

CONTACT
INFORMATION

305 Wallace Hall
295 West Campus Drive
Human Development and Family Science
Virginia Tech
Blacksburg, Virginia 24061 USA

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RESEARCH
INTERESTS

My research interests are at the intersection between cognitive development and media technology. I am interested in understanding how children learn in a complex and dynamic digital media environment. My work has focused on four aspects of learning from media, including examining (1) the impact of media on learning, (2) characterizing individual and contextual differences that moderate or mediate media effects, (3) identifying cognitive mechanisms underlying media-based learning, and (4) connecting computational modeling and data analytics to describe and predict this learning. I employ multiple methods such as experimental designs, individual difference measures, eye-tracking methodologies, and statistical and computational approaches to tackle these questions. My goal is to connect cognitive development and media technology to explain and support children's learning.

EDUCATION

University of Wisconsin-Madison, Wisconsin, USA

Ph.D., Human Development and Family Studies (Minor: Educational Psychology), May 2016

- Dissertation: Toddlers' learning from touch screens: The role of working memory
- Advisor: Dr. Heather Kirkorian
- Minor Advisor: Dr. Haley Vlach

Seoul National University, Seoul, South Korea

M.A., Child Development and Family Studies, August 2011

- Thesis: Two-, three-, and four-year-olds' use of accuracy cues in word learning
- Advisor: Dr. Soon Hyung Yi

Seoul National University, Seoul, South Korea

B.A., Family and Child Studies / Psychology, March 2008

- Cum Laude

PROFESSIONAL
POSITIONS

Department of Human Development and Family Science

Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA

Assistant Professor in Human Development and Family Science

08/2018 - Present

- The Center for Humanities Affiliated Faculty Member

09/2019 - Present

Department of Psychology

Rutgers University-Newark, New Jersey, USA

Postdoctoral Fellow (PI: Dr. Elizabeth Bonawitz)

09/2017- 07/2018

Department of Psychology

University of California, Riverside, California, USA

Postdoctoral Scholar (PI: Dr. Rebekah Richert)

07/2016- 06/2017

WORK
EXPERIENCE

Department of Human Development and Family Studies
University of Wisconsin-Madison, Wisconsin, USA
Graduate Project Assistant (PI: Dr. Heather Kirkorian)

08/2012 - 05/2016

Lead Teacher
Hynix Child Care Center, Icheon, South Korea

02/2008 - 01/2009

RESEARCH SUPPORT

External Funding

- Science of Learning and Augmented Intelligence - \$780,505 National Science Foundation
PI: Koeun Choi **Pending**
Co-PI: Myounghoon Jeon, Tae-Ho Lee
Proposal: Investigating the psychological process and neural basis of learning from robots in early childhood (2022-2025)
Role: Principal Investigator
- NICHD Small Grant Program (R03) - \$142,175 National Institutes of Health
PI: Cynthia L. Smith **Pending**
Co-PI: Koeun Choi
Proposal: Impact of parental technology use on parent-child interactions and toddlers' self-regulation (2022-2024)
Role: Co-Principal Investigator
- National Robot Initiative 3.0 - \$1,300,658 National Science Foundation
PI: Myounghoon Jeon **Pending**
Co-PI: Koeun Choi, Chelsea Lyles, Phyllis Newbill, Tanner Upthegrove, Ariana Wyatt
Proposal: Robot musical theater: Engaging underrepresented students in informal STEAM learning using robots and immersive technologies (2022-2025)
Role: Co-Principal Investigator

