Mechanisms for Language Processing conference, Berlin, Germany.
14. **Wu, R.**, Rebok, G., & Leanos, S. (2018, August). Why learning new artistic/creative skills may increase cognitive functioning across the lifespan. Talk presented at the American Psychological Association conference, San Francisco, CA.
15. Peralta, S.^, Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (2018, May). Developing the Broad Adult Learning Questionnaire Short Form (BLAQ-S). Poster presented at the UCR undergraduate research symposium.
16. Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (2018, May). Investigating the relationship between broad learning and fluid abilities in older adulthood. Poster presented at the American Psychological Association conference, San Francisco, CA.
17. Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (2018, May). Broad learning is related to cognitive abilities in older adulthood. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
18. Strickland-Hughes, C. & **Wu, R.** (2018, April). Maximizing the impact of cognitive interventions. Symposium presented at the International Learning and Memory Conference, Huntington Beach, CA.

19. Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (2018, April). The relationship between broad learning and cognitive abilities. Poster presented at the International Learning and Memory Conference, Huntington Beach, CA.
20. Bayet, L., Zinszer, B., Saville, A., Aslin, R. N., Bales, B., & **Wu, R.** (2018, March). 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.
21. Felix, M.ˆ, Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (2018, February). The relationship between learning environment and cognitive functioning. Poster presented at the California Alliance for Minority Participation, Irvine, CA. ***Received Honorable Mention Award***
22. Leanos, S.†, Coons, J., Rebok, G., Ozer, D., & **Wu, R.** (2017, July). Developing and validating the lifestyle cognitive development questionnaire. Poster presented at the 21st IAGG World Congress of Gerontology and Geriatrics, San Francisco, CA.
23. **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.
24. McGee, B.†, Ecchiveri, C.ˆ, 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.
25. 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.
26. 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.
27. McGee, B.†, Ecchiveri, C.ˆ, Zinszer, B., & **Wu, R.** (2017, March). Prior knowledge of category size impacts search. Poster presented at the Cognitive Neuroscience Society, San Francisco, CA.
28. **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.
29. **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.
30. 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.
31. **Wu, R.**, Pruitt, Z.ˆ, Zinszer, B., & Cheung, O. (2016, May). Increased experience amplifies rapid task-irrelevant attentional capture. Talk presented at the Vision Sciences Society, Naples, FL.
32. **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.
33. **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.
34. **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.
35. **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.
36. 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.
37. **Wu, R.**, Pruitt, Z.ˆ, Runkle, M.ˆ, Meyer, K.ˆ, Scerif, G., & Aslin, R. N. (2015, May). Feature correlation guidance in category visual search. Talk presented at the Vision Sciences Society, St. Pete, FL.
38. **Wu, R.**, Pruitt, Z.ˆ, Runkle, M.ˆ, Meyer, K.ˆ, 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.

39. 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.

Workshop/Conference Organization

- 2019-2020 Aging faculty research workshops at UCR, Riverside, CA, USA
- 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 and Mentoring

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

Postdocs:

- Annie Ditta, UC Riverside, Assistant Professor of Teaching

Graduate students mentored:

- Austin Moon, UC Riverside
- Shirley Leanos, UC Riverside
- Brianna McGee, UC Riverside
- Christopher Casey, UC Riverside
- Pamela Sheffler, UC Riverside (co-mentored)
- Lilian Azer, UC Riverside (co-mentored)
- Yena Keong, UC Riverside (co-mentored)
- Isabela Perez, UC Riverside (co-mentored)
- Undergraduate mini grant advisor (2016-present)
- Mentoring Summer Research Internship Program/RISE/MARC-U advisor (2016-present)
- UCR Women's Faculty Association Mentoring Chair (2017-present)
- Undergraduate Honors Program advisor (2016-present)

Professional Service and Mentoring

- NIH panel reviewer, ad-hoc for Sensory, Perceptual, and Cognitive Processes; ad-hoc for Cognition and Perception (2019, 2020)
- NSF panel reviewer for Developmental Science and Science of Learning, and GRFPs (2016, 2017, 2019, 2020)
- Deutsche Forschungsgemeinschaft (DFG – NSF equivalent in Germany) panelist (2018, 2020, 2022)
- 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)

Select Invited Talks/Lectures (since 2012)

2020 UCLA

2019	Claremont Graduate University
2019	Birkbeck, University of London
2019	University of Oxford
2019	NYU Abu Dhabi
2019	UC Irvine
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-present	Feature in <i>The New York Times</i> , <i>Elle</i> , <i>TIME</i> , <i>NBC News</i> , <i>The New Yorker</i>
2018	Inland Empire Caregiver Conference keynote
2017, 2020	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