JULIA ANNE LEONARD

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April 2024

EMPLOYMENT

Assistant Professor, Department of Psychology — July 2021 - Present
Yale University, New Haven, CT

MindCORE postdoctoral fellow — Sept 2018 – June 2021
University of Pennsylvania, Philadelphia, PA
Advisors: Dr. Allyson Mackey and Dr. Angela Duckworth

EDUCATION

PhD in Brain and Cognitive Sciences — Sept 2013 – May 2018
Massachusetts Institute of Technology, Cambridge, MA
Advisors: Dr. John Gabrieli and Dr. Laura Schulz
Thesis: Social Influences on Children's Learning

B.A. Neuroscience and Behavior — Sept 2007-May 2011
Wesleyan University, Middletown, CT
Phi Beta Kappa, High Honors
Advisor: Anna Shusterman
Honors Thesis: The Effects of Touch on Compliance in Preschool-Age Children

FUNDING

Jacobs Foundation Seed-Funding: ($133,000), Co-PI — 2023-2025
"Understanding motivational variability in online learning platforms"
NSF ECR-EDU Core Research Grant ($1,756,720), "Over-engaged parenting and science achievement in early childhood" — 2023-2028
Yale Education Studies Faculty Research Grant ($10,000) — 2022-2023
CIFAR-Jacobs Foundation Seed-Funding ($50,000), Co-PI — 2022-2023
"Growing up in Times of Inequality: A Global Interdisciplinary Approach"
Character Lab Research Network Grant ($7,500) — 2022
Yale Planetary Solutions Project seed grant proposal ($80,000), Co-PI — 2022-2024
Jacobs Foundation Early Career Research Fellowship ($174,000) — 2022-2025
Character Lab Research Network Grant ($40,000) — 2021
MindCORE Postdoctoral Fellowship, University of Pennsylvania ($191,000) — 2018-2021
NSF Graduate Student Research Fellowship — 2014-2017

HONORS AND AWARDS

Cognitive Development Society, Early Career Symposium — 2024
Jacobs Foundation Conference, Young Scholar — 2023

Jacobs Foundation Early Career Research Fellow	2022-2024
Walle Nauta Award for Continued Dedication to Teaching, MIT	2017, 2018
Neurohackweek Fellow, University of Washington eScience Institute	2016, 2017
UCLA-Semel Institute Neuroimaging Training Program Fellow	2016
Summer Institute in Cognitive Neuroscience Fellow	2015
Graduate Student Summer Travel Award, MIT	2015
Latin America School for Education, Cognition, and Neural Sciences Fellow	2015, 2018
Ida M. Green Graduate School Fellowship, MIT	2013
High Honors in Neuroscience and Behavior, Wesleyan University	2011
Connecticut Higher Education Community Service Award Nominee	2011
Dean's List, Wesleyan University	2008-2011
Phi Beta Kappa, Chapter of Wesleyan University	2010

UNDER REVIEW

[+]*Indicates trainee*

McDermott, C., Taylor, K., Lydon-Staley, D., **Leonard, J.A.**, & Mackey, A.P. (R&R Developmental Science). Sensitivity to psychosocial influences at age 3 predicts mental health in middle childhood

[+]Asaba, M., [+]Santos, M., Jara-Ettinger, J., & **Leonard, J.A.** (under review). Adolescents are most motivated by encouragement from someone who knows their abilities and the domain.

[+]Asaba, M., Davis, I., **Leonard, J.A.,** & Jara-Ettinger, J.E. (under review). Detecting social biases using mental state inference.

[+]Zhang, F., McDougle, S., & **Leonard, J.A.** (under review). People accurately predict the shape of skill learning curves.

[+]Shachnai, R., [+]Asaba, M., Hu, L., & **Leonard, J.A.** (under review). Pointing out learning opportunities reduces over-parenting.

Leonard, J.A. & Sommerville, J. (under review). Returning to reality: Why optimism declines in childhood.

Trevers, I.N., Marusak, H., Decker, A., Kucyi, A., Hubbard, N.A., Bauer, C.C., **Leonard, J.A.**, Grotzinger, H., Giebler, M.A., Torres, Y.C., Imhof, A., Romero, R., Calhoun, V.D., & Gabrieli, J.D.E. (under review). Dynamic functional connectivity correlates of trait mindfulness in early adolescence.

Serko, D., **Leonard, J.A.,** & Ruggeri, A. (under review). Children strategically decide what to practice.

PUBLICATIONS

Decker, A., Meisler, S. L., Hubbard, N., Bauer, C., **Leonard, J.A.,** Imhoff, A., Giebler, M., Grotzinger, H., Camacho Torres, Y., Romeo, R., & Gabrieli, J.E. (2023). Striatal and behavioral responses to reward vary by socioeconomic status in adolescents. *Journal of Neuroscience*. https://doi.org/10.1523/JNEUROSCI.1633-23.2023.

Leonard, J.A., Cordrey, S., Liu, H.S., & Mackey, A.P. (2022). Young children calibrate effort based on the trajectory of their performance. *Developmental Psychology,* 59(3).

Tooley, U.A., Park, A.T., **Leonard, J.A.**, Boroshok, A.L., McDermott, C.L., Tisdall, D., Bassett, D., & Mackey, A.P. (2022). The age of reason: Functional brain network development during childhood. *The Journal of Neuroscience*, 42(44).

Park, A., Richardson, H., Tooley, U., McDermott, C., Boroshok, A.L., Ke, A., **Leonard, J.A.**, Tisdall, D.M., Deater-Deckard, K., Edgar, C.J., & Mackey, A.P. (2022). Early stressful experiences are associated with reduced neural responses to naturalistic emotional and social content in children. *Developmental Cognitive Neuroscience,* 57.

