

# Rachel Wu

## Curriculum Vitae

Department of Psychology  
University of California, Riverside  
900 University Avenue, Riverside, CA 92521  
Rachel.Wu (at) ucr.edu

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

### Grants (total award amount)

|           |                                                                                                                                                                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 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

|           |                                                                                              |
|-----------|----------------------------------------------------------------------------------------------|
| 2017-2018 | Anna Louise Baker Scholarship, Eastman School of Music                                       |
| 2017      | 17 <sup>th</sup> NIH OBSSR/NHLBI Summer Institute on Randomized Behavioral Clinical Trials   |
| 2017      | UC Merced Write to Change the World: OpEd project travel award                               |
| 2016-2017 | Anna Louise Baker Scholarship, Eastman School of Music                                       |
| 2016      | NIH-NIA Butler-Williams Scholars Program                                                     |
| 2016-now  | Psychonomic Society Fellow                                                                   |
| 2016      | Penn State Young Scholar Speaker                                                             |
| 2015-2016 | Marie Erhart Pearson Scholarship, Eastman School of Music                                    |
| 2015      | Association for Psychological Science (APS) Rising Star                                      |
| 2015      | NIMH Summer Research Institute in Geriatric Mental Health (Weill Cornell Med College)        |
| 2014-2015 | Anna Louise Baker Scholarship, Eastman School of Music                                       |
| 2014      | Gordon Research Conference/Gordon Research Seminar early career funding                      |
| 2013-2014 | Marie Erhart Pearson Scholarship, Eastman School of Music                                    |
| 2013      | Best in Show ( <i>Gaia Fractals</i> ), 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 (h-index: 13; citations: 600+)

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

**Wu, R.**, McGee, B.†, Rubenstein, M.^, Pruitt, Z.^, Cheung, O., & Aslin, R. N. (in press). Emergence of the benefits and costs of grouping for visual search. *Psychophysiology*.

**Wu, R.**, McGee, B.†, Echiverri, C.^, & Zinszer, B. (2018). Prior knowledge of category size impacts visual search. *Psychophysiology*, e13075.

- Quiñones-Camacho, L., **Wu, R.**, & Davis, E. L. (in press). Motivated attention to fear-related stimuli: Evidence for the enhanced processing of fear in the Late Positive Potential. *Motivation and Emotion*.
- Wu, R.** (2017). Six secrets infants can teach us about learning. *Scientific American*.
- 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.
- Wu, R.**, & Zhao, J. (2017). Prior knowledge of object associations shapes attentional templates and information acquisition. *Frontiers in Psychology*, 8(843), 1-6.
- 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*, epub ahead of print. (\*co-first author)
- Wu, R.**, & Zhao, J.-Y. (2017). The "item" as a window into how prior knowledge guides visual search. *Behavioral and Brain Sciences*, 40, e162.
- 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.
- 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.
- 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.
- 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.
- 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.
- Tummeltshammer, K. A., **Wu, R.**, Sobel, D., & Kirkham, N. Z. (2014). Infants track the reliability of potential informants. *Psychological Science*, 25(9), 1730-1738.
- 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.
- 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.
- 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)
- 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*.
- 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.
- Wu, R.** (2013). Learning from learners. *The Psychologist*, 26(2), 550-551.
- Yurovsky, D., Hidaka, S., & **Wu, R.** (2012). Quantitative Linking Hypotheses for Infant Eye Movements. *PLoS One*, 7(10), e47419.
- 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.
- 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
- 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.
- 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.
- Wu, R.**, Mareschal, D., & Rakison, D. H. (2011). Attention to multiple cues during spontaneous object labeling. *Infancy*, 16(5), 545-556.

**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.

### Chapters and Proceedings

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Wu, R.** (in press). 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. XXX-XXX). Thousand Oaks, CA: SAGE.
- Wu, R., & Hannagan, T.** (in press). Learning. In M. H. Bornstein, M. E. Arterberry, K. L. Fingerman, & J. E. Lansford (Eds.) *SAGE Encyclopedia of Lifespan Human Development* (pp. XXX-XXX). Thousand Oaks, CA: SAGE.
- Wu, R., & Scerif, G.** (in press). Attention. In M. H. Bornstein, M. E. Arterberry, K. L. Fingerman, & J. E. Lansford (Eds.) *SAGE Encyclopedia of Lifespan Human Development* (pp. XXX-XXX). Thousand Oaks, CA: SAGE.
- Scerif, G., & **Wu, R.** (2014). Developmental Disorders. In A.C. Nobre & S. Kastner (Eds.) *The Oxford Handbook of Attention* (pp. 893-926). Oxford: OUP.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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
- Bayet, L., Zinszer, B., Pruitt, Z.^, Aslin, R. N., & **Wu, R.** (under revision). Perceptual narrowing of neural representations, but not target selection, when searching for faces.
- Wu, R.**, Shimi, A., Solis, M., & Scerif, G. (under revision). Learning what to attend to: From the lab to the classroom.
- Wu, R.**, & Rebok, G. (forthcoming). Maximizing the impact of lifestyle interventions. In A. Thomas & A. Gutches, *Handbook of Cognitive Aging: A Life Course Perspective*, pp.XXX-XXX. Cambridge University Press.
- Leanos, S.†, Coons, J., Rebok, G. W., Ozer, D. J., & **Wu, R.** (under review). Development of the Broad Learning Adult Questionnaire (BLAQ).
- Wu, R.**, Qian, T., & Aslin, R. N. (in prep). Change in abstract information does not disrupt specific learning of novel stimuli for 8- to 11-month-olds.
- Wu, R.** (in prep). Leveraging new NIH registration and reporting requirements to bridge the basic-clinical research gap.
- Wu, R.**, Leanos, S., Rebok, G., & Zhao, J. (in prep). A novel mechanistic framework on lifespan cognitive development: Implications for interventions and assessments.
- Leanos, S.†, Coons, J., Rebok, G. W., & **Wu, R.** (in prep). Validation of the Broad Learning Adult Questionnaire (BLAQ).

### Recent Conference Presentations

- †Graduate student trained by R. Wu; ^ Undergraduate student trained by R. Wu
- Leanos, S.†, Coons, J., Rebok, G., & **Wu, R.** (April 2018). Broad learning is related to cognitive abilities in older adulthood. Poster to be presented at the Cognitive Aging Conference, Atlanta, GA.
- 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 to be presented at Cognitive Neuroscience Society annual conference, Boston, MA.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Wu, R.** (2013, Nov). Attending to Learn, Learning to Attend: Developmental Dynamics. Talk presented at the Attention and Learning workshop, San Diego, CA.
- 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 17<sup>th</sup> European Conference on Eye Movements (ECEM), Lund, Sweden.
- Wu, R., Nako, R., & Eimer, M.** (2013, June). Rapid guidance of visual search by object categories. Talk presented at the 17<sup>th</sup> International Conference on Cognitive and Neural Systems, Boston, MA.
- 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.
- 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.
- 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*

## Advisees (from 2016)

### Current graduate students

Shirley Leanos

### Select undergraduate research assistants

Chelsea Ecchiveri (San Jose State, MA, Full tuition coverage, work-study)

Sarah Chau (UC Riverside)

Sara Drake (UC Riverside), *Academic Excellence Award* for the College of Natural & Agricultural Sciences; University of Rochester Center for Vision Sciences Summer Internship

## 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 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: 12<sup>th</sup> 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

## Other Dissemination/Publicity/Outreach (since 2012)

2018 *Not Born Yesterday* interview  
 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