Internal Funding

- Institute for Creativity, Arts, and Technology (ICAT) Grant; Center for Human-Computer Interaction (CHCI) matching funds - \$26,000 Virginia Tech
PI: Myounghoon Jeon **July 1, 2021 - May 31, 2022**
Co-PIs: Koeun Choi, Phyllis Newbill, Tanner Upthegrove, Ariana Wyatt, Chelsea Lyles
Proposal: Robot musical theater for promoting STEAM education and integrated art performances
Role: Co-Principal Investigator
- The Center For Humanities Professional Development Grant - \$1,500 Virginia Tech
PI: Koeun Choi **September 19, 2019 - May 31, 2021**
Role: Principal Investigator
- Institute for Society, Culture, and Environment Unsolicited Grant - \$4,360 Virginia Tech
PI: Koeun Choi **August 12, 2019 - December 31, 2019**
Co-PI: Cynthia L. Smith
Proposal: Child temperament and early screen time: The mediating role of parental stress
Role: Principal Investigator
- College of Liberal Arts and Human Sciences Niles Research Grant - \$5,000 Virginia Tech
PI: Koeun Choi **July 1, 2019 - June 1, 2020**
Proposal: Children's and adults' selective learning from human, print, and digital information

sources

Role: Principal Investigator

- Institute for Creativity, Arts, and Technology (ICAT) Science, Engineering, Art, and Design (SEAD) Grant - \$25,000
PI: Koeun Choi
Co-PIs: Benjamin D. Katz, Adrienne Holz Ivory, Gota Morota
Proposal: Mobile learning across the life span: Processing and learning information from mobile media technology in children, young adults, and older adults
Role: Principal Investigator
Virginia Tech
July 1, 2019 - May 31, 2021
- New Faculty Mentoring Project Grant - \$1,500
PI: Koeun Choi
Proposal: Active mentoring to advance research in children and technology
Role: Principal Investigator
Virginia Tech
June 1, 2019 - May 31, 2021

AWARDS AND HONORS

Outstanding Undergraduate Research Mentor Award from the Office of Undergraduate Research at Virginia Tech **2021**
Top Paper Award from the Children, Adolescents, and Media Division of International Communication Association (Kirkorian, Choi, Yoo, & Etta) **2018**
Top Paper Award from the Children, Adolescents, and Media Division of International Communication Association (Kirkorian, Choi, & Anderson) **2017**
Society for Research in Child Development Early Career Travel Award (\$500) **2017**
Human Development & Family Studies Outstanding Research Award (\$400) **2016**
Sackler Colloquia National Academy of Sciences Travel Award (\$1,000) **2015**
Schurch-Thomson Graduate Research Award (\$2,000) **2015**
Human Development & Family Studies Summer Research Award (\$1,500/yr) **2014-2015**
Human Development & Family Studies Travel Award (\$500/yr) **2013-2016**
Meyers Fund of the School of Human Ecology Travel Award (\$500/yr) **2014-2016**
McPherson ERI David G. Walsh Research Travel Award (\$1,000) **2013**
Viola Baker Endowment School of Human Ecology Travel Award (\$500) **2013**
Human Development & Family Studies Outstanding Research Scholarship Award **2013**
Society for Research in Child Development Travel Award (\$300) **2013**
Korean Honor Scholarship sponsored by the Embassy of the Republic of Korea (\$1,000) **2012**
Graduate Student Academic Award, Korea Institute of Child Care & Education (\$500) **2010**
Seoul National University Entrance Scholarship, Seoul National University **2003**

PROFESSIONAL SOCIETY MEMBERSHIPS

- Korean Association of Child Studies. 2020 - Present
- Korean Society for Cognitive Enhancement and Intervention. 2019 - Present
- Korean Psychological Association, Developmental Psychology Division. 2019 - Present
- Cognitive Science Society. 2017 - Present
- Cognitive Development Society. 2015 - Present
- International Congress of Infant Studies 2012 - Present
- Society for Research in Child Development. 2011 - Present

PEER REVIEWED JOURNAL ARTICLES

6 corresponding author (4 first author, 2 senior author), 7 co-author
Student co-authors; *Corresponding author

2021

13. *Choi, K. (in press). Sesame Street: Beyond 50. *Journal of Children and Media*, 14(4).