Hart, Y., Kosoy, E., Liquin, E., **Leonard, J.A.,** Mackey, A.P., & Gopnik, A. (2022) .The development of creative search strategies. *Cognition,* 225. https://doi.org/10.1016/j.cognition.2022.105102

Leonard, J.A., Lydon-Staley, D.M., Sharp, S., Liu, H.Z., Park, A.T., Bassett, D.S., Duckworth, A.L., & Mackey, A.P. (2021) Daily fluctuations in young children's persistence. *Child Development,* 93(2). https://doi/10.1111/cdev.13717

Chuey, A., Asaba, M., Bridgers, S., Carrillo, B., Dietz, G., Garcia, T., **Leonard, J.A.,** Liu, S., Merrick, M., Radwan, S., Stegall, J., Velez, N., Woo, B., Wu, Y., Zhou, X., Frank, M.C, & Gweon, H. (2021). Examining the Validity of Online Methods for Developmental Research. *Frontiers special issue on Empirical Research at a Distance: New Methods for Developmental Science,* 12. https://doi.org/10.3389/fpsyg.2021.734398

Kominsky, J.F., Begus, K., Bass, I., Colantonio, J., **Leonard, J.A.,** Mackey, A., & Bonawitz, E. (2021). Organizing the methodological toolbox: Lessons learned from implementing developmental methods online. *Frontiers special issue on Empirical Research at a Distance: New Methods for Developmental Science,* 12. https://doi.org/10.3389/fpsyg.2021.702710

Leonard, J.A., Duckworth, A.L., Schulz, L.E., & Mackey, A.P. (2021). Leveraging cognitive science to foster children's persistence. *Trends in Cognitive Science,* 25(8). https://doi.org/10.1016/j.tics.2021.05.005

Romeo, R.R.***, Leonard, J.A.*,** Robinson, S.T., Mackey, A.P., West, M.R., & Gabrieli, J.D.E. (2021). Replication and extension of a family-based training program to improve cognitive abilities in young children. *Journal of Research on Educational Effectiveness,* 14 (4). https://doi.org/10.1080/19345747.2021.1931999

Romeo, R.R., **Leonard, J.A**., Grotziner, H.M., Robinson, S.T., Takada, M.E., Mackey, A.P., Scherer, E., Rower, M.L., West, M.R., Gabrieli, J.D.E. (2021). Neuroplasticity associated with conversational turn-taking following a family-based intervention. *Developmental Cognitive Neuroscience,* 49(100967). https://doi.org/10.1016/j.dcn.2021.100967

Park, A.T., Tooley, U.A., **Leonard, J.A.**, Boroshok, A.L., McDermott, C.L., Tisdall, D., & Mackey, A.P. (2021). Early childhood stress is associated with blunted development of ventral tegmental area functional connectivity. *Developmental Cognitive Neuroscience,* 47(100909). https://doi.org/10.1016/j.dcn.2020.100909

Leonard, J.A., Martinez, D.N., Dashineau, S., Park, A.T. & Mackey, A.P. (2021). Children persist less when adults take over. *Child Development,* 91(4). https://doi.org/10.1111/cdev.13305

Leonard, J.A., Garcia, A., & Schulz, L.E. (2020). How adults' actions, outcomes, and testimony affect preschoolers' persistence. *Child Development*, 91(4). https://doi.org/10.1111/cdev.13305

Leonard, J.A., Romeo, R.R**.**, Park, A.T., Takada, M.E., Robinson, S.T., Grotzinger, H., Last, B.S., Finn, A.S., Gabrieli, J.D.E., & Mackey, A.P. (2019). Associations between cortical thickness and reasoning vary by socioeconomic status in early childhood and adolescence. *Developmental Cognitive Neuroscience,* 36(100641). https://doi.org/10.1016/j.dcn.2019.100641

Romeo, R.R., Segaran, J., **Leonard, J.A**., Robinson, S.T., West, M.R., Mackey, A.P., ... & Gabrieli, J.D.E. (2018). Language exposure relates to structural neural connectivity in childhood. *Journal of Neuroscience*, 0484-18. https://doi.org/10.1093/scan/nsy017

Park, A.T., **Leonard, J.A.**, Saxler, P.K., Cyr, A.B., Gabrieli, J.D.E., & Mackey, A.P. (2018). Amygdala–medial prefrontal cortex connectivity relates to stress and mental health in early childhood. *Social Cognitive and Affective Neuroscience*, *13*(4), 430-439. https://doi.org/10.1093/scan/nsy017

Romeo, R.R., **Leonard, J.A.,** Robinson, S.T., Rowe, M.L., Mackey, A.P., Gabrieli, J.D.E. (2017). The neural correlates of the "30 million word gap": Childhood conversational exposure is associated with language-related brain function. *Psychological Science, 29*(5), 700-710. doi:10.1177/0956797617742725

Leonard, J.A., Lee, Y., & Schulz, L.E. (2017). Infants make more attempts to achieve a goal when they see adults persist. *Science, 357*(6357), 1290-1294. doi:10.1126/science.aan2317

Shusterman, A., Cheung, P., Taggart, J., Bass, T., **Leonard, J.A.,** & Schwartz, A. (2017). Conceptual correlates of counting: Children's spontaneous matching and tracking of large sets reflects their knowledge of the cardinal principle. *The Journal of Numerical Cognition,* 3(1), 1-30. doi:10.5964/jnc.v3i1.65

