

Sammy F. Ahmed | Curriculum Vitae

ahmeds31@msu.edu

Education & Training

Doctor of Philosophy in Psychology University of Michigan	2019
Graduate Degree Certificate in Data Science University of Michigan	2017
Master of Science in Psychology University of Michigan	2016
Bachelor of Science (<i>Summa Cum Laude</i>) Honors in Applied Psychology New York University	2012

Academic Appointments

Institute for Education Sciences Postdoctoral Fellow Michigan State University	2020 - Present
SRC Research Fellow Institute for Social Research, University of Michigan	2019 - 2020

Extramural Funding

National Academy of Education/Spencer Foundation Postdoctoral Fellowship \$70,000	Submitted
Title: Evaluating the Impact of HighScope's Curriculum Enhancements: A Follow-Up to a Randomized Preschool Self-Regulation Intervention Role: Principal Investigator	
Society for Research in Child Development (SRCD) Early Career Scholars Grant \$7,500	Submitted
Title: Using Publicly-Available Administrative Records to Evaluate a Randomized Preschool Self-Regulation Intervention Role: Principal Investigator	
National Institutes of Health National Research Service Award T32 HD007109-36 \$88,000	2016-2018
Title: The Effects of Schooling on Children's Cognitive Development Role: Principal Investigator	

Peer Reviewed Journal Articles

- 12] Ahmed, S. F., Kuhfeld, M., Watts, T., Davis-Kean, P., & Vandell, D. L. (2021). Preschool executive function and adult outcomes: A developmental cascade model. Manuscript in-press at *Developmental Psychology*
- 11] Kim., M, Boussetot, T., & Ahmed, S. F. (2021). Executive functions and science achievement during the five-to-seven-year shift. Manuscript in-press at *Developmental Psychology*
- 10] Ellis, A., Ahmed, S. F., Zeytinoglu, S., Isbell, A., Calkins S. D., Leerkes E. M, Grammer, J. K., Gehring, W., Morrison, F. J. & Davis-Kean, P. (2021). Reciprocal associations between executive function and math achievement: A conceptual replication of Schmitt et al., 2017. Manuscript in-press at *Journal of Numerical Cognition*
- 9] Ahmed, S. F., Grammer, J. K., & Morrison, F. J. (2021). Cognition in context: Validating group-based executive function assessments in young children. *Journal of Experimental Child Psychology*, 208:105131, doi: <https://doi.org/10.1016/j.jecp.2021.105131>

- 8] Kim, M., **Ahmed, S. F.**, & Morrison, F. J. (2021). Kindergarten and first grade schooling effects on executive function and academic skill development: Evidence from a school cutoff design. *Frontiers in Psychology*, 11:607973. doi: 10.3389/fpsyg.2020.607973
- 7] Waters*, N. E., **Ahmed, S. F.**, Tang, S., Morrison, F. J., & Davis-Kean, P. (2021). Pathways from socioeconomic status to early academic achievement: The role of specific executive functions. *Early Childhood Research Quarterly* 54(1), 321-331. doi: org/10.1016/j.ecresq.2020.09.008
- 6] Woods, A., **Ahmed*, S. F.**, Katz, B., & Morrison, F. J. (2020). How stable is early academic performance? Using cluster analysis to classify low achievement and EF. *Journal of Learning Disabilities*. 52(7),doi: 10.1177/0022219419881632
- 5] **Ahmed*, S. F.**, Tang, S., Waters*, N. E., & Davis-Kean, P. (2019). Executive function and academic achievement: Longitudinal relations from early childhood to adolescence. *Journal of Educational Psychology*. 111(3), 446-458 doi: 10.1037/edu0000296
- 4] Sirin, S. R., Rogers-Sirin, L., Cressen, J., Gupta, T., **Ahmed**, S. F.**, & Novoa, A. D. (2015). Discrimination-related stress effects on the development of internalizing symptoms among Latino adolescents, *Child Development*. 86(3), 709-725. doi: 10.1111/cdev.12343