12. Macias, C., & ***Choi, K.** (in press). Preschoolers' beliefs about media technologies: The role of family income. *Human Behavior and Emerging Technologies*
 11. Rosengren, K., Kirkorian, H. L., **Choi, K.**, Jiang, M. J., Raimor, C., Tolkin, E., & Sartin-Tarm, A. (in press). Attempting to break the fourth wall: Young children's action errors with screen media *Human Behavior and Emerging Technologies*
 10. Kirkorian, H. L., **Choi, K.**, Etta, R., & Yoo, S. H. (2021). The impact of touchscreen interactivity on U.S. toddlers' selective attention and learning from digital media. *Journal of Children and Media* <https://doi.org/10.1080/17482798.2021.1944888>
 9. Shin, E., ***Choi, K.**, Resor, J., & Smith, C. L. (2021). Why do parents use screen media with toddlers? The role of child temperament and parenting stress in early screen use. *Infant Behavior and Development*, 64, 101595. <https://doi.org/10.1016/j.infbeh.2021.101595>
 8. ***Choi, K.**, Kirkorian, H. L., & Pempek, T. A. (2021). Touchscreens for whom? Working memory and age moderate the impact of contingency on toddlers' transfer from video. *Frontiers in Psychology*, 12, 621372. <https://doi.org/10.3389/fpsyg.2021.621372>
- 2020
7. Kirkorian, H. L., Travers, B., Jiang, M., **Choi, K.**, Rosengren K. S., Pavalko P., & Tolkin, E. (2020). Drawing across media: A cross-sectional experiment on preschoolers' drawings produced using traditional versus electronic mediums. *Developmental Psychology*, 56(1), 28-39. <https://doi.org/10.1037/dev0000825>
- 2019
6. Kirkorian, H. L., **Choi, K.**, & Anderson, D. R. (2019). American parents' active involvement mediates the impact of background television on toddlers' play. *Journal of Children and Media*, 13(4), 377-394. <https://doi.org/10.1080/17482798.2019.1635033>
- 2018
5. ***Choi, K.**, Kirkorian, H. L., & Pempek, T. A. (2018). Understanding the transfer deficit: Contextual mismatch, proactive interference, and working memory affect toddlers' video-based transfer. *Child Development*, 89(4), 1378-1393. <https://doi.org/10.1111/cdev.12810>
 4. Travers, B. G., Kirkorian, H. L., Jiang, M. J., **Choi, K.**, Rosengren, K. S., Pavalko, P., & Jobin, P. (2018). Knowing how to fold 'em: Paper folding across early childhood. *Journal of Motor Learning and Development*, 6(1), 147-166. <https://doi.org/10.1123/jmld.2016-0044>
- 2017
3. Kirkorian, H. L., & **Choi, K.** (2017). Associations between toddlers' naturalistic media experience and observed learning from screens. *Infancy*, 22(2), 271-277. <https://doi.org/10.1111/infa.12171>
- 2016
2. ***Choi, K.**, & Kirkorian, H. L. (2016). Touch or watch to learn? Toddlers' object retrieval using contingent and noncontingent video. *Psychological Science*, 27(5), 726-736. <https://doi.org/10.1177/0956797616636110>
 1. Kirkorian, H. L., **Choi, K.**, & Pempek, T. A. (2016). Toddlers' word learning from contingent and noncontingent video on touch screens. *Child Development*, 87(2), 405-413. <https://doi.org/10.1111/cdev.12508>
- PEER-REVIEWED
PAPERS IN
CONFERENCE
PROCEEDINGS
- 2019
2. ***Choi, K.**, Grados, M., & Bonawitz, E. (2019). Observing child-led exploration improves parents' causal inferences. *Proceedings of the 41th Annual Conference of the Cognitive Science Society*. Montreal, Canada: Cognitive Science Society. <https://mindmodeling.org/cogsci2019/papers/0272/index.html>

