

CURRICULUM VITAE

Jamie Edgin, PhD
Professor and Department Chair, Psychology
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CHRONOLOGY OF EDUCATION

- 2003 PhD, University of Denver, Psychology and Developmental Cognitive Neuroscience; Dissertation: A neuropsychological model for the development of the cognitive profiles in intellectual disability syndromes: Evidence from Down syndrome and Williams syndrome; Advisors: Bruce Pennington & Carolyn Mervis
- 2001 MA, University of Denver, Psychology, MA thesis: The development of spatial cognition in autism; Advisor: Bruce Pennington
- 1998 BS, Carnegie Mellon University; Psychology with Honors; Advisor: Patricia Carpenter

CHRONOLOGY OF EMPLOYMENT

Note: *indicates employment as an undergraduate or graduate student

- 2023-present Professor and Chair, Virginia Tech, Psychology Department
- 2018-2023 Associate Professor with Tenure, Cognition and Neural Systems Program, University of Arizona, Department of Psychology
- 2012- 2018 Assistant Professor, Cognition and Neural Systems Program, University of Arizona, Department of Psychology
- 2016-present Director/Co-Director, Cognition and Neural Systems Graduate Program, University of Arizona, Department of Psychology
- 2020-present Disability Policy Fellowship Director, Sonoran UCEDD
- 2016- present Affiliated Faculty, Frances McClelland Institute and Family Studies and Human Development, University of Arizona
- 2012- present Affiliated Faculty, Cognitive Science Graduate and Interdisciplinary Program, University of Arizona
- 2012- present Affiliated Faculty, Sonoran University Center for Excellence in Developmental Disabilities, University of Arizona
- 2009- present Adjunct Assistant Professor, Special Education/Rehabilitation and School Psychology, University of Arizona
- 2007-2012 Research Associate, University of Arizona, Department of Psychology, Tucson, AZ, Advisor: Lynn Nadel
- 2003-2006 Postdoctoral Research Fellow and Lecturer, University of Canterbury, Department of Psychology and Education, Christchurch, New Zealand, Advisor: Lianne Woodward
- *1997-1998 Research Assistant, Eleanor Roosevelt Institute, Denver, CO
- *1998-2003 Research Assistant, Developmental Neuropsychology Clinic, University of Denver, Denver, CO
- *1996-1998 Research Assistant, Center for Cognitive Brain Imaging, Carnegie Mellon University

HONORS & AWARDS

- 2023 University of Arizona Udall/Bio5 Policy Fellow
- 2022 Grand Marshal, Tucson Buddy Walk
- 2020 Arizona Psychological Association, Distinguished Contribution to Science
- 2019 Keynote Speaker, Honors College Convocation, University of Arizona
- 2018 Henry and Phyllis Koffler Award for Community Outreach, University of Arizona
- 2015 David Cox "Rising Star" Award, LuMind Foundation
- 2015 Psychonomics Society, Fellow
- 2014 Diane Lynn Anderson Memorial Award for Community Service, nominee

2008-2009 National Down Syndrome Society Charles Epstein Research Award
 2009 March of Dimes Scholarship to attend the 50th Annual Short Course on Medical and Experimental Mammalian Genetics
 2009 Theodore Tjossem Award, Gatlinburg Conference on Intellectual Disabilities
 2007-2009 NIH Pediatric Loan Repayment Program
 2000-2003 National Institutes of Health Predoctoral National Research Service Award
 2002 Biology of Developmental Disabilities Fellow, Cold Spring Harbor Laboratories
 1998-1999 Colorado Graduate Fellowship
 1999 Andrew Carnegie Presidential Scholar
 1997-1998 National Institute of Mental Health Undergraduate Research Fellowship
 1998 Gretchen Goldsmith Lankford Award

SERVICE/OUTREACH

University

2022-2023 UA Center for Sleep and Circadian Sciences, Executive Committee
 2021-2023 Organizer, UA autism collective (cross-college collaborative group for autism advocacy and research)
 2021-2023 Mentor for high school summer interns in UA KEYS and PREP programs
 2021-2023 University Committee on Honorary Degrees
 2021-2022 Department Head Review Committee
 2020 Search Committee, Speech, Language and Hearing Sciences Department Head
 2020-2023 Committee on Academic Freedom and Tenure (faculty conflict resolution and adjudication)
 2019-2022 Executive Committee of The Graduate Interdisciplinary Program in Cognitive Science
 2019 Psychology Honors Program Director (fill-in for Mehl sabbatical)
 2018 Keynote Speaker, Department of Psychology Outreach Salon
 2016-2023 Director, Graduate Program in Cognition and Neural Systems
 2016 Faculty, "speed-geeking" with the Neuroscience/Cognitive Science undergraduate majors
 2016 Co-organizer, Inaugural University of Arizona Sleep Conference (70 cross-college attendees)
 2015 Judge, Mind, Brain, and Behavior Graduate Student Poster Session
 2015 Arizona LEND program grant review panel, Banner University Medical Center
 2015 School of Mind, Brain, and Behavior Science Café on Sleep
 2013 Panelist, Graduate School Preparation Course, Department of Psychology
 2013 Organizer, Campus wide grants workshop through the Thrasher Research Fund
 2012-2013 Facilitator, Interprofessional Education and Practice Session on Developmental Disabilities at Banner University Medical Center
 2013 College of Science Scitini, media outreach event with invited participation from early career faculty
 2012-2023 Faculty, Memory Group, University of Arizona (extracurricular reading group)
 2012-2023 Service on graduate student thesis and comprehensive exam committees

Local/state

2023 Criminal Justice Working Group and the State Sex Abuse Prevention Collaborative
 2022-2023 Co-Chair, PAIMI council (Protection and Advocacy for Individuals with Mental Illness), Center for Disability Law
 2019-2023 State Working Group on Sexual Abuse in Individuals with Developmental and Intellectual Disabilities (outreach and policy brief produced)
 2016 Sponsor, "Learning to Drive" World Premier at LOFT cinemas (a developmental disabilities advocacy film)
 2016 Cyclovia (attendance >30,000), Outreach booth to promote good sleep habits for all children
 2016-2018 State of Arizona Developmental Disabilities Planning Council Strategic Planning Committee

