VITAE

ZACHARY S. GOLD, Ph.D.

SUNY Oswego, Department of Human Development
413 Mahar, 7060 State Route 104, Oswego, NY 13126
(315) 312-3292 | zachary.gold@oswego.edu

EMPLOYMENT

Assistant Professor, State University of New York at Oswego, Oswego, NY — 2020 – present
Department: Human Development

Postdoctoral Fellow, Concordia University, Montreal, QC — 2017 – 2020
Departments: Education and Psychology
Mentor: Nina Howe

EDUCATION

Doctor of Philosophy, Purdue University, West Lafayette, IN — 2017
Major: Human Development and Family Studies
Mentor: James Elicker

Master of Science, Purdue University, West Lafayette, IN — 2014
Major: Human Development and Family Studies
Mentor: James Elicker

Bachelor of Arts, State University of New York at Geneseo, Geneseo, NY — 2012
Major: Psychology
Minor: Philosophy
Mentor: Ganie B. DeHart

THESES

Dissertation: https://docs.lib.purdue.edu/dissertations/AAI10682945/
Engineering play: Exploring associations with executive function, mathematical ability, and spatial ability in preschool.

Master's Thesis: http://docs.lib.purdue.edu/open_access_theses/428/
Preschoolers' physical, social, and engineering play behaviors: Differences in gender and play environment.

EXPERT PANELS & CONSULTANCIES

Member, Board of Directors — 2021 – present
Children's Museum of Oswego, Oswego, NY

FELLOWSHIPS, AWARDS, & HONORS

2021	*Editor's Choice Paper: Journal of Engineering Education, Vol. 110, Issue 4* American Society for Engineering Education
2019	*Poster Award: Guided Playful Learning Workshop* Cognitive Science Society
2017-2019	*Horizon Postdoctoral Fellowship* Departments of Education and Psychology, Concordia University, $95,000 CAD.
2017	*Center for Families Research Award* Virginia Gould Butterfield Endowment, Center for Families, Purdue University, $1,000.
2016	*General Research Award* Purdue Graduate Student Government, $350.
2015	*Travel Award* Society for Research in Child Development, $300.
2014	*Travis Dorsch and Breanna Studenka Interdisciplinary Research Award* Center for Families, Purdue University, $500.
2012-2013	*Ross Fellowship* Department of Human Development and Family Studies, Purdue University, $18,000.
2012	*Phi Beta Kappa Society, Alpha Delta Chapter of New York* State University of New York at Geneseo
2011	*Undergraduate Summer Research Fellowship* Geneseo Foundation, State University of New York at Geneseo, $3,000.
2010	*Psi Chi International Honor Society in Psychology* State University of New York at Geneseo
2007-2011	*William J. Edgar Fellow* College Honors Program Scholarship, State University of New York at Geneseo, $8,000.

COURSES TAUGHT

HDV	343	Early Childhood Play Behavior	SUNY Oswego	2021-
HDV	490	Practicum in Research		2021-
HDV	302	Research Methods in Human Development II	-	2020-
HDV	301	Research Methods in Human Development I		2022-
HDV	322	Child Development	-	2020-
PSYC	485	Specialization Project	Concordia University	2018-2019
EDUC	311	Child Development II: Ecology of the Family	-	2018
PSYC	215	Child Development (Online)	SUNY Geneseo	2016
HDFS	212	Child Observation Practicum	Purdue University	2015
HDFS	491	Mentored Research in Human Development	-	2015-2017

GUEST LECTURES

CHST	622	The Family	Concordia University	2019
CHST	620	Play: From Theory to Practice	-	2018
HDFS	409	Science in Preschool and Primary Grades	Purdue University	
HDFS	311	Child Development	-	2015
HDFS	341	Working with Parents	-	2014
HDFS	420	Foundations of Infant/Toddler Curriculum	-	2014
HDFS	331	Helping Skills in Individual and Family Settings	-	2014-2015
HDFS	343	Assessment and Case Management	-	2013-2014
PSYC	390	Gender and Development of Aggression	SUNY Geneseo	2016

GRANTS Total Funds = $119,128 ($14,290 at SUNY Oswego)

University-Community Partnership for Inclusive STEM Learning for Children with Disabilities. Richard S. Shineman Foundation Endowed Fund. December 31, 2021 – December 31, 2022. (Principal Investigator) with Dr. Hoda Ehsan, The Hill School – Pennsylvania, Dr. Carol Willard, State University of New York at Oswego, Dr. Chenyi Zhang, Georgia State University, Dr. Nina Howe, Concordia University, & Kathryn Watson, Children's Museum of Oswego, $5,690.

Early Start Program. Accessible STEM Play Environments for Children with Developmental Disabilities. Office of Research and Sponsored Programs (ORSP). June 28, 2021 – September 3, 2021. (Principal Investigator), State University of New York at Oswego, $5,000.