2018

1. ***Choi, K.**, Lapidow, E., Austin, J., Shafto, P., & Bonawitz, E. (2018). Preschoolers are more likely to direct learning content questions to adults than to other children (or selves) during spontaneous conversational acts. *Proceedings of the 40th Annual Conference of the Cognitive Science Society*. Madison, WI: Cognitive Science Society. <http://mindmodeling.org/cogsci2018/papers/0061/index.html>

MANUSCRIPTS IN
PREPARATION

- . **Choi, K.**, Schlesinger, M. A., Franchak, J. M, & Richert, R. A. (in prep). Preschoolers use others' effort as a cue to selective attention and imitation: An eye-movement study.
- . **Choi, K.**, Lapidow, E., Austin, J., Shafto, P., & Bonawitz, E. (in prep). Preschoolers are more likely to direct learning content questions to adults than to other children (or selves) during spontaneous conversational acts.
- . **Choi, K.**, Grados, M., & Bonawitz, E. (in prep). Child-led play supports parents to make flexible and exploratory causal inferences.

BOOK CHAPTERS 2 co-author

2. Kirkorian, H. L., Pempek, T. A., & **Choi, K.** (2017). The role of online processing in young children's ability to learn from interactive and noninteractive media. In R. Barr & D. Linebarger (Eds.), *Media exposure during infancy and early childhood: The effect of content and context on learning and development*. Springer. https://doi.org/10.1007/978-3-319-45102-2_5
1. Yi, S., Kim, M., Gun, K., Jung, J., Song, M., & **Choi, K.** (2011). *Early childhood education program of intergenerational integration: Integrating early childhood program series*. Seoul: Hakjisa.

INVITED
PRESENTATIONS

8 domestic and 4 international

12. **Choi, K.** (2021, November). *Digital media and child development* Keynote scheduled at the meeting of the Korean Society for Developmental Psychology. South Korea. Virtual.
11. **Choi, K.** (2021, May 14). *Cognitive development and digital technology*. Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology (KAIST). South Korea. Virtual.
10. **Choi, K.** (2019, August 5). *Children and technology: Understanding cognitive development in digital contexts*. Department of Child Development and Family Studies, Seoul National University, Seoul, South Korea.
9. **Choi, K.** (2018, December 6). *Children's transfer of learning from interactive media technology*. Center for Humanities, Virginia Tech, VA.
8. **Choi, K.** (2018, October 26). *Children's transfer of learning from interactive media technology*. Department of Psychology, Hollins University, VA.
7. **Choi, K.** (2018, October 15). *Children's transfer of learning from interactive media technology*. National Institute of Education, Singapore.
6. **Choi, K.** (2018, June 1). *Parent-child conjunctive play helps parents to think more flexibly*. Guiding Guided Play Workshop, Newark, NJ.
5. **Choi, K.** (2018, January 8). *Understanding cognitive development in digital media environments*. Department of Human Development & Family Science, Virginia Tech.
4. **Choi, K.** (2017, October). *Interactions with touch screens improve toddlers' transfer independent of individual differences in working memory*. Cognitive Development Society Pre-Conference Workshop on Digital Media & Cognitive Development, Portland, OR.
3. **Choi, K.** (2016, March). *Touch or watch to learn? Children's learning from interactive & non-interactive symbolic media*. Developmental Brown Bag, Department of Psychology, UW-Madison, WI.
2. **Choi, K.** (2015, December). *Touch or watch to learn? Children's learning from interactive media*, *Children's Digital Media Center*. Georgetown University, WA.

1. **Choi, K.** (2014, December). *Eye movements as a window into children's learning from visual media*, McPherson Eye Research Institution Seminar. UW-Madison, WI.