2015-2018	State of Arizona Developmental Disabilities Planning Council Information Dissemination Sub-committee
2014-2018	Appointed Member, State of Arizona Developmental Disabilities Planning Council; Arizona State Government Council established to provide advocacy on issues relevant to developmental disabilities
2014-2023	Specialty Advisor, Tucson Council of the Arizona Autism Coalition
2014	Mentor, Career Program at Empire High School, Tucson, AZ
2012-2023	Tucson "Buddy Walk" for Down Syndrome: volunteer assistance and fundraising support

National/International

2022-2023	Chair, Gatlinburg Conference Program Committee
2020	Grant reviewer, National Institutes of Health (NIH) Special Emphasis Subcommittee
2018	UK Sleep and Development Scientists Network, Member and Annual Meeting Organizer
2017-2020	Trisomy 21 Society Clinical Child Developmental Committee (International)
2018	Grant reviewer, National Science Foundation
2019-2022	Standing Committee Member, National Institutes of Health (NIH) Biobehavioral and Behavioral Sciences Subcommittee
2017	Grant reviewer, National Institutes of Health (NIH) Biobehavioral and Behavioral Sciences Subcommittee
2016	Grant reviewer, NIH Child Psychopathology and Developmental Disabilities study section
2017-present	Executive board for the Gatlinburg Conference on Intellectual and Developmental Disorders
2017	Society for Research in Child Development bi-annual meeting, reviewer
2016-present	National Down Syndrome Society clinical and scientific advisory board
2015-present	National Institutes of Health working group on cognitive outcome measures for Down syndrome
2014-2015	Cognition in Fragile X Advisory Board, Novartis Pharmaceuticals
2014-present	Early childhood assessment consultation, F. Hoffman-La Roche Ltd.
2014-2016	Scientific Oversight Committee for Clementis Down syndrome study, F. Hoffman-La Roche Ltd.
2016	International Conference on Infant Studies, reviewer
2013	Grant Reviewer, Alzheimer's Association
2013	Grant Reviewer, International Science Foundation (country omitted)

Editorial Appointments

2018-2020	Senior Associate Editor, Research in Developmental Disabilities
2014-2017	Associate Editor, American Journal on Intellectual and Developmental Disabilities
2005-present	Consulting Editor, Journal of Autism and Developmental Disorders

Ad Hoc Reviewer (selected list, approximately one manuscript per month)

- Biological Psychiatry
- Cognitive Development
- Journal of Experimental Child Psychology
- Child Development
- Journal of Clinical Sleep Medicine
- Lancet
- Developmental Cognitive Neuroscience
- Developmental Science
- Journal of Autism and Developmental Disorders
- Journal of Child Psychology and Psychiatry and Allied Disciplines
- Journal of Developmental and Behavioral Pediatrics
- Child Neuropsychology
- Journal of the International Neuropsychological Society
- Hippocampus
- Scientific Reports
- Pediatrics
- Lancet Neurology
- Human Brain Mapping
- Current Biology

Departmental Committees

2021-2023	Chair, Professional Development Committee
2018-2019	Faculty Executive Advisory Committee
2017-2020	Research Committee
2017-2019	Graduate Professional Development Committee
2016- 2023	Faculty Search Committees
2015	Psychology Department Strategic Planning Committee
2013-2015	Development Committee
2012-2016	Co-chair, Colloquium Committee

PUBLICATIONS/CREATIVE ACTIVITY

* indicates work performed as a graduate student

PATENT

Edgin, J., & Clark, C. (2020). *U.S. Patent No. 10,667,740*. Washington, DC: U.S. Patent and Trademark Office.

BOOKS, BOOK CHAPTERS, BRIEFS, AND COMMENTARIES (Student trainees underlined)

For a full list of publications, please see: <https://scholar.google.com/citations?user=6fnJiQAAAAJ&hl=en&oi=ao>

1. De La Rosa, J. S., Duncan, A.W., Parent-Johnson, W., Edgin, J., Edwards, N.M. (2022). *Sonoran UCEDD Evaluation Report: Implementation and Impact of Arizona's Abuse & Neglect Prevention Task Force Recommendations*. Tucson, AZ: Sonoran Center for Excellence in Disabilities, University of Arizona.
2. "Preventing Sexual Abuse in Arizona Schools", *Report of School Sexual Abuse Working Group*.
3. Hughes, K., & Edgin, J. (2021). Sleep to remember: Typical and atypical sleep and constraints on representational development. *Taking Development Seriously A Festschrift for Annette Karmiloff-Smith: Neuroconstructivism and the Multi-Disciplinary Approach to Understanding the Emergence of Mind*.
4. Sakhon, S & Edgin, J.O. (2020). Down syndrome: a neuroscience perspective. *Encyclopedia on Health Psychology*. Wiley.
5. Burack, J. Edgin, J., Abbeduto, L & Busciglio, J. (Eds.) (2021). *The Oxford Handbook of Down Syndrome and Development*. Oxford, UK: Oxford University Press.
6. Anand, P., Nyhuis, C., Pisani, L., & Edgin, J.O. (2021). Sleep, development, and Down syndrome. In Burack, J. Edgin, J., Abbeduto, L & Busciglio, J., Eds. *The Oxford Handbook of Down Syndrome and Development*. Oxford, UK: Oxford University Press.
7. Edgin, J.O. & Nadel, L. (2017). Hippocampus and development. *Neuroscience and Biobehavioral Psychology*.
8. Fernandez, F., & Edgin, J. O. (2016). Pharmacotherapy in Down's syndrome: which way forward?. *The Lancet Neurology*, 15(8), 776.
9. Edgin, J.O., & Fernandez, F. (2014). The truth about Down syndrome. *The New York Times*.
10. Edgin, J.O., Spanò, G. & Nadel, L. (2011). Advances in clinical endpoints for neurocognitive rehabilitation in Down syndrome. In J.A. Rondal, J. Perera, L. & Spiker, D. (Eds.) *Neurocognitive Rehabilitation of Down syndrome, The Early Years*. Cambridge University Press, Cambridge.
11. Woodward, L., Edgin, J.O. & Champion, P. (2005). The preterm infant: An example of early developmental risk. In Low, Jason & Jose (Eds.) *Lifespan Development: The New Zealand Context*. Auckland, Pearson.
12. *Munakata Y., Edgin, J.O. & Stedron, J.M. (2003). The best is yet to come: The promise of models of developmental disorders: A commentary on Thomas and Karmiloff-Smith's "Are developmental disorders like cases of adult brain damage? Implications from connectionist modeling." *Behavioral and Brain Sciences*, 25, 765-766.