Preprints & Manuscripts Under Review

- 3] **Ahmed, S. F.**, Ellis, A., Ward*, K., Chaku, N., & Davis-Kean, P. (2021). Charting the functional form of working memory in two nationally-representative samples. Under review at *Child Dev.* [[preprint](#)]
- 2] **Ahmed, S. F.**, Montroy, J. J., Skibbe, L. E., Bowles, R., & Morrison, F. J. (2021). Does the timing of self-regulation development matter for children's math growth? Under review at the *Journal of Educational Psychology*
- 1] **Ahmed, S. F.**, Skibbe, L. E., McRoy*, K., Ozkum*, B., & Scharphorn, L. (2021). Strategies, recommendations, and validation of virtual executive function tasks for use with young children. Under review at *Early Childhood Research Quarterly*

*Graduate Student at time of Submission, **Undergraduate Student at time of Submission

University Teaching

Structural Equation Modeling | Michigan State University - Fall, 2020 [[syllabus](#)]

Instructor of record of an advanced graduate course in applied structural equation modeling

Methods Lab in Developmental Psychology | Spring, 2016 - University of Michigan, Ann Arbor [[syllabus](#)]

Graduate Student Instructor of three discussion sections for an upper-level undergraduate lab seminar

Introduction to Psychology as a Natural Science | Fall, 2015 - University of Michigan, Ann Arbor [[syllabus](#)]

Graduate Student Instructor of three discussion sections for undergraduate introductory psychology

Advanced Research Methods in Psychology | Spring, 2015 - University of Michigan, Ann Arbor [[syllabus](#)]

Graduate Student Instructor of three discussion sections for undergraduate advanced research methods

Research Methods in Psychology | Fall, 2014 - University of Michigan, Ann Arbor [[syllabus](#)]

Graduate Student Instructor of three discussion sections for undergraduate introductory research methods

Graduate Teaching Certificate | Center for Teaching and Learning - University of Michigan, Ann Arbor

Certified to teach college-level courses through evaluated lectures, and supervised teaching mentorship

Mentorship

University Undergraduate Research and Arts Forum | Michigan State University

Toriana Day & Laura Scarcelli | Remote strategies for assessing preschoolers' self-regulation skills.

Pathways to Literacy Lab | University of Michigan

Stuart Hanna | Classroom peer effects on executive function development.

Barbara Dennis | Working memory mediates the relation between SES and academic achievement.

Nicholas E. Waters | Early parenting predicts children's self-regulation: Evidence from audio recordings.

Aneesha Arora | Exploring a new scale for cognitive dissonance in a nationally representative sample.

Undergraduate Research Opportunity Program Mentor | University of Michigan

Abigail Richburg* | Executive function and aggression during adolescence: A meta-analysis.

Julia Barron* | Links between children's self-regulation and achievement: Does context matter?

Morgan E. Johnson* | The relation between attention control and academic achievement.

Julia Barron* | Do experimental assessments of children's executive function predict classroom behavior?

Honors Program Graduate Mentor | University of Michigan

Jared Goldberg | Teacher ratings of self-regulation and children's executive function and achievement.

Donovan Gappy | The utility of coding child behavior in EEG studies.

Manna Shintani | Executive function and academic achievement: Relations across socioeconomic status.

Ariella K. Kupetz | Environmental toxicants and cognitive development: A review of the literature.

Graduate Mentor & Steering Committee Chair | Michigan Association of Psychology Scholars [MAPS]

Chair and Mentor of a program designed to place undergraduate students in psychology research labs.