PEER-REVIEWED
PRESENTATIONS Student co-authors

- 2021
45. **Choi, K.**, Grados, M., & Bonawitz, E. (2021, April 7-9). *Child-led play supports adults' exploratory causal inferences*. Talk presented at the biennial meeting of the Society for Research in Child Development. Virtual.
 44. Macias, C., & **Choi, K.** (2021, April 7-9). *Preschoolers' beliefs about different symbolic media: The role of socioeconomic backgrounds*. Talk presented at the biennial meeting of the Society for Research in Child Development. Virtual.
 43. **Choi, K.**, Kim, J., Shin, E., & Smith, C. L. (2021, April 7-9). *Maternal media beliefs moderate the relation between parenting stress and toddlers' screen use*. Poster presented at the biennial meeting of the Society for Research in Child Development. Virtual.
 42. Zettersten, M., **Choi, K.**, Kirkorian, H., & Saffran, J. (2021, April 7-9). *Children actively sample information in support of learning new words*. Talk presented at the biennial meeting of the Society for Research in Child Development. Virtual.
- 2020
41. Shin, E., **Choi, K.**, & Smith, C. L. (2020, November 2). *Why do parents use screen media with toddlers? The role of child temperament and parenting stress in early screen time*. Talk presented at the 23rd Occasional Temperament Conference, Blacksburg, VA. Virtual.
 40. **Choi, K.**, Grados, M., & Bonawitz, E. (2020, May 28-29). *Child-led play supports adults' exploratory causal inferences*. Talk accepted at the special topics meeting of the Society for Research in Child Development: Learning through Play and Imagination, St. Louis, MO (Conference canceled due to COVID-19).
- 2019
39. **Choi, K.**, Grados, M., & Bonawitz, E. (2019, October 19). *Learning from children: Adults' exploratory causal inferences benefit from observing child-led explorations*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.
 38. Zettersten, M., **Choi, K.**, Kirkorian, H. L., & Saffran, J. (2019, October 18). *How does active sampling support learning new words?* Poster presented at the Pre-Conference Workshop on digital media and cognitive development of the Cognitive Development Society, Louisville, KY.
 37. Macias, C., Shaban, F., Bonawitz, E., & **Choi, K.** (2019, October 17). *The effect of socioeconomic status on young children's perceptions about media devices*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.
 36. **Choi, K.**, Grados, M., & Bonawitz, E. (2019, July 27). *Observing child-led exploration improves parents' causal inferences*. Poster presented at the 41th annual Cognitive Science Society meeting, Montreal, Canada.
 35. Rett, A., Bonawitz, E., **Choi, K.**, & Walker, C. (2019, July 27). *I never even considered that! Investing explanations for adults failures to learn conjunctive causal rules*. Poster presented at the 41th annual Cognitive Science Society meeting, Montreal, Canada.
 34. Rett, A., Bonawitz, E., **Choi, K.**, & Walker, C. (2019, July 13). *When evidence alone is not enough: Facilitating the generation of unusual causal hypotheses*. Poster presented at the 45th annual meeting of the Society for Philosophy and Psychology, San Diego, CA.
 33. **Choi, K.**, Lapidow, E., Austin, J., Shafto, P., & Bonawitz, E. (2019, March 23). *Preschoolers are more likely to direct learning content questions to adults than to other children (or selves) during spontaneous conversational acts*. Talk presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
 32. **Choi, K.**, & Bonawitz, E. (2019, March 23). *Child-led play supports parents to make flexible and exploratory causal inferences*. Talk presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.