PEER REVIEWED JOURNAL ARTICLES (Student trainees underlined)

DEVELOPMENTAL DISORDERS

1. Lovos, A. & Edgin, J.O. (invited in progress). The expanding role of hippocampal function for adaptive everyday behavior in developmental disorders. *Trends in Cognitive Science*.
2. del Hoyo Soriano, L., Villarreal, J. C., Sterling, A., Edgin, J., Berry-Kravis, E., Hamilton, D. R., ... & Abbeduto, L. (2022). The association between expressive language skills and adaptive behavior in individuals with Down syndrome. *Scientific reports*, 12(1), 20014.
3. del Hoyo Soriano, L., Sterling, A., Edgin, J., Hamilton, D. R., Berry-Kravis, E., Dimachkie Nunnally, A., ... & Abbeduto, L. (2022). Associations Among Sex, Cognitive Ability, and Autism Symptoms in Individuals with Down Syndrome. *Journal of Autism and Developmental Disorders*, 1-11.
4. Van Deusen, K., Prince, M. A., Esbensen, A. J., Edgin, J. O., Schworer, E. K., Thurman, A. J., ... & Fidler, D. J. (2022). Profiles of Caregiver-Reported Executive Function in Children with Down Syndrome. *Brain Sciences*, 12(10), 1333.
5. Hoffmann, A., Thurman, A. J., Sterling, A., Kover, S. T., Finestack, L., Berry-Kravis, E., ... & Abbeduto, L. (2022). Analysis of a Repetitive Language Coding System: Comparisons between Fragile X Syndrome, Autism, and Down Syndrome. *Brain Sciences*, 12(5), 575.
6. Fidler, D. J., Prince, M. A., Van Deusen, K., Esbensen, A. J., Thurman, A. J., Abbeduto, L., ... & Daunhauer, L. A. (2022). Latent profiles of autism symptoms in children and adolescents with Down syndrome. *Journal of Intellectual Disability Research*, 66(3), 265-281.
7. Arias-Trejo, N., Angulo-Chavira, A. Q., Demara, B., Figueroa, C., & Edgin, J. (2021). The influence of sleep on language production modalities in preschool children with Down syndrome. *Journal of Sleep Research*, 30(3), e13120.
8. Thurman, A. J., Edgin, J. O., Sherman, S. L., Sterling, A., McDuffie, A., Berry-Kravis, E., ... & Abbeduto, L. (2021). Spoken language outcome measures for treatment studies in Down syndrome: Feasibility, practice effects, test-retest reliability, and construct validity of variables generated from expressive language sampling. *Journal of neurodevelopmental disorders*, 13(1), 1-17.
9. Dimachkie Nunnally, A., Nguyen, V., Anglo, C., Sterling, A., Edgin, J., Sherman, S., ... & Thurman, A. J. (2021). Symptoms of autism spectrum disorder in individuals with down syndrome. *Brain sciences*, 11(10), 1278.
10. Lovos, A., Bottrill, K., Sakhon, S., Nyhuis, C., Egleson, E., Luongo, A., ... & Edgin, J. (2021). Circadian sleep-activity rhythm across ages in down syndrome. *Brain sciences*, 11(11), 1403.
11. Abbeduto, L., Berry-Kravis, E., Sterling, A., Sherman, S., Edgin, J. O., McDuffie, A., ... & Thurman, A. J. (2020). Expressive language sampling as a source of outcome measures for treatment studies in fragile X syndrome: Feasibility, practice effects, test-retest reliability, and construct validity. *Journal of neurodevelopmental disorders*, 12(1), 1-23.
12. Spiridigliozzi, G. A., Goeldner, C., Edgin, J., Hart, S. J., Noeldeke, J., Squassante, L., ... & Liogier d'Ardhuy, X. (2019). Adaptive behavior in adolescents and adults with Down syndrome: Results from a 6-month longitudinal study. *American Journal of Medical Genetics Part A*, 179(1), 85-93.
13. Rosser, T. C., Edgin, J. O., Capone, G. T., Hamilton, D. R., Allen, E. G., Dooley, K. J., ... & Channell, M. M. (2018). Associations Between Medical History, Cognition, and Behavior in Youth With Down Syndrome: A Report From the Down Syndrome Cognition Project. *American journal on intellectual and developmental disabilities*, 123(6), 514-528.
14. Clark, C. A., Liu, Y., Wright, N. L. A., Bedrick, A., & Edgin, J. O. (2017). Functional neural bases of numerosity judgments in healthy adults born preterm. *Brain and cognition*, 118, 90-99.
15. Rofail, D., Froggatt, D., de la Torre, R., Edgin, J., Kishnani, P., Touraine, R., ... & D'Ardhuy, X. L. (2017). Health-Related Quality of Life in Individuals with Down Syndrome: Results from a Non-Interventional Longitudinal Multi-National Study. *Advances in therapy*, 34(8), 2058-2069.
16. Edgin, J. O., Anand, P., Rosser, T., Pierpont, E. I., Figueroa, C., Hamilton, D., . . . Sherman, S. (2017). The Arizona Cognitive Test Battery for Down Syndrome: Test-retest reliability and practice effects. *American Journal on Intellectual and Developmental Disabilities*.
17. Esbensen, A.J., Hooper, S.R., Fidler, D., Hartley, S., Edgin, J., d'Ardhuy, X. L., . . . Urv, Tiina. (2017). Outcome measures for clinical trials in Down Syndrome. *American Journal on Intellectual and Developmental Disabilities*.