Curriculum Innovation Grant. Development of HDV 343: Early Childhood Play Behavior. Committee on Learning and Teaching (COLT). May 15, 2021 – December 10, 2021. (Principal Investigator) with Dr. Rebecca Burch, State University of New York at Oswego, $3,600.

The Effects of Rigamajig® Play Materials on Elementary Children's Early Development, Learning, and Interest in STEM. KABOOM! National Non-Profit in partnership with The CarMax Foundation. February 25, 2019 – December 31, 2019. (Principal Investigator) with Dr. James Elicker, Purdue University, & Dr. Nina Howe, Concordia University, $75,000.

Development of Project-Based Lesson Plans for K-5 Educators with Rigamajig® Play Materials. KABOOM! National Non-Profit in partnership with The CarMax Foundation. January 15, 2019 – June 30, 2019. (Principal Investigator) with Dr. James Elicker, Purdue University, $10,500.

Investigation-Based Teaching Practices to Foster Engineering Play Behaviors in Young Children. Kodo Kids™ Educational Company, LLC. May 15, 2016 – August 31, 2017. (Principal Investigator) with Dr. James Elicker, Purdue University, $12,438.

Evaluating the "Enhanced Block Party" Training Program: Promoting Preschoolers' School Readiness. Purdue Extension: College of Health and Human Sciences. Grant No. RFP-FY-2017. Purdue University Cooperative Extension Service. April 1, 2016 – August 31, 2017 (Principal Investigator) with Dr. James Elicker, Purdue University, $6,890.

PEER REVIEWED JOURNAL ARTICLES * denotes student mentee

1. **Gold, Z. S.,** Perlman, J., Howe, N., Mishra, A. A., DeHart, G. B., Hertik, H.*, & Buckley, J.* (2022). An observational study of children's problem solving during play with friends. *Journal of Cognition and Development.*

2. Elicker, J., **Gold, Z. S.,** Mishra, A. A., & Lane, S. F. (2021). Toddlers' developmental trajectories as a function of QRIS rated child care quality. *Child & Youth Care Forum.* Advance Online Publication. doi:10.1007/s10566-021-09643-z

3. **Gold, Z. S.,** Elicker, J., Evich, C. D., Mishra, A. A., Howe, N., & Weil, A. E.* (2021). Engineering play with blocks as an informal learning context for executive function and planning. *Journal of Engineering Education, 110*(4), 803-818. doi:10.1002/jee.20421

4. **Gold, Z. S.,** Elicker, J., Kellerman, A. M., Christ, S. L., Mishra, A. A., & Howe, N. (2021). Engineering play, mathematics, and spatial skills in children with and without disabilities [Special Issue]. *Early Education and Development, 32*(1), 49-65. doi:10.1080/10409289.2019.1709382

5. **Gold. Z. S.,** Elicker, J., & Beaulieu, B. A. (2020). Learning engineering through block play: STEM in preschool. *Young Children, 75*(2), 24-29. Retrieved from NAEYC

6. Gregori, E. V., Wendt, O., Gerow, S., Peltier, C., Genc-Tesun, D., Lory, C., & **Gold, Z. S.** (2020). Functional communication training for adults with autism spectrum disorder: A systematic review and quality appraisal. *Journal of Behavioral Education, 29*(1), 42-63. doi:10.1007/s10864-019-09339-4

7. Purpura, D. J., Napoli, A. R., Wehrspann, E. A., & **Gold, Z. S.** (2017). Causal connections between mathematical language and mathematical knowledge: A dialogic reading intervention. *Journal of Research on Educational Effectiveness, 10*(1), 116-137. doi:10.1080/19345747.2016.1204639

8. **Gold, Z. S.,** Elicker, J., Choi, J. Y., Anderson, T., & Brophy, S. P. (2015). Preschoolers' engineering play behaviors: Differences in gender and play context. *Children, Youth and Environments, 25(*3), 1-21. doi:10.7721/chilyoutenvi.25.3.0001

EDITED CHAPTERS & VOLUMES

9. **Gold, Z. S.,** Elicker, J., Evich, C. D., Mishra, A. A., Howe, N., & Weil, A. E.* (2021, November). Engineering is child's play: Preschool children can build more than just structures with blocks. [JEE Selects Column] In E. Miller (Ed.), *Prism Magazine.* Washington, DC: American Society for Engineering Education. Retrieved from http://www.asee-prism.org/jee-selects-nov-dec/

10. **Gold, Z. S.,** & Elicker, J. (2020). Engineering peer play: A new perspective on science, technology, engineering, and mathematics (STEM) early childhood education. In A. Ridgway, G. Quiñones, & L. Li (Eds.), *Peer Play and Relationships in Early Childhood: International Perspectives on Early Childhood Education and Development, Vol. 30* (pp. 61-75). Switzerland: Springer Nature. doi:10.1007/978-3-030-42331-5_5

11. Whiteman, S. D., Senguttuvan, U., & **Gold, Z. S.** (2015). Siblings. In H. S. Friedman. (Ed.), *Encyclopedia of Mental Health, 2nd Edition, Vol. 4* (pp. 152-157). Waltham, MA: Academic Press. doi:10.1016/B978-0-12-397045-9.00114-2

PUBLICATIONS IN REVIEW

1. Saxena, M., Shedlock, D. J., & **Gold, Z. S.** (2022). Gender and disruptions in family routines and stress amid COVID-19.