Leonard, J.A., Flournoy, J., Lewis-de los Angeles, C., & Whitaker, K. (2017). How much motion is too much motion? Determining motion thresholds by sample size for reproducibility in developmental resting-state MRI. *Research Ideas and Outcomes,* 3: e12569. doi:10.3897/rio.3.e12569

Finn, A.S., Minas, J., **Leonard, J.A.,** Mackey, A.P., Salvatore, J., Goetz, C., West, M., Gabrieli C.F.O., & Gabrieli, J.D.E. (2016). Functional brain organization of working memory in adolescents varies in relation to family income and academic achievement. *Developmental Science.* doi:110.1111/desc.12450

Cain, M.S., **Leonard, J.A.,** Gabrieli, J.D.E., & Finn, A.S. (2016). Multi-media tasking in adolescents. *Psychonomic Bulletin & Review,* 1-10. doi:10.3758/s13423-016-1036-3

Finn, A.S., Kalra, P.B., Goetz, C., **Leonard, J.A.,** Sheridan, M.A., & Gabrieli, J.D.E. (2016). Developmental dissociation between the maturation of procedural memory and declarative memory. *Journal of Experimental Child Psychology, 142,* 212-220. doi:10.1016/j.jecp.2015.09.027

Leonard, J.A., Mackey, A.P., Finn, A.S., & Gabrieli, J.D.E. (2015). Differential effects of socioeconomic status on declarative and procedural memory. *Frontiers in Human Neuroscience*, 9:554. Doi:10.3389/fnhum.2015.00554

Mackey, A.P., Finn, A.S., **Leonard, J.A.,** Jacoby-Senghor, D.S., West, M.R., Gabrieli, C.F., & Gabrieli, J.D.E. (2015). Neuroanatomical correlates of the income-achievement gap. *Psychological Science, 26*(6), 925-933. doi:0956797615572233

Chai, X.J., Hirshfeld-Becker, D., Biederman, J., Uchida, M., Doehrmann, O., **Leonard, J.A.,** ... & Whitfield-Gabrieli, S. (2015). Altered intrinsic functional brain architecture in children at familial risk of major depression. *Biological Psychiatry*, *80(11), 849-858.* doi:10.1016/j.biopsych.2015.12.003

Chai, X. J., Hirshfeld-Becker, D., Biederman, J., Uchida, M., Doehrmann, O., **Leonard, J.A.,** ... & Gabrieli, J. D. (2015). Functional and structural brain correlates of risk for major depression in children with familial depression. *NeuroImage: Clinical, 8,* 398-407. doi:10.1016/j.nicl.2015.05.004

Leonard, J.A., Berkowitz, T., & Shusterman, A. (2014). The effect of friendly touch on delay-of-gratification in preschool children. *The Quarterly Journal of Experimental Psychology,* 1-11, doi:10.1080/17470218.2014.907325

Plummer, D.B., Galla, B.M., Finn, A.S., Patrick, S.D., Meketon, D., **Leonard, J.A.** … Duckworth, A.L. (2014). A behind-the-scenes guide to school-based research. *Mind, Brain, and Education, 8*(1), 15-20. doi:10.111mbe.12040

Finn, A.S., Kraft, M., West, M., **Leonard, J.A.,** Bisk, C., Martin, R., Sheridan, M.A., Gabrieli, C.F.O., & Gabrieli, J.D.E. (2014). Cognitive skills, student achievement tests, and schools. *Psychological Science, 25*(3), 736-44. doi: 10.1177/0956797613516008

IN PREPARATION

[+]*Indicates trainee*

Leonard, J.A., Garcia, T., Bennet-Pierre, G., & Gweon, H. (in prep). Children infer relative competence based on visual cues relate to effort and performance.

[+]Zhang, F., [+]Carrillo, B., & **Leonard, J.A.** (in prep). Children's developing understanding of learning as improvement over time

PEER-REVIEWED CONFERENCE PROCEEDINGS (6-page papers)

[+]*Indicates trainee*

[+]Zhang, F., [+]Carrillo, B., & **Leonard, J.A.** (2023). Children's developing understanding of learning as improvement over time. *Proceedings of the 45th Annual Conference of the Cognitive Science Society.*

[+]Asaba, M., Davis, I., **Leonard, J.A.,** & Jara-Ettinger, J.E. (2023). Detecting social biases using mental state inference. *Proceedings of the 45th Annual Conference of the Cognitive Science Society.*

[+]Asaba, M., Santos, M., Jara-Ettinger, J.E., & **Leonard, J.A.** (2022). Adolescents are most motivated by encouragement from someone who knows their abilities and the domain. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

[+]Zhang, F., McDougle, S., & **Leonard, J.A.** (2022). Thinking about doing: Representations of skill learning. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

Serko, D., **Leonard, J.A.,** & Ruggeri, A. (2022). Developmental changes in children's training strategies. *Proceedings of the 44th Annual Conference of the Cognitive Science Society.*

Leonard, J.A., Sandler, J., Nerenberg, A., Rubio, A., Schulz, L.E., & Mackey, A. P. (2020). Preschoolers are sensitive to their performance over time. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society.*

Leonard, J.A., Bennett-Pierre, G., & Gweon, H. (2019). Who is better? Preschoolers infer relative competence based on efficiency of process and quality of outcome. *Proceedings of the 41st Annual Conference of the Cognitive Science Society.*

CONFERENCE PRESENTATIONS

[+]*Indicates trainee*

[+]Shachnai, R., [+]Asaba, M., Hu, L., & **Leonard, J.A.** (2024). *Pointing out learning opportunities reduces over-parenting.* International Mind, Brain and Education Society Conference, Leuven, Belgium.