18. Sabbagh, M., & Edgin, J. (2016). Clinical assessment of cognitive decline in adults with Down syndrome. *Current Alzheimer Research, 13*(1), 30-34.
19. Delabar, J. M., Allinquant, B., Bianchi, D., Blumenthal, T., Dekker, A., Edgin, J., ... & Guedj, F. (2016). Changing paradigms in down syndrome: the first international conference of the trisomy 21 research society. *Molecular Syndromology, 7*(5), 251-261.
20. Liogier d'Ardhuy, X., Edgin, J. O., Bouis, C., de Sola, S., Goeldner, C., Kishnani, P., ... & Spiridigliozzi, G. (2015). Assessment of cognitive scales to examine memory, executive function and language in individuals with down syndrome: implications of a 6-month observational study. *Frontiers in behavioral neuroscience, 9*, 300.
21. Lee, N. R., Anand, P., Will, E., Adeyemi, E. I., Clasen, L. S., Blumenthal, J. D., ... & Edgin, J. O. (2015). Everyday executive functions in Down syndrome from early childhood to young adulthood: evidence for both unique and shared characteristics compared to youth with sex chromosome trisomy (XXX and XXY). *Frontiers in behavioral neuroscience, 9*, 264.
22. Anderson, J. S., Treiman, S. M., Ferguson, M. A., Nielsen, J. A., Edgin, J. O., Dai, L., ... & Korenberg, J. R. (2015). Violence: heightened brain attentional network response is selectively muted in Down syndrome. *Journal of neurodevelopmental disorders, 7*(1), 15.
23. Mason, G. M., Spanò, G., & Edgin, J. (2015). Symptoms of Attention-Deficit/Hyperactivity disorder in Down syndrome: Effects of the dopamine receptor D4 gene. *American journal on intellectual and developmental disabilities, 120*(1), 58-71
24. Anderson, J.S., Nielsen, J.A., Ferguson, M.A., Burbach, M.C., Cox, E.T., Dai, L., Gerig, G., Edgin, J.O. & Korenberg, J.R. (2013). Abnormal brain synchrony in Down syndrome. *NeuroImage: Clinical, 2*, 703-715.
25. Edgin, J.O. (2013). Cognition in Down syndrome: A developmental cognitive neuroscience perspective. *WIREs Cognitive Science, 4*, 307-317.
26. Chen, C., Spanò, G. & Edgin, J.O. (2013). The impact of sleep disruption on executive function in Down syndrome. *Research in Developmental Disabilities, 34* (6), 2033-2039.
27. Edgin, J.O., Mason, G.M., Spanò, G., Fernández, A. & Nadel, L. (2012). Human and mouse model cognitive phenotypes in Down syndrome: Implications for assessment. *Progress in Brain Research, 197*, 123-151.
28. Edgin, J.O., Kumar, A., Spanò, G. & Nadel L. (2011). Neuropsychological effects of second language exposure in children with Down syndrome, *Journal of Intellectual Disability Research, 55* (3), 351-356.
29. Edgin, J.O., Mason, G., Allman, M., Capone, G., DeLeon, I., Maslen, C., Reeves, R.H., Sherman, S. & Nadel L. (2010). Development and validation of the Arizona Cognitive Test Battery for Down syndrome. *Journal of Neurodevelopmental Disorders, 2* (3), 149-164.
30. Edgin, J.O., Inder, T.E., Anderson, P., Hood, K.M., Clark, C.A.C. & Woodward, L.J. (2008). Executive functioning in preschool children born very preterm: Relationship with early white matter pathology. *Journal of the International Neuropsychological Society, 14* (1), 90-101.
31. Foster-Cohen, S., Edgin, J.O., Champion, P. & Woodward, L. (2007). Early language development in children born very premature. *Journal of Child Language, 34*, 655-675
32. *Edgin, J.O., Pennington, B.F. & Mervis, C.B. (2010). Neuropsychological components of intellectual disability: The role of immediate, working and associative memory, *Journal of Intellectual Disability Research, 54* (5), 406-417.
33. *Edgin, J.O. & Pennington, B. F. (2005). Spatial cognition in autism spectrum disorders: superior, impaired, or just intact? *Journal of Autism and Developmental Disorders, 35* (6), 729-745.
34. *Pennington, B.F., Moon, J., Edgin, J., Stedron, J. & Nadel, L. (2003). The neuropsychology of Down syndrome: Evidence of hippocampal dysfunction. *Child Development, 74* (1), 75-93.
35. *Willcutt, E.G., Pennington, B.F., Boada, R., Oglie (Edgin), J.S., Tunick, R.A., Chhabildas, N.A. & Olson, R.K. (2001). A comparison of the cognitive deficits in reading disability and attention-deficit/hyperactivity disorder. *Journal of Abnormal Psychology, 110* (1), 157-172.

SLEEP AND MEMORY

36. Raffaelli, Q., Andrews E., Cegavske, C.C., Abraham, F., Edgin J.O., & Andrews-Hanna, J.R. (in press). Ruminating by Day and at Night: Dreams Relate to Task-Unrelated Thoughts, Trait Rumination, and COVID-19 Concern, *Scientific Reports*.
37. Luongo, A., Lukowski, A., Protho, T., Van Vorce, H., Pisani, L., & Edgin, J. (2021). Sleep's role in memory consolidation: What can we learn from atypical development?. In *Advances in Child Development and Behavior* (Vol. 60, pp. 229-260). JAI.