2. **Gold, Z. S.,** Bayoun, Y., Howe, N., & Dunfield, K. A. (2022). Executive function and spatial patterns in Canadian and Mexican preschool children's block play.

PUBLICATIONS IN PREPARATION

3. **Gold, Z. S.,** Perlman, J., & Howe, N. (2022). Spatial complexity in children's block building mediates the relationship between spatial performance and engineering thinking.

MEAUREMENT DEVELOPMENT

Gold, Z. S., & Elicker, J. (2020). *Physical and Motor Skills Development in Constructive Play Contexts.* Copyright © 2019 Zachary S. Gold, Ph.D., Montreal, QC: Concordia University.

Gold, Z. S., Howe, N., & Dunfield, K. A. (2019). *Observed Executive Functioning in Block Play.* Copyright © 2019 Zachary S. Gold, Ph.D., Montreal, QC: Concordia University.

Gold, Z. S., Howe, N., & Perlman, J. (2019). *Spatial Processes and Complexity in Block Building Configurations.* Copyright © 2019 Zachary S. Gold, Ph.D., Montreal, QC: Concordia University.

Gold, Z. S., Howe, N., & Perlman, J. (2018). *Problem Solving Observation Scheme (PSOS).* Copyright © 2018 Zachary S. Gold, Ph.D., Montreal, QC: Concordia University.

Gold, Z. S., Elicker, J., Bairaktarova, D., & Evangelou, D. (2017). *Engineering Play Behaviors (EPB).* Copyright © 2018 Zachary S. Gold, Ph.D., West Lafayette, IN: Purdue University.

TRANSLATIONAL PUBLICATIONS & CONTRIBUTIONS

1. **Gold, Z. S.** (2021). *Engineering Play Pedagogy*. Materials included in H. Bridle (Associate Professor), Let's Do Engineering: Early Years Engineering. School of Engineering and Physical Sciences, Heriot-Watt University, UK.

2. **Gold, Z. S.,** & Watson, K. (2020). *Family Play Plan Series: Home-Based Lesson Plans for Children and their Caregivers during the COVID-19 Pandemic*. Produced and disseminated in partnership betwthe Children's Museum of Oswego (CMOO). https://cmoo.org/uncategorized/play-plan-series/

3. **Gold, Z. S.** (2020). *Engineering Play Pedagogy*. Materials included in P. Donaldson (Primary Curriculum Lead), Exploring Play-Based Pedagogy for Nursery and Primary Technologies in the Scottish Curriculum for Excellence. Master of Education Program, University of Glasgow, UK.

4. **Gold, Z. S.,** & Elicker, J. (2019). *Project-Based Lesson Plans for K-5 Educators with Rigamajig® Play Materials.* Produced and disseminated by the KABOOM! National Non-Profit in partnership with The CarMax Foundation and Professor Cas Holman, Rhode Island School of Design. https://www.rigamajig.com/project-plans/

5. **Gold, Z. S.,** Elicker, J., & Beaulieu, B. A. (2017). *The Enhanced Block Party: Fostering Engineering Play Behaviors in Young Children* [Professional Development Film]. Produced and disseminated by Purdue University Extension. Peer reviewed by Dr. Aikaterini Bagiati, Massachusetts Institute of Technology, & Dr. Treshawn Anderson, Frank Porter Graham Child Development Institute. edustore.purdue.edu/item.asp?Item_Number=HHS-834-WV

6. **Gold, Z. S.,** & Elicker, J. (2017). *Demystifying Engineering in Early Childhood* [Professional Product Consultant]. Kodo Kids™ Educational Company. https://kodo.learnupon.com/store/486253-demystifying-engineering-in-early-childhood

7. **Gold, Z. S.,** Beaulieu, B. A., & Elicker, J. (2017). Creating homemade blocks for young children. In A. H. Ahmed & A. Berg (Eds.), *Purdue Extension Publications.* Peer reviewed by Dr. Diane W. Bales, University of Georgia, & Dr. Demetra Evangelou, Democritus University of Thrace. https://mdc.itap.purdue.edu/item.asp?Item_Number=HHS-824-W