Leonard, J.A. (2024). How caregiver's influence children's persistence. Early Career Symposium, Cognitive Development Society, Pasadena, CA.

[+]Wang, E., Radovanovic, M., Sommerville, J. & **Leonard, J. A.** (2024) *Practice what you preach: Consistent messages about the value of effort foster children's persistence.* Cognitive Development Society, Pasadena, CA.

McDermott, C., Beavers, C., **Leonard, J.A.,** & Mackey, A. P. (2023). *Child Sensitivity to Parent Praise Varies by Parent Mental Health.* Society for Research in Cognitive Development, Salt Lake City, UT.

[+]Asaba, M., Santos, M., Jara-Ettinger, J., & **Leonard, J.A.** (2022). *Adolescents are most motivated by encouragement from someone who knows their abilities and the domain.* The Annual Meeting of the Cognitive Science Society, Toronto, CAN.

[+]Zhang, F., McDougle, S., & **Leonard, J.A.** (2022). *Thinking about doing: Representations of skill learning.* The Annual Meeting of the Cognitive Science Society, Toronto, CAN.

Leonard, J.A. (2022) *Discussant: Children's motivation in STEM.* Cognitive Development Society, Madison, WI.

Leonard, J.A., Liu, H., Cordrey, S., & Mackey, A.P. (2021). *Children stick with a challenge when their performance improves over time.* Society for Research in Cognitive Development, Virtual Conference.

Leonard, J.A., Bennett-Pierre, G., Garcia, T. & Gweon, H. (2021). *Young children infer relative competence based on efficiency of process and quality of outcome.* Society for Research in Cognitive Development, Virtual Conference.

Leonard, J.A., Thomas, O., Pelz, M., Braham, E. (2020)[*]. *Children and challenge: Using research to inform museum experiences.* InterActivity: Association of Children's Museums Conference, St. Louis, MO.

Romeo, R.R., **Leonard, J.A**., Grotzinger, H., Robinson, S.T., Takada, M., Segaran, J., Mackey, A.P., Rowe, M.L., Gabrieli, J.D.E. (2019). *Cortical plasticity associated with a parent-implemented language intervention.* FLUX Congress, New York, NY.

Romeo, R.R., **Leonard, J.A.,** Grotzinger, H., Robinson, S.T., Takada, M., Segaran, J., Mackey, A.P., Rowe, M.L., Gabrieli, J.D.E. (2019). *Cortical plasticity associated with a parent-implemented language intervention.* Society for the Neurobiology of Language, Helsinki, Finland.

Leonard, J.A., Bennet-Pierre, G., & Gweon, H. (2019). *Who is better? Preschoolers infer relative competence based on efficiency of process and quality of outcome.* The Annual Meeting of the Cognitive Science Society, Montreal, CAN.

Leonard, J.A., Romeo, R.R., Park, A.T., Takada, M.E., Robinson, S.T., Grotzinger, H., Last, B.S., Finn, A.S., Gabrieli, J.D.E., & Mackey, A.P. (2018). *The neural correlates of reasoning differ by socioeconomic status in development.* Society for Research in Cognitive Development, Baltimore, MD.

Romeo, R.R., **Leonard, J.A.**, Robinson, S.T., Rowe, M.L., Mackey, A.P., Gabrieli, J.D.E. (2018). *Neural plasticity associated with a parent-implemented language intervention.* Boston University Conference on Child Language Development, Boston, MA.

[*] Cancelled due to Covid-19

Leonard, J.A. Garcia, A., Chew, K., & Schulz, L.E. (2018). *Practice what you preach: Children integrate adults' outcomes, actions, and testimony to decide how hard to try*. The International Congress of Infant Studies, Philadelphia, PA.

Leonard, J.A. & Schulz, L.E. (2018). *Social influences on children's motivation*. Association for Psychological Sciences, San Francisco, CA.

D'Mello A., Romeo, R.R., **Leonard, J.A.**, Mackey, A.P., Gabrieli, J.D.E. (2018). Cerebellar contributions to children's language processing. In nanosymposium: Human cognition and behavior: Neurocognitive development. *Society for Neuroscience*, San Diego, CA.

Leonard, J.A., Romeo, R.R., Mackey, A.P., Takada, M., Robinson, S., Gabrieli, J.D.E., & Schulz, L.E. (2017). *Predicting and intervening on cognitive outcomes in young children*. Society for Research in Cognitive Development, Austin, TX.

Romeo, R.R., **Leonard, J.A.,** Robinson, S.T., Rowe, M.L., Mackey, A.P., Gabrieli, J.D.E. (2017). *Children's language exposure predicts neural structure and function during language processing, independent of SES*. Society for Research in Cognitive Development, Austin, TX.

Leonard, J.A., Gabrieli, J.D.E., & Schulz, L.E. (2016). *Socioeconomic status and exploratory play in early childhood*. Active Learning Workshop at the Cognitive Science Society, Philadelphia, PA.

Leonard, J.A., & Schulz, L.E. (2015). *If at first you don't succeed: The role of evidence in children's persistence*. More On Development, Columbus, OH.

Leonard, J.A., Floyd, S., Schulz, L.E. (2015). *The development of implicit theories of effort*. The Society for Research in Cognitive Development, Philadelphia, PA.

Mackey, A.P., **Leonard, J.A.,** Finn, A.S., Gabrieli, J.D.E. (2014). *Hippocampal structure and connectivity is linked to standardized test score improvement*. Society for Neuroscience, Washington, DC.