38. Knobbe, K., Partha, M., Seckeler, M. D., Klewer, S., Hsu, C. H., Edgin, J., ... & Combs, D. (2021). Association Between Sleep Disturbances With Neurodevelopmental Problems and Decreased Health-Related Quality of Life in Children With Fontan Circulation. *Journal of the American Heart Association*, *10*(21), e021749.
39. Combs, D., Edgin, J. O., Klewer, S., Barber, B. J., Morgan, W. J., Hsu, C. H., ... & Parthasarathy, S. (2020). OSA and neurocognitive impairment in children with congenital heart disease. *Chest*, *158*(3), 1208-1217.
40. Spanò, G., Weber, F. D., Pizzamiglio, G., McCormick, C., Miller, T. D., Rosenthal, C. R., ... & Maguire, E. A. (2020). Sleeping with hippocampal damage. *Current Biology*, *30*(3), 523-529.
41. Spanò, G., Pizzamiglio, G., McCormick, C., Clark, I. A., De Felice, S., Miller, T. D., ... & Maguire, E. A. (2020). Dreaming with hippocampal damage. *Elife*, *9*, e56211.
42. Edgin, J. O., Liu, Y., Hughes, K., Spanò, G., & Clark, C. A. (2019). The “eyes have it,” but when in development?: The importance of a developmental perspective in our understanding of behavioral memory formation and the hippocampus. *Hippocampus*.
43. Combs, D., Goodwin, J. L., Quan, S. F., Morgan, W. J., Hsu, C. H., Edgin, J. O., & Parthasarathy, S. (2019). Mother Knows Best? Comparing Child Report and Parent Report of Sleep Parameters With Polysomnography. *Journal of Clinical Sleep Medicine*, *15*(01), 111-117.
44. Sakhon, S., Edwards, K., Luongo, A., Murphy, M., & Edgin, J. (2018). Small Sets of Novel Words Are Fully Retained After 1-Week in Typically Developing Children and Down Syndrome: A Fast Mapping Study. *Journal of the International Neuropsychological Society*, *24*(9), 955-965.
45. Spanò, G., Gómez, R. L., Demara, B. I., Alt, M., Cowen, S. L., & Edgin, J. O. (2018). REM sleep in naps differentially relates to memory consolidation in typical preschoolers and children with Down syndrome. *Proceedings of the National Academy of Sciences*, *115*(46), 11844-11849.
46. Spanò, G., Intraub, H., & Edgin, J. O. (2017). Testing the “Boundaries” of boundary extension: Anticipatory scene representation across development and disorder. *Hippocampus*.
47. Clark, C.A.C., Fernandez, F., Sakhon, S., Spanò, G., & Edgin, J. O. (2017). The medial temporal memory system in Down syndrome: Translating animal models of hippocampal compromise. *Hippocampus*.
48. Fernandez, F., Nyhuis, C. C., Anand, P., Demara, B. I., Ruby, N. F., Spanò, G., ... & Edgin, J. O. (2017). Young children with Down syndrome show normal development of circadian rhythms, but poor sleep efficiency: a cross-sectional study across the first 60 months of life. *Sleep Medicine*, *33*, 134-144.
49. Gómez, R. L., & Edgin, J. O. (2016). The extended trajectory of hippocampal development: Implications for early memory development and disorder. *Developmental cognitive neuroscience*, *18*, 57-69.
50. Spanò, G., Peterson, M. A., Nadel, L., Rhoads, C., & Edgin, J. O. (2016). Seeing can be remembering: Interactions between memory and perception in typical and atypical development. *Clinical Psychological Science*, *4*(2), 254-271.
51. Van Hoogmoed, A. H., Nadel, L., Spanò, G., & Edgin, J. O. (2016). ERP correlates of object recognition memory in Down syndrome: Do active and passive tasks measure the same thing?. *Neuropsychologia*, *82*, 39-53.
52. Spanò, G., & Edgin, J. O. (2016). Everyday memory in individuals with Down syndrome: Validation of the Observer Memory Questionnaire–Parent Form. *Child Neuropsychology*, 1-13.
53. Gómez, R. L., & Edgin, J. O. (2015). Sleep as a window into early neural development: Shifts in sleep-dependent learning effects across early childhood. *Child development perspectives*, *9*(3), 183-189.
54. Edgin, J. O., Tooley, U., Demara, B., Nyhuis, C., Anand, P., & Spanò, G. (2015). Sleep disturbance and expressive language development in preschool-age children with Down Syndrome. *Child development*, *86*(6), 1984-1998.
55. Edgin, J. O., Clark, C. A. C., Massand, E., & Karmiloff-Smith, A. D. (2015). Building an adaptive brain across development: targets for neurorehabilitation must begin in infancy. *Frontiers in behavioral neuroscience*, *9*, 232.
56. Breslin, J., Spanò, G., Bootzin, R., Anand, P., Nadel, L. & Edgin, J.O. (2014). Obstructive sleep apnea and cognition in Down syndrome, *Developmental Medicine and Child Neurology*, *56* (7), 657-664.
57. Edgin, J. O., Spanò, G., Kawa, K., & Nadel, L. (2014). Remembering things without context: development matters. *Child development*, *85*(4), 1491-1502.
58. Fernandez, F. & Edgin, J.O. (2013). Poor sleep as a precursor to cognitive decline in Down syndrome: A hypothesis. *Journal of Alzheimer's Disease and Parkinsonism*, *3*, 124. *Special Issue on Down syndrome*.

59. Breslin, J.H., Edgin, J.O., Bootzin, R.R., Goodwin, J.L. & Nadel, L. (2011). Parental report of sleep problems in Down syndrome, *Journal of Intellectual Disability Research*, 55 (11), 1086-1091.
60. Woodward, L. J., Edgin, J.O., Thompson, D. & Inder, T.E. (2005). Object working memory deficits predicted by early brain injury and development in the preterm infant. *Brain*, 128 (11), 2578-2587.