8. **Gold, Z. S.** (2015). *Preschool Research to Practice* [Peer commentary on the paper "Acquisition of the cardinal word principle: The role of input" by K. S. Mix, C. M. Sandhofer, J. A. Moore, & C. Russell]. In D. J. Purpura & S. A. Schmitt (Eds.), *Vol. 1, Issue 1.* Preschool Research to Practice - Issue 1 Volume 1.pdf

REFEREED CONFERENCE PRESENTATIONS

1. **Gold, Z. S.,** Perlman, J.*, Howe, N., & DeHart, G. B. (2020, December). *"We can fix it! Connect the pieces:" Problem solving skills in construction play with friends.* Paper presentation accepted at the Society for Research in Child Development Special Topic Meeting. Learning through Play and Imagination: Expanding Perspectives, St. Louis, MO. Cancelled due to COVID-19.

2. Moore, N.*, Bearss, B.*, Shin, M.*, Rosenberg, S.*, Kamean, C.*, Sassouni, L.*, **Gold, Z. S.,** & DeHart, G. B. (2020, May). *Gender differences in preschoolers' prosocial behavior toward peers during engineering play.* Poster session accepted at the annual meeting of the Association for Psychological Science, Chicago, IL. Cancelled due to COVID-19.

3. **Gold, Z. S.,** Elicker, J., Howe, N., Ratliff, L., Parpart, L., & Opdahl, K. (2020, March). *Creating future innovators through creative play and STEM learning.* Proceedings of the annual conference of the International Technology and Engineering Educators Association: Elementary STEM Focus Strand, Baltimore, MD. Cancelled due to COVID-19.

4. **Gold, Z. S.,** Elicker, J., & Howe, N. (2019, July). Engineering play: Associations with spatial skills, mathematics, and executive function in guided block play. In E. N. Daubert & P. Shafto (Chairs), *Guided Playful Learning Workshop: Developmental, Computational, and Education Perspectives.* Poster session conducted at the annual meeting of the Cognitive Science Society, Montréal, QC.

5. **Gold, Z. S.,** Elicker, J., Beaulieu, B. A., Cangany, L., Horner, J., Muller, K., & Nagele, M. (2018, June). *Evaluation of a preschool teacher training program to foster engineering play behaviors in young children.* Poster session presented at the annual meeting of the Administration for Children and Families' National Research Conference on Early Childhood, Arlington, VA.

6. **Gold, Z. S.,** Elicker, J., Christ, S. L., Kellerman, A. M., Evich, C. D., Weil, A. E.*, & Mishra, A. A. (2018, June). *Engineering play: Exploring associations with executive function, mathematical ability, and spatial ability in preschool.* Poster session presented at the annual meeting of the Administration for Children and Families' National Research Conference on Early Childhood, Arlington, VA.

7. **Gold, Z. S.,** Elicker, J., Beaulieu, B. A., Cangany, L., Horner, J., Muller, K., & Nagele, M. (2018, May). *Evaluating the "Enhanced Block Party" teacher training project: Fostering engineering play behaviors in young children.* Poster session presented at the annual meeting of the Canadian Developmental Psychology Conference, St. Catharines, ON.

8. **Gold, Z. S.,** Elicker, J., Kasper M.*, Catania, G.*, Schenkel, L.*, & Kasper M.* (2018, May). *Engineering play: Associations with preschoolers' spatial ability, mathematical ability, executive function, and planning.* Poster session presented at the annual meeting of the Canadian Developmental Psychology Conference, St. Catharines, ON.

9. Elicker, J., Mishra, A. A., **Gold, Z. S.,** & Lane S. (2017, April). *Toddlers' and preschoolers' development as a function of participation in QRIS quality rated child care: A longitudinal analysis.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.

10. **Gold, Z. S.,** Mishra, A. A., & Elicker, J. (2016, July). *Assessing the role of preschoolers' engineering play on trajectories of physical and social play behaviors in a large loose parts context.* Poster session presented at the annual meeting of the Administration for Children and Families' National Research Conference on Early Childhood, Washington, DC.

11. **Gold, Z. S.,** Elicker, J., Choi, J. Y., & Anderson, T. (2015, March). *Gender and play context differences in preschoolers' physical, social, and engineering play.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

12. **Gold, Z. S.,** Anderson, T., Choi, J. Y., & Elicker, J. (2014, July). *Preschoolers' social, physical, and early engineering play in the traditional playground, the dramatic play area, and with large, manipulable, loose parts: A comparison of university laboratory school children with Head Start children.* Poster session presented at the annual meeting of Head Start's National Research Conference on Early Childhood, Washington, DC.

13. **Gold, Z. S.** & Elicker, J. (2014, April). *Preschoolers' play behaviors with large, manipulable, loose parts.* Symposium conducted at the annual meeting of the Indiana Early Childhood Conference, Indianapolis, IN.