*Recipient of Blue-Ribbon Award for Best Undergraduate Presentation

Fellowships, Awards, & Honors

Outstanding Graduate Student Instructor Award Rackham Graduate School - Finalist	2018
Cognitive Development Society Conference Award National Science Foundation	2017
Clyde H. Coombs Award in Mathematical Psychology University of Michigan	2017
Elizabeth Munsterberg Koppitz Child Psychology Fellowship Institutional Nominee	2017
Ruth L. Kirschstein NRSA Predoctoral Fellowship National Institutes of Health	2016
Institute for Social Science Genomics Fellowship Russell Sage Foundation	2016
Rackham Graduate Student Research Grant University of Michigan	2016
Rackham International Research Award University of Michigan	2015
Rackham Merit Fellowship University of Michigan	2014
Outstanding Research Contribution New York University	2012
Founder's Day Award New York University	2012
Dean's Grant for Student Research New York University	2012
David & Clara Rothman Fellowship New York University	2012
Steinhardt Fellowship New York University	2010

Invited Talks

- Ahmed, S. F.** (2021, April). *Schooling and Child Development*. Presented at the department of Human Development and Family Sciences, Syracuse University
- Ahmed, S. F.** (2020, November). *Missing data analysis for developmental scientists: Modern techniques and best practices*. Presented at the HDFS Quantitative Methods Group, Michigan State University
- Ahmed, S. F.** (2020, September). *Introduction to secondary data analysis of archived data*. Presented at the HDFS Quantitative Methods Group, Michigan State University
- Ahmed*, S. F.,** Kelly, D. (2019, February). *Meta-Analyses in the replication crisis era: Steps, challenges and best practices*. Presented at the Department of Psychology Methods Hour, University of Michigan
- Ahmed, S. F.** (2018, November). *Cognitive development in the school context*. Presented at the Developmental Psychology Area Brown Bag, University of Michigan
- Ahmed, S. F.,** (2018, October). *Executive function during early childhood: Measurement, design and research methods*. Guest lecture at an undergraduate seminar in Social Development. Department of Psychology - University of Michigan
- Ahmed, S. F.** (2018, May). *Preschool executive function skills predict high school GPA and college enrollment*. Presented at the Interdisciplinary Collaborative on Development and Context (ICDC), University of Texas at Austin
- Ahmed*, S. F.,** & Davis-Kean, P. (2018, March). *Pre-Registering non-experimental research designs: Steps and challenges*. Presented at the department of psychology Methods Hour, University of Michigan
- Ahmed*, S. F.,** & Tighe, L. A. (2017, April). *Alternatives to Regression Discontinuity in national, longitudinal data sets*. Presented at the department of psychology Methods Hour, University of Michigan
- Ahmed, S. F.** (2017, January). *Using Regression Discontinuity in education and developmental research*. Guest lecture at a graduate training seminar for developmental science, University of Michigan
- Ahmed, S. F.** (2015, November). *Genetic susceptibility to household income: Differential effects on executive function and academic achievement*. Presented at the Developmental Psychology Area Brown Bag, University of Michigan
- Ahmed, S. F.** (2014, November). *Experimental methodology in developmental science. Guest lecture at an undergraduate seminar in research methods*. Department of Psychology - University of Michigan
- Ahmed, S. F.** (2014, May). *The relevance of population neuroscience for understanding human development*. Discussant at the Society for Research on Child Development (SRCD) Special Topic Meeting on Population Neuroscience, Ann Arbor, MI

*Co-presentations

Conference Presentations

- Ahmed, S. F.,** Grammer, J. K., & Morrison, F. J. (2021). *Cognition in context: Validating group-based executive function assessments in young children*. In I. Korocu (Chair). The influence of peers on children cognitive and academic development. Paper presented at the biennial meeting of the Society for Research in Child Development (SRCD), Twin Cities, MN