MEDIA

- 2019 *American Psychological Society Observer*, Featured Psychologist
- 2018 *US News and World Report*, Naps Don't Help Down Syndrome Kids Learn: Study
- 2017 *News Release, Office of Arizona Governor Ducey*, Capitol Goes Blue for Down Syndrome Research
- 2016 *NPR (91.5 KJZZ, Phoenix Affiliate) Interview*, Arizona Researchers Developing New Tool To Measure Memory In Younger Kids
- 2016 *UA News*, Psychologist Creates Tool for Measuring Memory
- 2016 *UK Telegraph*, Down's syndrome "can be treated with green tea"
- 2016 *Scientist Magazine*, Learning with the lights out
- 2016 *Arizona Daily Star Science Supplement*, Profile of lab honors student Shivani Misra
- 2014 *UA News*, What sleeping babies can tell us
- 2014 *New York Times*, The Truth about Down syndrome
- 2014 *Medical News Today*, Down syndrome: What is the current focus of research?
- 2012 *Arizona Daily Star Science Supplement*, Down Syndrome and Sleep
- 2012 *Washington Post*, Down Syndrome Researchers see Hope for a Pill to Boost Patients' Mental Abilities
- 2012 *UA News*, UA Established as International Center for Down Syndrome Research
- 2012 *UA News*, Sleep Disruption in Toddlers with Down Syndrome May Affect Behavior

SCHOLARLY PRESENTATIONS (limited to tenure track, student trainees underlined)

Invited Symposia and Colloquia

- 2023 Gatlinburg Conference Chair of "Sleep Studies" Session
- 2022 Memory Disorders Research Society Conference, Philadelphia, PA
- 2022 INCLUDE project workshop, NIH
- 2022 The Up of Down: Conference on the Progress of Down Syndrome Research, NY, NY, "The role of sleep for cognitive development in Down syndrome"
- 2021 Wiley Invited Speaker, University of Wisconsin Madison Waisman Center
- 2021 University of Arizona "School closures: Learning and mental health impacts"
- 2020 National Institutes of Health, Clinical Trials Meeting talk on Cognitive Development and Sleep

- 2019 National Institutes of Health, INCLUDE initiative Meeting on Cognitive Development and Sleep
- 2019 UNAM University Colloquium, Mexico City
- 2019 University of York, Sleep Scientists Network Meeting
- 2019 Sackler Winter Conference in Developmental Psychobiology, datablitz talk, Turks and Caicos
- 2018 UCL Department of Education, Sleep Scientists Meeting
- 2018 UCL Functional Imaging Laboratory Memory Group Meeting, London, UK
- 2018 Birkbeck College, Symposium honoring life and work of Annette Karmiloff-Smith, UK
- 2018 Sackler Winter Conference in Developmental Psychobiology, talk for a session on “Memory Development,” , Hawaii
- 2017 Festschrift talk for Dr. Lynn Nadel, University of Arizona, Tucson, AZ
- 2017 Spring Hippocampal Conference, talk for “Fixing memory: interventions that target the hippocampus”, Taormina, Sicily
- 2017 Down Syndrome Guild of Kansas City, “Sleep and Learning in Down syndrome”, invited workshop, Kansas City, Kansas.
- 2016 Festschrift talk for Dr. Bruce Pennington, University of Denver, Denver, CO
- 2016 Birkbeck College, University College London keynote address, "Sleep: The beloved teacher?", London, UK
- 2016 APS co-sponsored integrative science symposium, 24th Biennial Meeting of the International Society for the Study of Behavioural Development, “Sleep as a window into the developing brain”, Vilnius, Lithuania
- 2016 Neuroscience Data Blitz, “Sleep and memory consolidation in Down syndrome”, University of Arizona, Tucson, AZ
- 2016 Cognitive Science Brown Bag Colloquium, “Sleep: The beloved teacher?” University of Arizona, Tucson, AZ
- 2016 F. Hoffman- La Roche Ltd., Clinical Science Team, Webinar Presentation on my research to teams across two countries
- 2015 Down Syndrome Research Foundation, “Sleep and learning in Down Syndrome”, invited workshop, Vancouver, Canada
- 2015 “We may sleep to speak: Sleep and learning in Down syndrome”: Universidad Nacional Autónoma de México, colloquium, Mexico City, Mexico
- 2015 University of Arizona Department of OBGYN Grand Rounds, Tucson, AZ
- 2015 Inaugural meeting of the Trisomy 21 Research Society “We sleep to speak: Sleep, memory, and language in Down syndrome”, Paris, France
- 2015 Down Syndrome Medical Interest Group meeting, “We sleep to speak: Sleep, memory, and language in Down syndrome”, Phoenix, AZ
- 2015 School of Mind, Brain, and Behavior Science Café, “To Sleep, Perchance To Learn – How Sleep Influences Developmental Disorders”, Tucson, AZ
- 2014 Bill and Melinda Gates Foundation, Grand Challenges Annual Meeting, “Sleep quality as a marker of neural development”, Seattle, Washington
- 2014 Universidad Nacional Autónoma de México, Congress on Intellectual Disabilities, “Sleep and cognition in Down syndrome”, Acapulco, México
- 2014 Center of Excellence in Neuroscience colloquium, “Rethinking memory in developmental disabilities: The case of Down syndrome”, Texas Tech, El Paso
- 2014 Wellcome Trust workshop on Alzheimer's disease in Down syndrome: From molecules to cognition, “Rethinking the memory profile in Down syndrome”, Cambridge, UK
- 2013 NIH-sponsored Workshop on Advancing Treatments in Alzheimer's disease in Individuals with Down syndrome, “Assessing cognitive aging and decline in Down syndrome: Lessons learned from the validation of the Arizona Cognitive Test Battery”, Washington, DC
- 2012 Down Syndrome Medical Interest Group meeting, “Cognitive neuroscience approaches to memory impairment in Down syndrome”, Washington, DC

Chaired Symposia and Submitted Talks (selected list since 2012, posters omitted)

- 2023 Gatlinburg Conference, “Impact of exercise on sleep & executive functioning in children with and without DS” (Chair, Luongo Speaker)
- 2023 International Conference on Learning and Memory, “Developmental Transitions in Sleep States: Implications for Memory,” Huntington Beach (Lovos Chair, Speaker)