Finn, A.S., **Leonard J.A.**, Mackey, A.P., Goetz, C.A., Salvatore, J., De los Angeles, C., Sheridan, M.A., Gabrieli, C.F.O., & Gabrieli, J.D.E. (2013). *The neural substrates associated with improvement on standardized exams during middle school.* The Society for Neuroscience, San Diego, CA.

CONFERENCE POSTERS

[+]*Indicates trainee*

[+]Shachnai, R., [+]Asaba, M., Hu, L., & **Leonard, J.A.** (2024). *Pointing out learning opportunities reduces over-parenting*. Cognitive Development Society, Pasadena, CA.

[+]Masetti, N., [+]Shachnai, R., Mackey, A.P. & **Leonard, J.A.** (2024). *Relationships between parental taking over and demographics*. Cognitive Development Society, Pasadena, CA.

[+]Zhang, F., [+]Carrillo, B., & **Leonard, J.A.** (2024). *Developmental changes in children's predicted learning curves.* Cognitive Development Society, Pasadena, CA.

McDermott, C., Taylor, K., Lydon-Staley, D., **Leonard, J.A.**, & Mackey, A.P. (2024). *Sensitivity to psychosocial influences at age 3 predicts mental health in middle childhood*. American Psychological Association, Seattle, WA.

Foster, J., Cohodes, E., **Leonard, J.A.,** Goldfarb, E., & Gee., D. (2024). *Affective Schema-Based Memory Processes as Mechanisms Linking Early-Life Stress and Stress-Related Psychopathology*. Society for Affective Sciences, New Orleans, LA.

[+]Shachnai, R., [+]Asaba, M., Hu, L., & **Leonard, J.A.** (2023). *Parents take over less when they think their young child is learning*. The Annual Meeting of the Cognitive Science Society, Sydney, Australia.

⁺Zhang, F., ⁺Carrillo, B., & **Leonard, J.A.** (2023). *Children's developing understanding of learning as improvement over time.* The Annual Meeting of the Cognitive Science Society, Sydney, Australia.

⁺Asaba, M., Davis, I., **Leonard, J.A.,** & Jara-Ettinger, J., (2023). *Detecting social biases using mental state inference. The Annual Meeting of the Cognitive Science Society*, Sydney, Australia.

⁺Zhang, F., ⁺Carrillo, B., & **Leonard, J.A.** (2023). *Developmental differences in children's predicted learning curves.* Society for Philosophy and Psychology, Pittsburgh, PA.

Foster, J., Cohodes, E., **Leonard, J.A.,** Goldfarb, E., & Gee., D. (2023). *Associations between Early-Life Stress and Affective Schema-Based Memory Processes.* Association for Psychological Sciences, Washington, DC.

⁺Asaba, M., Zhang, M., & **Leonard, J.A.** (2023). *Children's representations of others' gender bias.* Society for Research in Cognitive Development, Salt Lake City, UT.

McDorman, A. S., Gilmer, M., Taylor, E., Alexander, V., **Leonard, J.A**., Gabrieli, J.D.E., & Romeo, R. (2023). *With Infinite Affection: Caregiving as Protective of Children's Social-Emotional Skills Against Household Chaos or Low SES.* Society for Research in Cognitive Development, Salt Lake City, UT.

Serko, D., **Leonard, J.A.,** Ruggeri, A. (2022). *Developmental changes in children's training strategies.* The Annual Meeting of the Cognitive Science Society, Toronto, CAN.

⁺Asaba, M., Santos, M., Jara-Ettinger, J., & **Leonard, J.A.** (2022). *Who is motivating? Students evaluate encouragement based on speaker's knowledge.* Cognitive Development Society, Madison, WI.

⁺Shachnai, R., ⁺Asaba, M., Santos, M., & **Leonard, J.A.** (2022). *Why parents intervene in their young children's struggles.* Cognitive Development Society, Madison, WI.

Serko, D., **Leonard, J.A.,** Ruggeri, A. (2022). *Older but not younger: Children adapt their decisions about which game to practice more to maximize test performance.* Cognitive Development Society, Madison, WI

⁺Asaba, M., Nerenberg, A., **& Leonard, J.A.** (2021). *Who is motivating? Students evaluate encouragement based on speaker's knowledge.* The Annual Meeting of the Cognitive Science Society, Virtual conference.

Park, A.T., **Leonard, J.A.,** Tooley, U.A., Richardson, H., Ke, A., Tisdall, D., Edgar, C., & Mackey, A.P. (2020). *Neural activation to naturalistic emotional events in young children.* FLUX Congress, Santa Rosa, CA (Virtual conference).

Leonard, J.A., Sandler, J., Nerenberg, A., Rubio, A., Schulz, L.E., & Mackey, A. P. (2020). *Preschoolers are sensitive to their performance over time.* The Annual Meeting of the Cognitive Science Society, Toronto, CAN (Virtual conference).

Tooley, U. A., Park, A. T., **Leonard, J. A**., Boroshok, A. L., Bassett, D. S., & Mackey, A. P. (2020). *Functional network development during early childhood.* (2020). Organization for Human Brain Mapping Equinox, (Virtual conference).

Park, A. T., Tooley, U. A., Boroshok, A. L., **Leonard, J. A.,** & Mackey, A. P. (2020). *Early childhood stress is associated with blunted development of ventral tegmental area connectivity.* Human Brain Mapping Annual Meeting, Montréal, Québec, Canada.