31. Baugh, C., Richert, R., Schlesinger, M., & **Choi, K.** (2019, March 22). *The role of perceived similarity in children's social learning*. Poster presented at the biennial meeting of the Society for Research in Child Development, Baltimore, MD.
- 2018
30. **Choi, K.**, Lapidow, E., Austin, J., Shafto, P., & Bonawitz, E. (2018, July 27). *Preschoolers are more likely to direct learning content questions to adults than to other children (or selves) during spontaneous conversational acts*. Talk presented at the 40th annual Cognitive Science Society meeting, Madison, WI.
 29. **Choi, K.**, & Bonawitz, E. (2018, July 20). *Adults can exploit children's exploration for their own learning: Child-led play supports adult causal conjunctive inferences*. Poster presented at the Pre-Conference Workshop on understanding exploration-exploration trade offs at the 40th annual Cognitive Science Society meeting, Madison, WI.
- 2017
28. **Choi, K.**, Schlesinger, M. A., Grant, C., Puttre, H. J., Franchak, J. M., & Richert, R. A. (2017, October). *Preschoolers use others' effort as a cue to attention and selective imitation*. Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.
 27. Lapidow, E., Bonawitz, E., Shafto, P., Austin, J., **Choi, K.**, Tariq, S., & Bell, C. (2017, October). *Preschoolers are more likely to direct questions to adults than to other children (or selves) during spontaneous conversational acts*. Poster presented at the Cognitive Development Society Pre-Conference Workshop on Question Asking on Childhood, Portland, OR.
 26. Jiang, M., **Choi, K.**, Raimor, C., Kirkorian, H. L., Tolkin, E., Sartin-Tarm, A., & Rosengren, K. S. (2017, October). *Children's action errors: A diary study in their natural environment*. Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.
 25. Kirkorian, H., **Choi, K.**, Yoo, S. & Etta, R. A. (2017, October). *Selective attention and learning from interactive and noninteractive video: An eye movement study*. Poster presented at the biennial meeting of the Cognitive Development Society, Portland, OR.
 24. **Choi, K.**, Schlesinger, M. A., Franchak, J. M., & Richert, R. A. (2017, May). *Character perceptions guide children's looking to and learning from on-screen characters*. Talk presented at the annual meeting of the International Communication Association, San Diego, CA.
 23. Kirkorian, H. L., **Choi, K.**, & Anderson, D. R. (2017, May). *Parents' active engagement mediates the impact of background TV on toddlers' play*. Talk presented at the annual meeting of the International Communication Association, San Diego, CA.
 22. **Choi, K.**, Kirkorian, H. L., & Etta, R. A. (2017, April). *The effect of contextual variability on the generalization of category labels between symbolic mediums*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
 21. Etta, R. A., Kirkorian, H. L., & **Choi, K.** (2017, April). *Preschoolers' learning from children's books: Effects of platform and interactivity*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
 20. Jiang, M., **Choi, K.**, Kirkorian, H. L., Travers, B. G., Rosengren, K. S., Millerhagen, J., Lee, C., & Haugstad, N. (2017, April). *Drawing across mediums: The impact of technology on the quality and production of drawings*. Poster presented at the biennial meeting of the Society for Research in Child Development, Austin, TX.
- 2016
19. **Choi, K.**, Kirkorian, H. L., Pempek, T. A., & Etta, R. A. (2016, October). *On-screen or off-screen? The role of retrieval contexts and working memory in toddlers' object retrieval using touch screens*. Flask talk presented at the special topics meeting of the Society for Research in Child Development, Irvine, CA.
 18. **Choi, K.**, Kirkorian, H. L., Pempek, T. A., & Etta, R. A. (2016, May). *Toddlers' object retrieval using touchscreens: The role of working memory skills*. Talk presented at the biennial meeting of the International Congress of Infant Studies, New Orleans, LA.
 17. Jiang, M. J., **Choi, K.**, Kirkorian, H. L., Travers, B. G., Rosengren, K. S., Jobin, P., Pavalko, P., Matoba, M. & Tolkin, E. (2016, May). *Drawing across media: The impact of technology on the*

quality of drawings. Poster presented at the annual meeting of the Association for Psychological Science, Chicago, IL.