- 2017 31st Annual Meeting of the Associated Professional Sleep Societies. "To nap or not to nap?: Sleep-dependent memory consolidation in typically and atypically developing preschoolers" (Speaker, first author Spanò), Boston, MA.
- 2017 The 50th Annual Gatlinburg Conference on Intellectual and Developmental Disorders. "Expressive language sampling as an outcome measure for clinical trials" (Speaker: Abbeduto, co-author), San Antonio, TX.
- 2015 International Convention of Psychological Science, symposium on "Understanding cognitive development through the lens of intellectual disability syndromes: Studies of attention, memory, and numerical Cognition" (Chair & Speaker), Amsterdam, the Netherlands
- 2014 International Conference on Infant Studies, symposium on "Understanding infant cognition through the lens of atypical development: Studies of attention, memory, and numerical cognition" (Chair & Speaker), Berlin, Germany
- 2013 Biennial Conference of Society for Research in Child Development, symposium on "Memory for objects in spatial context: Developmental change examined with ERP, MRI and in atypical development" (Chair & Speaker), Seattle, WA
- 2016 International Conference on Memory, "Sleep and memory consolidation in toddlers with Down syndrome" (Speaker, first author Spanò), Budapest, Hungary
- 2016 International Conference on Memory, "Mechanisms of word-learning in typical and atypical development" (Speaker: Sakhon, co-author), Budapest, Hungary
- 2016 International Conference on Memory, "Development of relational memory in middle childhood: Evidence from eye movements" (Speaker: Liu, co-author), Budapest, Hungary
- 2016 International Conference on Memory, "Memory binding in late childhood: eyetracking and neuroimaging studies of typical and atypical development" (Speaker), Budapest, Hungary
- 2015 7th Quadrennial Congress of the World Sleep Federation, "Defining the relations between sleep and the cognitive phenotypes of individuals with Down syndrome: a lifespan developmental perspective" (Speaker: Spanò, co-author)
- 2015 Biennial Conference of Society for Research in Child Development, symposium on "A new approach to memory development" (Speaker), Philadelphia, PA
- 2014 Psychonomic Society meeting, symposium on "New ideas about memory development" (Speaker), Long Beach, California
- 2013 Biennial Conference of Society for Research in Child Development, symposium on "The role of sleep in learning and memory in typical and atypical development" (Speaker), Seattle, WA
- 2013 27th Annual Meeting of the Associated Professional Sleep Societies, "Sleep spindle activity in Down syndrome: Effects of obstructive sleep apnea and cognitive correlates" (Speaker: G. Spanò, co-author), Baltimore, MD
- 2013 Workshop on Cognition in Down Syndrome Molecular, Cellular and Behavioral Features and the Promise of Pharmacotherapies, "Age effects on executive function in a multi-site sample of youth with Down syndrome" (co-author, Speaker: N.R. Lee), Washington, DC
- 2013 Emory University STEM Research and Career Symposium, "Sleep, cognition, and behavior in toddlers with Down syndrome" (co-author, Speaker: U. Tooley), Atlanta, GA

Interdepartmental Talks/Workshops

- 2023 First generation Medical Directive talk for pre-Med students
- 2023 Udall Center for Public Policy "Memory reports: Who do we believe and why?"
- 2023 Women in Science Honors Proseminar, UA Honors College
- 2020 Professional Roles Seminar, Sonoran UCEDD
- 2020 Talk for UA Women in STEM group
- 2018 "Sleep and learning in Down syndrome" Behavioral Sleep Medicine Seminar, Banner University Medical Center
- 2017 "Sleep and learning in Down syndrome" Talk for Psychiatry Residents, Banner University Medical Center
- 2016 "Sleep and learning in Down syndrome" Faculty data blitz for the Inaugural UA Sleep Conference
- 2015 "Sleep and learning in Down syndrome" Sleep lecture series, Pulmonary Research Conference, Banner University Medical Center
- 2015 Family and Community Medicine Sonoran UCEDD interdisciplinary trainee seminar (FCM 696A)
- 2014 Speech Language and Hearing Sciences "Social Communication for Young Adults", workshop on diagnostic assessment in autism (SLHS 299)

- 2014 Family and Community Medicine Sonoran UCEDD interdisciplinary trainee seminar (FCM 696A)
- 2013 NIH Minority Access to Research Careers Program Colloquium (BIOC 395A)
- 2013 Family and Community Medicine Sonoran UCEDD interdisciplinary trainee seminar (FCM 696A)
- 2013 Speech Language and Hearing Sciences “Social Communication for Young Adults”, workshop on diagnostic assessment in autism (SLHS 299)
- 2013 Family Studies and Human Development: Problems in Child & Adolescent Development, seminar on intellectual disabilities (427C)

GRANTS

Federal and International

- 2022-2024 DEtermining Capacity and Informing Down syndrome Assent Strategies (DECIDAS)
NIH-NICHD R21, Co-I (PI: Combs), \$422,125, 5% effort
- 2022-2025 Medications for Obstructive Sleep Apnea to Improve Cognition in Children with Down Syndrome (MOSAIC DS)
NIH-NHLBI R33, Co-I (PI: Combs), \$670,575, 10% effort
- 2022-2024 Building capacity to include people with IDD in health-related research
Patient-Centered Outcomes Research Institute (P-CORI, co-I, PI: Shirai. Y), \$250,000, 3% effort
- 2016-2023 Memory measures for clinical trials in Down syndrome and Fragile X syndrome
NIH/NICHD RO1, PI, \$2,980,267, 20% effort
- 2019-2023 Memory measures for clinical trials in Down syndrome and Fragile X syndrome
NIH/NICHD Competitive Supplemental RO1, PI, \$506,640 10.4% effort
- 2016-2023 Memory measures for clinical trials in Down syndrome and Fragile X syndrome
NIH/NICHD diversity supplement for Annalysa Lovos, PI, \$56,000, 0% effort
- 2019-2023 fNIRS as an outcome measure of the prefrontal hemodynamic response in Down syndrome
NIH/NICHD R21, MPI, \$61,252 , (PI: Raitano-Lee), 10.4% effort
- 2019-2023 Early risk for ADHD symptoms in young children with Down syndrome
NIH/NICHD R21, co-I (PI: Fidler), \$21,790, 5% effort
- 2020-2023 Neural correlates of sleep and memory formation in Down Syndrome
Fondation Jérôme Lejeune, PI Lovos (grad student under my supervision), \$45,000, 0% effort
- 2020-2023 Exercise as an intervention for sleep and memory in Down syndrome
Fondation Jérôme Lejeune, PI Luongo (grad student under my supervision), \$45,000, 0% effort
- 2020-2023 Autism Intervention Research Network on Physical Health, CRE (PI Wendy-Parent Johnson), \$25,000, 3% effort