Leonard, J.A., Martinez, D.N., Dashineau, S., & Mackey, A.P. (2019). *Let me do it myself: The relationship between intrusive behavior in adults and young children's persistence.* Child Development Society, Louisville, KT.

Martinez, D.N., **Leonard, J.A.,** & Mackey, A.P. (2019). *Children's persistence is related to how much they attend to their parent's effortful actions.* Child Development Society, Louisville, KT.

Leonard, J.A., Sorcher, L., Forde, J., Fergeler, S., Tooley, U.A., Park, A.T., Hart, Y., & Mackey, A.P. (2019). *Associations between brain development and creativity in early childhood.* FLUX Congress, New York, NY.

Park, A.T., **Leonard, J.A.,** Tooley, U.A., Boroshok, A.L., & Mackey, A.P. (2019). *Stress exposure in early childhood relates to altered midbrain functional connectivity.* FLUX Congress, New York, NY.

Tooley, U.A., Park, A.T., **Leonard, J.A.,** Bassett, D.S., & Mackey, A.P. (2019). *Functional network development in early childhood.* FLUX Congress, New York, NY.

Valencia V., Romeo, R., **Leonard, J.A.,** Rowe, M., & Gabrieli, J.D.E. (2019). *Hablamos Ambos (We Speak Both): Relationship between primary language use and lexical diversity in bilingual families.* Society for Research in Cognitive Development, Baltimore, MD.

Romeo, R.R., **Leonard, J.A.,** Segaran, J., Mackey, A.P., Rowe, M.L., Gabrieli, J.D.E. (2019). *Structural and functional neural correlates of language experience in children from diverse socioeconomic backgrounds.* Society for Research in Child Development, Baltimore, MD.

Leonard, J.A., Romeo, R.R., Park, A.T., Takada, M.E., Robinson, S.T., Grotzinger, H., Finn, A.S., Gabrieli, J.D.E., & Mackey, A.P. (2018). *Associations between cortical thickness and reasoning vary by socioeconomic status in early childhood.* Cognitive Neuroscience Society, Boston, MA.

Romeo, R.R., Segaran, J., **Leonard, J.A.**, Robinson, S. T., Mackey, A.P., Yendiki, A., Rowe, M.L., & Gabrieli, J.D.E. (2018). Neural correlates of the "30-million word gap": Children's language exposure is related to white matter structure. *Cognitive Neuroscience Society*, Boston, MA.

Leonard, J.A., Magid, R., Kleiman-Weiner, M., DePascale, M., Tenenbaum, J., & Schulz, L.E. (2017). *Preschoolers rationally deploy effort in social learning and collaborative contexts.* Cognitive Development Society, Portland, OR.

Leonard, J.A., Kleiman-Weiner, M., Lee, Y., Tenenbaum, J., & Schulz, L.E. (2017). *Preschoolers and infants calibrate persistence from adult models.* Cognitive Science Society, London, UK.

Takada, M.E., **Leonard, J.A.**, Romeo, R.R., Robinson, S.T., Mackey, A.P., & Gabrieli, J.D.E. (2017). *Cognitive and neural correlates of mathematical reasoning across math proficiency levels.* Society for Research in Cognitive Development, Austin, TX.

Romeo, R.R., **Leonard, J.A.**, Robinson, S.T., Rowe, M.L., Mackey, A.P., & Gabrieli, J.D.E. (2017). *Language exposure is associated with the cortical thickness of young, low-SES children.* Society for the Neurobiology of Language, Baltimore, MD.

Romeo, R.R., **Leonard, J.A.,** Robinson, S.T., Segaran, J., Rowe, M.L., Mackey, A.P., & Gabrieli, J.D.E. (2016). *Children's language exposure predicts neural activation during language processing.* Society for Neuroscience, San Diego, CA.

Leonard, J.A., Lee, Y., & Schulz, L.E. (2015). *If at first you don't succeed: The role of evidence in preschoolers' and infants' persistence.* Cognitive Development Society, Columbus, OH.

Leonard, J.A., Mackey, A.P., Finn, A.S., & Gabrieli, J.D.E. (2015). *Differential effects of socioeconomic status on declarative and procedural memory.* FLUX congress, Leiden, Netherlands.

Leonard, J.A., Lee, Y., & Schulz, L.E. (2015). *If at first you don't succeed: The role of evidence in preschoolers' and infants' persistence.* Cognitive Science Society, Pasadena, CA.

Mackey, A.P., Finn, A.S., **Leonard, J.A.**, Salvatore, J., Goetz, C.A., & Gabrieli, J.D.E. (2014). *Cortical thickness differences associated with family income in adolescents.* Human Brain Mapping, Hamburg, Germany.

Leonard, J.A., Finn, A.S., Mackey, A.P., Salvatore, J., De los Angeles, C., Goetz, C.A., Gabrieli, J.D.E., & Whitfield-Gabrieli, S. (2014). *Relation of functional connectivity to cognitive abilities in adolescents from socioeconomically diverse backgrounds.* The Cognitive Neuroscience Society, Boston, MA.

Leonard, J.A., Finn, A.S., Mackey, A.P., Salvatore, J., De los Angeles, C., Goetz, C.A., Gabrieli, J.D.E., & Whitfield-Gabrieli, S. (2013). *Resting-state MRI in adolescents: Relation of functional connectivity to cognitive abilities and educational outcomes.* The Society for Neuroscience, San Diego, CA.

Mackey, A.P., Finn, A.S., **Leonard, J.A.,** Salvatore, J., Goetz, C.A., & Gabrieli, J.D.E. (2013). *Cognitive, academic, and brain difference associated with low-income backgrounds in adolescents.* The Society for Neuroscience, San Diego, CA.