14. **Gold, Z. S.** & DeHart, G. B. (2013, April). *Gender differences in the perceptions of adolescents' playful and aggressive use of sarcasm.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

15. Whiteman, S. D., Jensen, A. C., & **Gold, Z. S.** (2013, April). *Similarities and differences in adolescent siblings' substance use: Testing convergent and divergent influence processes.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

16. DeHart, G. B., **Gold, Z. S.,** Ottolia, G. L., Pudlewski, C. L., Vizzi, M. A., Bellomo, L. P., Van Voorhis, M., Cohoon, L. M., & Shakeel, S. A. (2012, July). *Sarcasm as verbal rough-and- tumble play in adolescents' interactions with siblings and friends.* Poster session presented at the biennial meeting of the International Society for the Study of Behavioral Development, Edmonton, AB.

17. **Gold, Z. S.,** Derella, O. J., Inserillo, J. N., McGuey, D. E. B., Iodko, O., Tiede, G. M., Whalen, J. W., & DeHart, G. B. (2012, May). *Assertive and affiliative language in 7-year-olds' and 17-year-olds' interactions with siblings and friends.* Poster session presented at the annual meeting of the Association for Psychological Science, Chicago, IL.

18. DeHart G. B., Bradley, A. M., **Gold, Z. S.,** Pudlewski, C. L., Ottolia, G. L., Vizzi, M. A., Van Voorhis, M., & Bellomo, L. P. (2011, March). Playful and aggressive use of irony in adolescents' conversations with siblings and friends. In A. E. Luckner & G. B. DeHart (Chairs), *Using and understanding irony: Playful and aggressive language and behavior in social, cultural, and developmental contexts.* Symposium conducted at biennial meeting of the Society for Research in Child Development, Montréal, QC.

19. **Gold, Z. S.,** Cope, A. C., Derella, O. J., Inserillo, J. N., Whalen, J. W., Zeiser, K. E., & DeHart, G. B. (2011, March). *The role of gender and partner in adolescents' use of assertive and affiliative language in interactions with siblings and friends.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Montréal, QC.

INVITED PRESENTATIONS & COLLOQUIUMS

1. **Gold, Z. S.** (2018, November). *Constructive play in early childhood.* Invited colloquium presented at the State University of New York at Geneseo, Department of Psychology, Geneseo, NY.

2. Elicker, J., **Gold, Z. S.,** Lane, S. Mishra, A. A., & Christ, S. (2018, May). *Indiana Paths to QUALITY Phase II evaluation research.* Invited webinar presentation to the Quality Initiatives Research and Evaluation Consortium, Department of Health and Human Services, Office of Planning Research, and Evaluation, Washington, DC.

3. **Gold, Z. S.,** Mishra, A. A., Lane, S., & Elicker J. (2018, February). Policy implications of Indiana's QRIS evaluation: Longitudinal findings on child outcomes, classroom quality, provider advancement, and parent awareness. In K. Tout (Discussant), *Quality Rating and Improvement Systems: New evidence and new questions for the future.* Invited panel discussion at the annual meeting of the Child Care and Early Education Policy Research Consortium, Arlington, VA.

4. Elicker, J., **Gold, Z. S.,** Lane, S. Mishra, A. A., & Christ, S. (2017, March). *Factors predicting quality advancement in QRIS: Provider characteristics and coach support.* Invited webinar presentation to the Quality Initiatives Research and Evaluation Consortium, Department of Health and Human Services, Office of Planning Research, and Evaluation, Washington, DC.

5. Elicker, J., **Gold, Z. S.,** Lane, S. Mishra, A. A., & Christ, S. (2017, March). Factors predicting quality advancement in QRIS: Provider characteristics and coach support. In M. Warner-Richter (Discussant), *Improving quality in early childhood education: What is the role of professional development?* Invited panel discussion at the annual meeting of the Child Care and Early Education Policy Research Consortium, Washington, DC.

6. **Gold, Z. S.** (2016, March). *Early engineering during construction play as a context for development and school readiness.* Invited colloquium presented at the State University of New York at Geneseo, Department of Psychology, Geneseo, NY.

7. Ruprecht, K. M., Elicker, J., **Gold, Z. S.,** & Mishra A. A. (2015, December). Coaching and quality improvement: How does program quality change over time*?* In M. Campbell (Discussant), *Findings from studies of quality improvement in Quality Rating and Improvement System (QRIS).* Invited panel discussion at the annual meeting of the Child Care and Early Education Policy Research Consortium, Washington, DC.

8. Elicker, J., **Gold, Z. S.,** Mishra, A. A., Ruprecht, K. M., & Yazejian, N. (2015, July). *Coaching and quality improvement: How does program quality change over time?* Invited symposium presented at the annual QRIS National Meeting, BUILD Initiative, National Harbor, MD.