- Ahmed, S. F.**, Skibbe, L. E., McRoy, K., Ozkum, B., & Scharphorn, L. (2021). Strategies, recommendations, and validation of virtual executive function tasks for use with young children. Poster presented at the biennial meeting of the Society for Research in Child Development (SRCD), Twin Cities, MN (Remote)
- Ellis, A., **Ahmed, S. F.**, Zeytinoglu, S., Isbell, A., Calkins S. D., Leerkes E. M., Grammer, J. K., Gehring, W., Morrison, F. J. & Davis-Kean, P. (2021). *Reciprocal associations between executive function and math achievement: A conceptual replication of Schmitt et al. (2017)*. In J. Finch (Chair). The role of executive functions in supporting math achievement across early development. Paper presented at the biennial meeting of the Society for Research in Child Development (SRCD), Twin Cities, MN
- Waters, N. E., **Ahmed, S. F.**, Tang, S., Morrison, F. J., & Davis-Kean, P. (2020, May). *Pathways from socioeconomic status to early academic achievement: The role of preschool executive functions*. Poster accepted at the 32th Annual Convention of the Association for Psychological Science (APS), Chicago, Illinois
- Ahmed, S. F.**, Wang, Y., Kelly, D., & Morrison, F. J. (2019, June). *Sex and socioeconomic differences in early executive function components vary by measurement type*. Paper presented at the 2nd Mathematical Cognition and Learning Society Conference (MCLS), Ottawa, CA
- Ahmed, S. F.**, & Morrison, F. J. (2019, March). *Understanding executive function during early childhood: The utility of direct assessments, group-based tasks, and teacher reports*. In F.J. Morrison (Chair). An integrative approach to understanding executive function development in young children. Paper presented at the biennial meeting of the Society for Research in Child Development (SRCD), Baltimore, MD
- Ahmed, S. F.**, Tang, S., Waters, N. E., & Davis-Kean, P. (2018, October). *Executive function and academic achievement: Longitudinal relations from early childhood to adolescence*. Paper presented at the SRCD Conference on the Use of Secondary and Open Source Data in Developmental Science, Phoenix, AZ
- Ahmed, S. F.** Grammer, J. K., & Morrison, F. J. (2018, September). *The development and validation of group-based executive function assessments in school-aged children*. In F.J. Morrison (Chair). Executive function development: Bridging psychological, neurological, and educational perspectives. Paper presented at the International Mind, Brain and Education Society (IMBES), Los Angeles, California
- Ellis, A., **Ahmed, S. F.**, Davis-Kean, P. & Morrison, F. J. (2018, September) *Which comes first? Examining causal relations between early executive function skills and math achievement*. Poster presented at the International Mind, Brain and Education Society (IMBES), Los Angeles, California
- Waters, N. E., **Ahmed, S. F.**, Davis-Kean, P. & Morrison, F. J. (2018, September) *Socioeconomic differences in children's performance monitoring: An ERP investigation*. Poster presented at the International Mind, Brain and Education Society (IMBES), Los Angeles, California
- Ahmed, S. F.**, & Morrison, F. J. (2018, April). *Classroom-based executive function assessments predict kindergarten children's' math achievement*. Poster presented at the 1st Mathematical Cognition and Learning Society Conference (MCLS), Oxford, UK
- Ahmed, S. F.**, Ellis, A. G., Waters, N. E., Wang, Y., & Morrison, F. J. (2017, October). *Understanding the structure of executive function in young children using lab, classroom-based and electrophysiological assessments*. Poster presented at the Cognitive Development Society (CDS), Portland, OR
- Ahmed, S. F.**, Remer, S., Sheppard, N., & Morrison, F. J. (2017, October). *The development and validation of classroom-based executive function assessments in school-aged children*. Poster presented at the biennial meeting of the Cognitive Development Society (CDS), Portland, OR