- 2015
16. **Choi, K.**, Kirkorian, H. L., Pempek, T. A., Schroeder, E. L., & Etta, R. A. (2015, October). *The impact of contextual differences on toddlers' object retrieval using touchscreens.* Poster presented at the Digital Media & Developing Minds Conference, National Academies of Sciences Sackler Colloquia, Irvine, CA.
 15. **Choi, K.**, Kirkorian, H. L., Pempek, T. A., Schroeder, E. L., & Etta, R. A. (2015, October). *The impact of contextual differences on toddlers' object retrieval using touchscreens.* Poster presented at the biennial meeting of the Cognitive Development Society, Columbus, OH.
 14. Kirkorian, H. L., **Choi, K.**, Pempek, T. A., Schroeder, E. L., & Etta, R. A. (2015, May). *Toddlers' learning from interactive vs. non-interactive mediated experiences using touchscreens.* Talk presented at the annual meeting of the International Communication Association, San Juan, PR.
 13. Kirkorian, H. L., **Choi, K.**, Schroeder, E., Pempek, T. A., & Etta, R. A. (2015, May). *Toddlers' learning from video: The role of cognitive-control skills.* Talk presented at the annual meeting of the International Communication Association, San Juan, PR.
 12. **Choi, K.**, Kirkorian, H. L., Pempek, T. A., & Schroeder, E. L. (2015, March). *Toddlers' object retrieval using touchscreens: The role of working memory skills.* Talk presented at the biennial meeting of the Society for Research in Child Development in Philadelphia, PA.
 11. Kirkorian, H. L., **Choi, K.**, Schroeder, E. L., & Etta, R. A. (2015, March). *Object retrieval using interactive video: The role of visual selection in learning from screens.* Talk presented at the biennial meeting of the Society for Research in Child Development in Philadelphia, PA.
- 2014
10. Kirkorian, H. L., **Choi, K.**, Pempek, T. A., & Schroeder, E. L. (2014, June). *Toddlers' learning from interactive and non-interactive video on touchscreens.* Poster presented at the biennial meeting of the International Society on Infant Studies in Berlin, Germany.
 9. **Choi, K.**, Schroeder, E. L., & Kirkorian, H. L. (2014, May). *Toddlers' learning from touchscreens: Object retrieval using interactive vs. non-interactive video.* Talk presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- 2013
8. **Choi, K.**, & Kirkorian, H. L. (2013, November). *Attention, comprehension, and learning from video: Evidence from eye movement studies.* Poster presented at Learning to attend, attending to learn: Neurological, behavioral, and computational perspectives, San Diego, CA.
 7. Kirkorian, H. L., & **Choi, K.** (2013, October). *Age differences in top-down control of visual attention during video viewing.* Talk presented at the biennial meeting of the Cognitive Development Society, Memphis, TN.
 6. Vigna, A., **Choi, K.**, Clarkson, A., Hickey, E., Burgess-Hull, A., Burnson, C., Runion, H., Sheche, J., & Pinela, C. (2013, October). *The development, assessment, and impact of a low-cost mindfulness meditation outreach program for a university campus community.* Poster presented at the Conference for Contemplative Practices to Promote Child and Family Well-Being, Madison, WI.
 5. **Choi, K.**, & Kirkorian, H. L. (2013, April). *Object retrieval using contingent vs. non-contingent video on touchscreens.* Poster presented at the biennial meeting of the Society of Research in Child Development, Seattle, WA.
 4. **Choi, K.**, Kirkorian, H. L., Hanson, K. G., & Anderson, D. R. (2013, April). *The impact of background television and parent-child interaction on young children's toy play.* Poster presented at the biennial meeting of the Society of Research in Child Development, Seattle, WA.
 3. Kirkorian, H. L., **Choi, K.**, & Pempek, T. A. (2013, April). *Toddlers' word-learning from contingent vs. non-contingent video on touchscreens.* Talk presented at the biennial meeting of the Society of Research in Child Development, Seattle, WA.
- 2012
2. Kirkorian, H., & **Choi, K.** (2012, June). *Eye-tracking techniques for studying age differences in online processing of video.* Poster presented at the Eye Tracking Methodology in Child and Infant Research, Minneapolis, MN.

1. Burgess-Hull, A., Burnson, C., **Choi, K.**, Hickey, E., Pinela, C., Runion, H., Samuelson, A., Sheche, J., & Vigna, A. (2012, April). *The development, assessment, and impact of a mindfulness meditation outreach program*. Poster presented at the International Symposia of Contemplative Studies, Denver, CO.