Finn, A., Albert, N., **Leonard, J.A.,** & Hudson Kam, C.L. (2013). *Effort in skill learning: More persistent benefits for children.* The Cognitive Neuroscience Society, San Francisco, CA.

Leonard, J.A., Berkowitz, T., & Shusterman, A. (2013). *The effects of touch on compliance in pre-school age children.* The Society for Research in Cognitive Development, Seattle, WA.

Finn, A., Sheridan, M.A., Salvatore, J., **Leonard, J.A.,** & Gabrieli, J.D.E (2012*). Individual differences in adolescents' ability to filter items for working memory predict neural structure and function.* The Society for Neuroscience, Louisiana.

Leonard, J.A., Berkowitz, T., & Shusterman, A. (2011). *The effects of touch on compliance in pre-school age children.* The Cognitive Development Society, Philadelphia, PA.

INVITED TALKS

Cognitive Science Colloquium, Princeton University	2024
Psychology Colloquium, Wesleyan University	2024
Developmental Brown Bag, University of Waterloo	2024
Developmental Colloquium, UMass Amherst	2023
EdukCircle International Convention on Psychology	2023
Developmental Psychology Talk Series, UC San Diego	2023
Social Curiosity Workshop, University of Göttingen & Stanford University	2022
Cognitive Development Center Seminar Series, Central European University	2022
Developmental Brown Bag, Brown University	2022
Developmental Science Program Colloquium, University of Maryland	2022
Developmental Talk Series, University of Toronto	2021
Teachers College Seminar, Columbia University	2021
Developmental Brown Bag, Duke University	2021
Computational Cognitive Development Laboratory, Harvard University	2021
Psychology Developmental Colloquium, Temple University	2020
Department of Psychology Colloquium, University of Chicago	2020
Department of Psychology Colloquium, University of Southern California	2020
iSearch Research Retreat, Max Planck Institute for Human Development	2020
Concepts and Categories Seminar, New York University	2019
Department of Psychology Colloquium, Yale University	2019
Department of Psychology Colloquium, Stanford University	2019
Affective Neuroscience and Development Laboratory, Harvard University	2018
Developmental Group Talk Series, University of Pennsylvania	2017

Developmental Colloquium, Stanford University 2017

TEACHING

Primary Instructor

Translating Developmental Science into Educational Practice, Yale University 2023
Developmental Psychology, Yale University 2021, 2022
Tools for Academic Success and Beyond, Yale University 2022
Science Pedagogy for Elementary School Students, Wesleyan University, Co-instructor 2009-2011

Teaching Assistant

Infant & Childhood Cognition, MIT 2016
Psychological Science, MIT 2016, 2017
Cognitive Processes, MIT 2015
Research Methods in Cognitive Development and Education, Wesleyan 2010

PROFESSIONAL SERVICE TO THE FIELD

Journal Ad-hoc Reviewer

Child Development, Cognition, Cognitive Development, Cognitive Science, Cognitive Psychology, Developmental Cognitive Neuroscience, Developmental Psychology, Developmental Science, Developmental Psychobiology, Human Brain Mapping, Infant and Human Development, Journal of Experimental Psychology: General, Journal of Experimental Child Psychology, Journal of Neuroscience, Nature Communications, Personality and Social Psychology Bulletin, Plos One, Psychological Science, Trends in Cognitive Science

Conference Reviews

Society for Research in Child Development, Cognitive Development Society, Cognitive Science Society (meta-reviewer, 2023)

Grant Reviews

NSF EHR Panel Study Section Member, 2022
NSF EHR ad-hoc reviewer, 2021; 2023
The Leaky Foundation ad-hoc reviewer, 2021

UNIVERSITY AND DEPARTMENTAL SERVICE AT YALE

Quantitative Search Committee, Department of Psychology 2023-2024
The Psychology Department's Committee on Racial Equity and Diversity 2022-2024
The Education Studies Advisory Committee 2022-2024
Chair of Psychology Colloquia 2022-2023
Developmental Search Committee, Department of Psychology 2022-2023
The Graduate Program Advisory Committee 2021-2023
Open Search Committee, Department of Psychology 2021-2022
Fellow, Silliman College 2021-

PROFESSIONAL MEMBERSHIP

American Psychological Association 2017
Cognitive Science Society 2015
FLUX Congress 2015

Cognitive Neuroscience Society	2014
Society for Neuroscience	2013
Cognitive Development Society	2011
Society for Research on Cognitive Development	2011

PUBLIC WRITING AND OUTREACH

Psychology Today: How AI could ruin or revive our culture of learning (2023)
Yale Community Breakfast (2023)
Character Lab Tip of the Week: Step back: Let kids do it themselves (2021)
The Conversation: Babies can learn the value of persistence by watching grownups stick with a challenge (2017)

SELECTED MEDIA COVERAGE

Book: Good, Better, Best: The Rare Phenomenon of Multiple Successful Siblings and What It Shows Us About Parenting, Ambition, and Genetic Inheritance (forthcoming) by NYTimes reporter Susan Dominus
Teachers' Voices (Jacob's BOLD podcast) Season 3 Episode 10. How can schools embrace variability in learning? (2024)
Vox: It's Okay to Suck When You Try Something New (2023)
The Happiness Lab Podcast (Happier Parents, Happier Kids pt. 2; 2022)
Stanford Psychology Podcast: Young Children's Effort Allocation and Persistence in Learning (2022)
New York Times: Want your kid to learn something new? Sign yourself up too (2021)
CNN: Parents: Here's when to shower your child with praise (2021)
Parent.com: Kids persevere more when parents take a step back (2021)
Penn Today: Children persist less when adults take over (2021)
Netflix: Babies (2020)
MIT News: Babies can learn that hard work pays off (2017)
Scientific American: If at first you don't succeed, show your baby again (2017)
The Atlantic: Infants can learn the value of perseverance by watching adults (2017)