- Shintani*, M., **Ahmed, S. F.**, & Morrison, F. J., (2017, October). *Executive function and academic achievement: Differential relations across socioeconomic status*. Poster presented at the biennial meeting of the Cognitive Development Society (CDS), Portland, OR
- Goldberg*, J., Waters, N. E., **Ahmed, S. F.**, & Morrison, F. J. (2017, October). *Do teacher's ratings of self-regulation predict children's executive function and academic achievement?* Poster presented at the biennial meeting of the Cognitive Development Society (CDS), Portland, OR
- Gappy*, D., Dennis, B. S., Waters, N. E., **Ahmed, S. F.**, Grammer, J. K., & Morrison, F. J., (2017, April). *The utility of coding child behavior in EEG studies*. Poster presented at the University of Michigan annual UROP conference, Ann Arbor, MI
- Barron*, J., **Ahmed, S. F.**, & Morrison, F. J., (2017, April). *Examining links between children's self-regulation and academic achievement: Does context matter?* Poster presented at the University of Michigan annual UROP conference, Ann Arbor, MI - Blue Ribbon Award for Best Undergraduate Presentation
- Shintani*, M., **Ahmed, S. F.**, & Morrison, F. J., (2017, April). *Executive function and academic achievement: Differential relations across socioeconomic status*. Poster presented at the University of Michigan annual UROP conference, Ann Arbor, MI
- Wang, Y., **Ahmed, S. F.**, & Morrison, F. J. (2017, April) *The development of executive function and relations to emergent academic skills: Exploring early sex differences*. In H. Konishi (Chair). *Self-regulation in early childhood and relations to emergent academic skills*. Paper presented at the biennial meeting of the Society for Research in Child Development (SRCD), Austin, TX
- Ahmed, S. F.**, Salander, Z., Waters, N. E., Grammer, J. K., Gehring, W., & Morrison, F. J. (2017, April). *Self-regulation during the early school transition: An ERP exploration*. Poster presented at the biennial meeting of the Society for Research in Child Development, (SRCD) Austin, TX
- Dennis, B. S., **Ahmed, S. F.**, & Morrison, F. J. (2017, April). *Working memory mediates the relation between SES and academic achievement*. Poster presented at the biennial meeting of the Society for Research in Child Development (SRCD), Austin, TX
- Woods, A., **Ahmed, S. F.**, Katz, B., Waters, N. E., & Morrison, F. J. (2017, April). *Utilizing ERP and behavioral data to identify persistent low academic performance across the K-1 transition*. Paper presented at the American Educational Research Association (AERA), San Antonio, TX
- Ahmed, S. F.**, Wang, Y. & Morrison, F. J. (2016, September) *Gender and SES differences in subcomponents of executive function in kindergarten and first grade*. Poster presented at the International Mind, Brain and Education Society (IMBES), Toronto, Ontario, Canada
- Ahmed, S. F.**, Wang, Y. & Morrison, F. J. (2016, September) *The relative importance of executive function components for young children's academic achievement*. Poster presented at the International Mind, Brain and Education Society (IMBES), Toronto, Ontario, Canada
- Barron*, J., Dennis, B., Waters, N. E., **Ahmed, S. F.**, & Morrison, F. J., (2016, June). *Do experimental assessments of children's executive function predict classroom-based behavior*. Poster presented at the University of Michigan annual SROP conference - Blue Ribbon Award for Best Undergraduate Presentation
- Waters, N. E., **Ahmed, S. F.**, & Davis-Kean, P. (2016, May). *Early parental dialogue predicts children's self-regulation: Evidence from digital audio recordings*. Poster presented at the 28th Annual Convention of the Association for Psychological Science (APS), Chicago, Illinois