State and Local

- 2023-2024 Bio5 and Udall Foundation Fellowship “Understanding children's abuse reporting: neuroscience and policy analysis,”
PI, \$45,000
- 2022-2023 Refugee Resettlement Services for Arizonans with Disability, ADDPC grant, co-I, (PI Armin), \$75,000

2021-2022 Program Evaluation for Sexual Abuse Prevention, AHCCS contract, (PI Parent-Johnson), \$25,000

Completed grants

2017-2019 Enhancement Grant to study sleep and memory in patients with hippocampal amnesia
Wellcome Trust, Collaborator (PI: Maguire), 154,640.00 £, 0% effort

2013-2018 Expressive language sampling as an outcome measure
NIH/NICHD RO1, Co-I and PI of Subcontract (PI: Abbeduto), \$595,927, 10.4% effort

2014-2018 Brain development, sleep, and learning in Down syndrome
Lumind Research Down Syndrome Foundation, PI (co-Is: Clark, Cowen), \$695,000, 16.6% effort

2018-2020 How does sleep alter cognitive development in atypical populations
Jerome Lejeune Foundation, PI (co-Is: Hughes), \$49,199, 5% effort

2016 Sleep and circadian function as biomarkers of Alzheimer's Disease risk in Down syndrome.
Arizona Alzheimer's Research Consortium, PI (co-PI Fernandez), \$13,000, 1% effort

2015-2016 Proof of concept funding for a memory assessment for preschool-aged children and special populations
Tech Launch Arizona, PI, \$75,000, no faculty salary

2015-2017 Sleep and cognition in toddlers with Down syndrome
Fondation Jérôme Lejeune, co-I with my student Spano (PI), \$54,000, 3% effort

2015-2016 Pre-clinical cognitive measurement validation study for school age children with Down syndrome (BP29589)
F. Hoffman-La Roche Ltd., contract PI (PI, co-I: Sydney Rice), \$96,145, 6% effort

2015-2016 Sleep quality as a marker of neural development
Bill and Melinda Gates Foundation, PI, \$100,000, 3.8% effort

2014 Request to establish the "Molly Lawson graduate fellowship in Down syndrome research"
Molly Lawson Foundation, PI, \$18,000, 0% effort

2014 Florbetapir PET, and MRI in Down syndrome Individuals with and without Alzheimer's Dementia
Arizona Alzheimer's Research Consortium, co-PI (co-PIs Sabbagh, Chen & Reiman), \$10,000, 8% effort

2014 APOE Genotype, sleep apnea, and cognitive development in Down syndrome
Arizona Alzheimer's Research Consortium, PI, \$10,000, 6% effort

2012-2014 High-density EEG biomarkers of memory dysfunction in Down syndrome
Fondation Jérôme Lejeune, Co-I (PI: Nadel), \$46,503, 5% effort

2014-2015 The Down syndrome phenotype project
Lumind Foundation, PI of Subcontract (PIs: Reeves and Sherman), funding since 2009, \$42,000, 8% effort

2011-2014 Sleep disturbance, cognition, and behavior in Down syndrome
Thrasher Research Fund, Co-I (PI: Nadel, with Co-I Bootzin), \$352,330, 8% effort

2008-2014 Neuropsychology of Down syndrome
Down syndrome Research and Treatment Foundation, co-I (PI Nadel), \$1,018,719, 8-50% effort

2012-2013 Pre-clinical cognitive measurement validation study for Down syndrome (BP25612)
F. Hoffman-La Roche Ltd., contract PI (co-Is: Rice and Nadel), \$41,959, 6% effort

2010-2012 Aging and dementia in Down syndrome: Neuropsychological profile and intervention
Fondation Jérôme Lejeune, PI

2008-2010 Beyond 21: Factors affecting neuropsychological development in Down syndrome
National Down Syndrome Society Epstein award, PI

2000-2003 The development of spatial cognition in autism
NIH/NIMH National Research Service Award

Courses Taught and Educational Instruction

2022 History and Systems of Psychology, graduate level

2022 Certificate in Inclusive STEM teaching
 2020-present Director of Disability Policy Fellowship Course, Sonoran UCEDD, graduate and undergraduate level
 2019 Honors Proseminar
 2010- present Developmental Cognitive Neuroscience of Developmental Disorders
 2016-present Sleep and Sleep Disorders
 2012- present Single Semesters of Lifespan Development, Memory Development (graduate), Memory and Cognition, Developmental Psychology
 2000-2002 Developmental Cognitive Neuroscience
TRAINEES (list excludes names of ~150 undergraduate, highschool, and international interns)

Graduate Students

Hailey Van Vorce, PhD expected 2028
 Alison Luongo, MA, PhD, Clinical Psychology, expected 2024
 Annalysa Lovos, MA, PhD, Cognition and Neural Systems, expected 2024
 Payal Anand, PhD, 2018, Family Studies, Current Position: Career Track Faculty, University of Arizona
 Stella Sakhon, PhD, 2018, Cognition and Neural Systems, Current Position: Psychology Instructor, Pasadena City College
 Goffredrina Spanò, PhD, 2017, Cognition and Neural Systems, Kingston University London, Lecturer

Postdoctoral Fellows

Anne Van Hoogmoed, PhD, Current Position: Assistant Professor (tenure track) Radboud University, Nijmegen
 Caron Clark, PhD, Associate Professor (tenured), University of Nebraska, Lincoln
 Katharine Hughes, PhD, Lecturer, Goldsmiths University of London

REFERENCES

1. Erica McFadden, former Arizona Developmental Disabilities Planning Council Director (colleague on policy projects)
2. Len Abbeduto, Director, MIND Institute (research collaborator for 10 years)
3. Debbie Fidler, Professor, Colorado State University Fort Collins (long-time collaborator)
4. Bruce Pennington, University of Denver (graduate advisor)
5. Matthias Mehl, Professor in Psychology Department and Director of Social Psychology program (aware of my administrative and collegial nature through committees and as concurrent directors of graduate programs)
6. Lynn Nadel, Emeritus Professor of Psychology, University of Arizona