MENTORSHIP

Yale Postdoctoral Mentor

Mika Asaba, 2021 – present
NSF Social, Behavioral, and Economic Sciences Postdoctoral Fellowship

Yale Graduate Mentor

Aarthi Popat; Yale Psychology (Developmental) PhD Program (2023 – present)
Elaine Wang; Yale Psychology (Developmental) PhD Program (2023 – present)
Reut Shachnai, Yale Psychology (Developmental) PhD Program (2021 – present)
Brandon Carrillo, Yale Psychology (Developmental) PhD Program (2021 – present)
Flora Zhang, Yale Psychology (Cognitive) PhD Program (2021 – present)

Visiting Graduate Students

Daniil Serko, Max Plank Institute for Human Development, PhD Program (Spring 2022)

Graduate Committees

Dissertation Committees

Mandy McCarthy (Developmental, 2024), Tristan Yates (Cognitive, 2023), Emory Richardson (Developmental, 2023), Zachary Silver (Developmental, 2023), Kate Yang (Developmental, 2022), Megan Collins (Clinical, 2022)

Pre-Dissertation Committees

Jordan Foster (Clinical, 2022, 2023), Lilian Behm (Neuroscience, 2023)

Yale Undergraduate Mentor

Undergraduate Senior Theses

Psychology: Zahra Yarali (Spring 2024), AC Christakis (Fall 2023), Marissa Healy (Spring 2023)
Cognitive Science: Noah Norman (Spring 2023), Emily Li (Spring 2022)

Undergraduate Research Assistants in the Leonard Learning Lab

Bethel Asomaning (2024), Carigan McGuinn (2024), Lizbeth Lozano (2023-2024), Adriana Abad Castro (2023), Justice Brown (2022-2023), AC Christakis (2022-2023), Yagmur Ozturkoglu (2022), Zahra Yarali (2022-2024), Stella Choi (2023), Noah Norman (2022-2023), Lauren Okine (2022 - 2024), Jessie Cheung (2022), Montse Rodriguez (2022), Elaine Cheng (2022), Matthew Elmore Merritt (2021-2022), Suzanna Yang (2021-2022)

Yale Pathways Program: High school research assistants

Ayannah Obas (2023; Started Yale College in 2023)

Non-Yale research assistants

Arielle Belluck (2023-2024; Princeton University Lab Manager)
Jam Stebbins (2024, Temple University undergraduate)
Lingyan Hu (2021-2023; University of Pennsylvania Education PhD)
Allison Eisenberg (2023; Rutgers University undergraduate)

Penn Undergraduate Mentor

Undergraduate Psychology Senior Theses

Skyler Cordrey (Spring 2021), Amanda Nerenberg (Spring 2021), Julia Sandler (Spring 2020), Aidan Rubio (Spring 2020), Lily Stein (Fall 2020), Dominique Martinez (Spring 2019), Samantha Dashineau (Villanova Masters student 2019)

Undergraduate Research Assistants in the Changing Brain Lab

Skyler Cordrey (2019-2021), Amanda Nerenberg (2019-2021), Greer Bizzell-Hatcher (2019-2021), Hunter Liu (2019-2021), Ava Cruz (2018-2019)

MIT Undergraduate Mentor

Undergraduate Research Assistants in the Early Childhood Cognition Lab

Andrea Garcia (2018), Stephanie Flores (2018) Fatima Gunter-Rahman (2017-2018), Yuna Lee (2015-2017), Megumi Takada (2015-2017), Katherine Chew (2017), Yuriko Fukumura (2017), Daniel Mirney (2016), Emily McDermitt (2016), Jakub Kaczmarzyk (2015), Dayna Wilmot (2014-2017)

PROFESSIONAL DEVELOPMENT

National Center for Faculty Development & Diversity Faculty Success Program (2023); Yale Poorvu Pedagogical Partners (2021); Yale Poorvu Center for Teaching and Learning Course (Re)Design (2021)

AWARDS AND FUNDING TO TRAINEES

Yale Education Studies Graduate Research Grant ($5,000): Elaine Wang (Graduate student)	2023
Robert J. Glushko Prize for Distinguished Undergraduate Research in Cognitive Science, Yale University ($500): Noah Norman (CogSci senior thesis)	2023
Yale College Dean's fellowship ($4,500): Lizbeth Lozano (undergraduate RA)	2023
Yale College Dean's fellowship ($4,500): AC Christakis (undergraduate RA)	2023
Richter Summer Fellowship ($1,500): AC Christakis (undergraduate RA)	2023
Mellon Undergraduate Research Grant ($500): Noah Norman (CogSci senior thesis)	2022
Yale Education Studies Graduate Research Grant ($5,000): Reut Shachnai (Graduate student)	2022
NSF SBE Postdoctoral Fellowship ($138,000): Mika Asaba (Postdoctoral fellow)	2022-2024
Yale College Dean's fellowship ($4,500): Lauren Okine (undergraduate RA)	2022
Richter Summer Fellowship ($1,500): Lauren Okine (undergraduate RA)	2022
Yale College Dean's fellowship ($5,500): Jessie Cheung (undergraduate RA)	2022
Richter Summer Fellowship ($1,500): Jessie Cheung (undergraduate RA)	2022