9. Elicker, J., Ruprecht K. M., Lane, S., **Gold, Z. S.,** & Addie, H. R.* (2015, July). *Paths to QUALITY Evaluation Phase 2: Preliminary results report.* Presented at the annual meeting of State of Indiana's Family and Social Services Administration-Child Care Bureau, Indianapolis, IN.

QUEST & LOCAL PRESENTATIONS

1. **Gold, Z. S.** (2022, January). *Enhancing student engagement using tangible materials and objects in the classroom.* Teaching workshop presented at the annual Winter Breakout, State University of New York at Oswego, Oswego, NY.

2. **Gold, Z. S.,** Hertik, H.*, & Buckley, J.* (2021, April). *Evaluating children's problem solving in a collaborative building task.* Poster presented at the annual Quest Symposium, State University of New York at Oswego, Oswego, NY.

3. **Gold, Z. S.,** Howe, N., Elicker, J., Bergeron, C., Fuoco, J.*, Longo, M.*, Lehmann, K.*, & Infantino, E.* (2020, January). *Longitudinal effects of Rigamajig® building materials on elementary children's engineering play, physical activity, and social competence.* Poster presented at the annual meeting of the Centre for Research in Human Development, Concordia University, Montreal, QC.

4. **Gold, Z. S.,** Perlman, J.*, Howe, N., & DeHart, G. B. (2020, January). *"We can fit it! Connect the pieces:" Observed problem solving skills in construction play with friends. Poster* presented at the annual meeting of the Centre for Research in Human Development, Concordia University, Montreal, QC.

5. Bayoun, Y.*, **Gold, Z. S.,** Dunfield, K. A., & Howe. H. (2019, January). *Observing executive function and spatial patterns in collaborative block play: A cross-cultural comparison.* Poster presented at the Fourth Annual Human Development Conference, McGill University, Montreal, QC.

6. **Gold, Z. S.** (2019, January). *Engineering play: A new perspective on STEM in early education.* Symposium presented at the annual meeting of the Centre for Research in Human Development, Concordia University, Montreal, QC.

7. Bayoun, Y.*, **Gold, Z. S.,** Dunfield, K. A., & Howe. H. (2019, January). *Observing executive function and spatial patterns in collaborative block play: A cross-cultural comparison* Poster presented at the annual meeting of the Centre for Research in Human Development, Concordia University, Montreal, QC.

8. **Gold, Z. S.,** Perlman, J.*, Howe, N., & DeHart, G. B. (2019, January). *Problem solving in children's constructive play with siblings and friends.* Poster presented at the annual meeting of the Centre for Research in Human Development, Concordia University, Montreal, QC.

9. Beaulieu, B. A., **Gold, Z. S.,** Elicker, J., Horner J., Muller, K., Cangany L., & Nagele, M. (2018, June). *Fostering engineering play behaviors in young children.* Symposium presented at the annual National Extension Association for Family and Consumer Sciences, San Antonio, TX.

10. Beaulieu, B. A., Elicker, J., & **Gold, Z. S.** (2017, November). *Introducing the Enhanced Block Party.* Media display presented at the annual Purdue Extension Professional Development Conference, West Lafayette, IN.

11. **Gold, Z. S.,** Elicker, J., & Beaulieu, B. A. (2017, April). *The Enhanced Block Party: Fostering engineering play behaviors in young children.* Presented at the College of Health and Human Sciences Cooperative Extension Service's Annual Conference for Early Educators, West Lafayette, IN.

12. **Gold, Z. S.,** Hine, C., & Elicker, J. (2016, November). *Investigation based teaching practices to foster engineering play behaviors in young children.* Teacher professional development workshop presented at the Ben and Maxine Miller Child Development Laboratory School, Purdue University, West Lafayette, IN.

13. **Gold, Z. S.,** & Beaulieu, B. A. (2016, November). *Educational uses for engineering play in early childhood settings.* Invited discussion presented at the annual State Conference of the Purdue Council on Agriculture, Research, Extension, and Teaching, West Lafayette, IN.

14. Beaulieu, B. A., & **Gold, Z. S.** (2016, October). *Block Party: An interactive parent-child block play workshop.* Presented at Purdue University Lyles-Porter Hall, Indiana University School of Medicine – Lafayette, West Lafayette, IN.

15. Schmitt, S. A., Nichols Linebarger, D. L., Purpura, D. J., Elicker, J., & **Gold, Z. S.** (2016, October). *Innovations in early learning: Self-regulation and STEM.* Presented at the Ben and Maxine Miller Child Development Laboratory School 90th Anniversary Commemoration, West Lafayette, IN.

16. Elicker, J., Ruprecht, K. M., Anderson, T., & **Gold, Z. S.** (2015, March). *Evaluation of Paths to QUALITY, Indiana's child care quality rating and improvement system: Implementation, validity and outcomes.* Poster session presented at the annual meeting of the Purdue University Scholarship of Engagement Workshop, West Lafayette, IN.