- Ahmed, S. F.**, & Mitchell, C. (2016, May). *Genetic susceptibility to household income: Differential effects on executive function and math achievement*. Poster presented at the 28th Annual Convention of the Association for Psychological Science (APS), Chicago, Illinois
- Ahmed, S. F.**, Katz, B., Waters, N. E., Stilwell, S. M., Grammer, J. K., & Morrison, F. J. (2015, October) *Classroom-based measures of executive function in young children: Evidence for a new ecologically valid measure of executive function*. Poster presented at the 9th biennial meeting of the Cognitive Development Society (CDS), Columbus, OH
- Ahmed, S. F.**, Waters, N. E., Stilwell, S. M., Salander, Z. B., Kats, B., Grammer, J. K., & Morrison, F. J. (2015, October). *The relation between lab-based and classroom-based measures of executive function in kindergarten students*. Poster presented at the 9th biennial meeting of the Cognitive Development Society (CDS), Columbus, OH
- Woods, A., **Ahmed, S. F.**, & Morrison, F. J. (2015, October). *The Impact of chronic poverty on academic achievement and special education placement*. In A. Sullivan (Chair). *Educational Inequality*. Paper presented at the Society for Longitudinal and Life Course Studies (SLLS), Dublin, Ireland
- Ahmed, S. F.** (2015, October). *The interactive effect of dopaminergic polymorphisms and home environment in predicting academic achievement*. In A. Woods (Chair). Longitudinal interactions between psychopathological precursors and contextual factors on education outcomes for at risk children. Paper presented at the Society for the Study of Human Development's scientific meeting (SSHJ), Austin, TX
- Ahmed, S. F.**, Waters, N., Mitchell, C. (2015, May). *Dopaminergic polymorphisms moderate the relation between home environment and attention regulation*. Poster presented at the 27th Annual Convention of the Association for Psychological Science (APS), New York, NY
- Johnson*, M. E., Stilwell, S. M., **Ahmed, S. F.**, & Morrison, F. J., (2015, April). *The relation between attention control and academic achievement*. Poster presented at the University of Michigan annual UROP conference, Ann Arbor, MI
- Woods, A., & **Ahmed, S. F.** (2015, March) *The risk factors of special education placement among fragile families*. Poster presented at the biennial meeting of the Society for Research in Child Development (SRCD), Philadelphia, PA
- Ahmed***, S. F., Sirin, S. R., & Gupta, T., & Novoa, A. D. (2013, April). *Urban adolescents' school engagement: Exploring the immigrant paradox and the protective influence of community connection*. Poster presented at the Society for Research in Child Development (SRCD), Seattle, WA
- Gupta, T. Sirin, S. R., Rogers-Sirin, L., **Ahmed***, S. F., Palmeri, J. M., & Duca, K. (2013, April). *Gender and Generation status variations in the role of bicultural identification on cognitive engagement*. Paper presented at the biennial meeting of the Society for Research in Child Development (SRCD), Seattle, WA
- Ahmed***, S. F., Gupta, T., Palmeri, J. M., & Rogers-Sirin, L. (2012, August). *The role of community connection for immigrant youth's school engagement*. Poster presented at the 120th Annual Convention of the American Psychological Association (APA), Orlando, FL
- Ahmed***, S. F. (2012, May). *The role of community connection for immigrant youth's school engagement*. Poster presented at the Annual New York University Undergraduate Research Conference, NY

*Denotes undergraduate student at time of submission

Service

Ad Hoc Journal Reviewer

Child Development, Journal of Educational Psychology, Developmental Psychology, Cognitive Development, Intelligence, Learning and Instruction, Infant and Child Development, Journal of Early Adolescence, Journal of Experimental Child Psychology, Frontiers in Psychology, Early Childhood Research Quarterly, Mind, Brain, and Education

Conference Reviewer

Society for Research in Child Development (General and Methodology Sections), Association for Psychological Science, American Educational Research Association, Cognitive Development Society

Academic Service

University Undergraduate Research and Arts Forum (UURAF) Judge Michigan State University	2020
Postdoctoral and Tenure-Track Faculty Search Committee Member University of Michigan	2016
Diversity Weekend Recruitment Representative University of Michigan	2015
Michigan Association of Psychological Scholars (MAPS) Steering Committee Chair	2014
Curriculum Committee Member, Department of Psychology University of Michigan	2014
Staff Writer, Online Publication of Undergraduate Studies New York University	2012

Community Service

Belleville Tech Science and Biology Representative; Belleville High School, MI	2017
Math and Science Fair Representative; Romulus Elementary School, MI	2016
Athletic Learning Services Mentor - University of Michigan Athletic Department	2014
Coordinator of Community Health Research, Academy of Medical & Public Health Services, NY	2011

References

Professor Frederick J. Morrison, Department of Psychology | University of Michigan [fjmorris@umich.edu]
Professor Pamela Davis-Kean, Institute for Social Research | University of Michigan [pdakean@umich.edu]
Professor Lori Skibbe, HDFS | Michigan State University [skibbelo@hdfs.msu.edu]