17. **Gold, Z. S.** (2014, November). *Educational benefits of the Imagination Playground™ Blocks.* Invited workshop presented to the Purdue Council on Agriculture, Research, Extension, and Teaching, West Lafayette, IN.

18. **Gold, Z. S.,** & Elicker, J. (2014, September). *Preschoolers' physical, social, and engineering play behaviors: Differences in gender and play environment.* Presented at the annual meeting of the Purdue University Center for Families Advisory Council, West Lafayette, IN.

TECHNICAL REPORTS

1. **Gold, Z. S.,** Elicker, J., Howe, N., Bergeron, C., Fuoco, J.*, Longo, M.*, Lehmann, K.*, & Infantino, E.* (2019). *The effects of Rigamajig play materials on elementary children's early development, learning, and interest in STEM.* (Technical Report). Submitted to the KABOOM! National Non-Profit. Montreal, QC: Concordia University.

2. Elicker, J., Lane, S., **Gold, Z. S.,** Mishra, A. A., & Christ, S. (2018). Final report: *Paths to QUALITY Evaluation* (Technical Report). Submitted to the Indiana Office of Early Childhood and Out of School Learning Family and Social Services Administration. West Lafayette, IN: Purdue University. Retrieved from https://docs.lib.purdue.edu/cffpub/70/

3. **Gold, Z. S.,** & Elicker, J. (2017). *Engineering play: Exploring associations with executive function, mathematical ability, and spatial ability in preschool.* (Technical Report). Submitted to the Purdue University Center for Families. West Lafayette, IN: Purdue University.

4. Elicker, J., **Gold, Z. S.,** Beaulieu, B. A., Cangany, L. Muller, K., Nagele, M., Horner, J., & Hine, C. (2017). *Final report: Evaluation of the Purdue University/Kodo Kids™ teacher training project "The Enhanced Block Party: Fostering engineering play behaviors in young children."* (Technical Report). Submitted to the College of Health and Human Sciences Cooperative Extension. West Lafayette, IN: Purdue University.

5. Elicker, J., **Gold, Z. S.,** & Beaulieu, B. A. (2017). *Final report: Evaluation of Purdue University/Kodo Kids™ teacher training project "The Enhanced Block Party: Fostering engineering play behaviors in young children"* (Technical Report). Submitted to Kodo Kids™ Educational Company LLC. West Lafayette, IN: Purdue University.

6. Elicker, J., Lane S., **Gold, Z. S.,** & Christ, S. L. (2017). *Paths to QUALITY evaluation progress report.* (Technical Report). Submitted to the Indiana Office of Early Childhood and Out of School Learning. West Lafayette, IN: Purdue University.

7. **Gold, Z. S.,** Elicker, J., & Beaulieu, B. A. (2017). *The Enhanced Block Party: Fostering engineering play behaviors in young children: Mid-project report.* (Technical Report). Submitted to the College of Health and Human Sciences Cooperative Extension. West Lafayette, IN: Purdue University.

8. Elicker, J., Lane S., **Gold, Z. S.,** & Mishra, A. A. (2016). *Paths to QUALITY evaluation progress report.* (Technical Report). Submitted to the Indiana Office of Early Childhood and Out of School Learning. West Lafayette, IN: Purdue University.

9. Elicker, J., Ruprecht, K., **Gold, Z. S.,** & Mishra, A. A. (2015). *Paths to QUALITY evaluation progress report.* (Technical Report). Submitted to the Indiana Family and Social Services Administration-Child Care Bureau. West Lafayette, IN: Purdue University.

10. **Gold, Z. S.,** Elicker, J., Anderson, T., & Choi, J. Y. (2015). *Preschoolers' physical, social, and engineering play behaviors: Differences in gender and play environment.* (Technical Report). Submitted to the Purdue University Center for Families. West Lafayette, IN: Purdue University.

11. Elicker, J., Anderson, T., Choi, J. Y., Schlesinger-Devlin, E., & **Gold, Z. S.** (2013). *Children's social competence, physical activity, and early engineering thinking in the Imagination Playground™, traditional playground, and dramatic play area.* (Technical Report). Submitted to the KABOOM! National Non-Profit. West Lafayette, IN: Purdue University.

RESEARCH BRIEFS

1. **Gold, Z. S.,** & Burch, R. L. (2021). *Final report: Curriculum Innovation Grant. Development of HDV 343: Early Childhood Play Behavior.* (Research Brief). Submitted to the Committee on Learning and Teaching. Oswego, NY: State University of New York at Oswego.

2. **Gold, Z. S.,** & Burch, R. L. (2021). *Interim report: Curriculum Innovation Grant. Development of HDV 343: Early Childhood Play Behavior.* (Research Brief). Submitted to the Committee on Learning and Teaching. Oswego, NY: State University of New York at Oswego.

3. Elicker, J., **Gold, Z. S.,** & Howe, N. (2019). *The effects of Rigamajig® play materials on elementary children's early development, learning, and interest in STEM.* (Research Brief). Submitted to the KABOOM! National Non-Profit. Montreal, QC: Concordia University.

4. Elicker, J., **Gold, Z. S.,** Beaulieu, B. A., Cangany, L. Muller, K., Nagele, M., Horner, J., & Hine, C. (2017). *The Enhanced Block Party: A new preschool teacher training supporting young children's play using investigation-based teaching practices.* (Research Brief). Submitted to the College of Health and Human Sciences Cooperative Extension. West Lafayette, IN: Purdue University.

5. Elicker, J., **Gold, Z. S.,** & Beaulieu, B. A. (2017). *The Enhanced Block Party: A new preschool teacher training supporting young children's play using investigation-based teaching practices.* (Research Brief). Submitted to Kodo Kids™ Educational Company LLC. West Lafayette, IN: Purdue University.

6. Elicker, J., **Gold. Z. S.,** & Lane S. (2017). *Paths to QUALITY evaluation statewide parent awareness survey* (Research Brief). Submitted to the Indiana Office of Early Childhood and Out of School Learning. West Lafayette, IN: Purdue University.

MEDIA COVERAGE

2022 — *Professor partners with Children's Museum of Oswego to research STEM learning in children with disabilities* – By SUNY Oswego Office of Communications and Marketing (Oswego Today – Campus Update: February 23, 2022)
Oswego professor partners with museum to research STEM learning in children with disabilities | SUNY Oswego news + events

2021 — *Zachary Gold of @sunyoswego publishes first research linking children's engineering thinking with executive function skills* – By the Journal of Engineering Education @JEE_Editors on Twitter

2020 — *Children's museum of Oswego to offer free resource in collaboration with SUNY faculty member* – By the Watertown Daily Times (NNY360.com, Newsbreak.com, Dailyadvent.com, @iloveny)
https://www.newsbreak.com/news/entertainment/2123779343479/childrens-museum-of-oswego-to-offer-free-resource-in-collaboration-with-suny-faculty-member

2020 *CMOO launches new at-home play plans* – By the Palladium-Times (Oswegocountynewsnow.com)
http://www.oswegocountynewsnow.com/news/cmoo-launches-new-at-home-play-plans/article_db316130-3314-11eb-8b1d-2f246f350ec7.html

2020 *New research linking Rigamajig® with kids' STEM learning* – By KABOOM!
https://kaboom.org/creative_play/rigamajig/research_kids_stem_learning

2020 *Research*: *Rigamajig® builds 21 century skills and development in STEM disciplines!* – By Rigamajig
https://www.rigamajig.com/research/

PROFESSIONAL SERVICE

Journal Reviewer

Journal of Engineering Education	2021-
Early Education and Development	2019-
Merrill-Palmer Quarterly	2017-

Conference Reviewer 2016-
Administration for Children and Families (ACF),
National Research Conference on Early Childhood

COMMUNITY SERVICE

2021 *College of Liberal Arts and Sciences Faculty and Staff Social.* Fundraising and networking event at the Children's Museum of Oswego (CMOO), Oswego, NY.

2020 *Supporting Executive Function Skills with Imagination Playground Big Blue Blocks.* Staff training conducted for the Children's Museum of Oswego (CMOO), Oswego, NY.

Identifying and Supporting Children's Learning through Informal Play Experiences. Staff training conducted for the Children's Museum of Oswego (CMOO), Oswego, NY.

UNIVERSITY SERVICE

2022- *Member, Curriculum Innovation Grant (CIG) Review Subcommittee*
State University of New York at Oswego, Oswego, NY.

2021- *Member, Committee on Learning and Teaching (COLT)*
State University of New York at Oswego, Oswego, NY.

DEPARTMENTAL SERVICE

2022- *Chair, Human Development Colloquium Series*
State University of New York at Oswego, Oswego, NY.

2021- *Member, Assessment Committee, Human Development*
State University of New York at Oswego, Oswego, NY.

2020- *Chair, Media and Communications Committee, Human Development*
State University of New York at Oswego, Oswego, NY.

2015 *Graduate Advisor, Human Development and Family Studies Club*
Purdue University, West Lafayette, IN.

2015 *Graduate Recruitment Committee, Human Development and Family Studies*
Purdue University, West Lafyette, IN.

PROFESSIONAL AFFILIATIONS

Cognitive Science Society	2019-
Jean Piaget Society	2016-
American Educational Research Association	2014-
National Association for the Education of Young Children	2014-
Society for Research in Child Development	2011-
U.S. Play Coalition	2021-

TECHINCAL SKILLS

Statistical Analysis Packages: SAS, SPSS, STATA

Methodological Foci: Observational Methodology, RCT Intervention Design, Measurement Development