INTRAMURAL SEMINARS

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|------|---|
| 2021 | <ul style="list-style-type: none"> • Choi, K. (2021, March 3). <i>How do we perceive and learn from robots?</i> Center for Humanities, Virginia Tech, VA. Virtual. |
| 2020 | <ul style="list-style-type: none"> • Choi, K. (2020, February 19). <i>Children's active learning with technology</i>. Center for Humanities, Virginia Tech, VA. Virtual. |
| 2017 | <ul style="list-style-type: none"> • Choi, K. (2017, October). <i>Young children's transfer of learning from interactive and non-interactive media</i>, Talk presented at Cognitive Brain and Behavior Brownbag, Department of Psychology, Rutgers University - Newark. |
| 2013 | <ul style="list-style-type: none"> • Choi, K. (2013, May). <i>The influence of media on children's development</i>, Talk presented at Scholarly SoHE, School of Human Ecology, UW-Madison. • Choi, K. (2013, May). <i>Object retrieval using contingent vs. non-contingent video on touchscreens</i>, Poster presented at the Wisconsin Alumni Research Foundation Discovery Challenge, UW-Madison. • Choi, K. (2013, April). <i>The role of individual differences in cognitive skills in children's learning through educational media</i>, Poster presented at the School of Human Ecology Student Poster & Project Exhibition, UW-Madison. • Choi, K. (2013, February). <i>The impact of background television and parent-child interaction on young children's toy play</i>, Talk presented at Professional Development Seminar in Human Development & Family Studies, UW-Madison. |
| 2012 | <ul style="list-style-type: none"> • Choi, K. (2012, May). <i>Children's learning from touchscreens: Object retrieval using interactive vs. non-interactive Video</i>, Poster presented at the Wisconsin Alumni Research Foundation Discovery Challenge, UW-Madison. • Choi, K. (2012, April). <i>Touchscreens and early childhood mathematics</i>, Poster presented at the School of Human Ecology Student Poster & Project Exhibition, UW-Madison. • Choi, K. (2012, April). <i>NSF research grant proposal - Children's learning from touchscreens: Object retrieval using interactive vs. non-interactive video</i>, Talk presented at Professional Development Seminar in Human Development & Family Studies, UW-Madison. |

TEACHING

Lead Instructor

- | | |
|---|--------------------|
| • HD 4994 (CRN: 15950) - Undergraduate Research: Children & Technology
5 undergraduate students, 5 volunteers | Spring 2021 |
| • HD 1004 (CRN: 85528) - Human Development I: Conception to Adolescence
74 undergraduate students | Fall 2020 |
| • HD 4994 (CRN: 92606) - Undergraduate Research: Children & Technology
3 undergraduate students, 7 volunteers | Fall 2020 |
| • HD 3014 (CRN: 19961) - Research Methods in Human Development
47 undergraduate students | Spring 2020 |
| • HD 4994 (CRN: 21521) - Undergraduate Research: Children & Technology
10 undergraduate students, 5 volunteers | Spring 2020 |
| • HD 1004 (CRN: 15429) - Human Development I: Conception to Adolescence
77 undergraduate students | Spring 2020 |
| • HD 5514 (CRN: 85161) - Research Methods
8 graduate students | Fall 2019 |

- HD 4994 (CRN: 91019, 91544) - Undergraduate Research: Children & Technology **Fall 2019**
10 undergraduate students, 4 volunteers
- HD 1004 (CRN: 85117) - Human Development I: Conception to Adolescence **Fall 2019**
122 undergraduate students
- HD 4994 (CRN: 19013) - Undergraduate Research: Children & Technology **Spring 2019**
2 undergraduate students, 1 volunteer
- HD 1004 (CRN: 15080) - Human Development I: Conception to Adolescence **Spring 2019**
57 undergraduate students
- HD 1004 (CRN: 84910) - Human Development I: Conception to Adolescence **Fall 2018**
77 undergraduate students (Virtual)

Research Supervisor

- 21:830:491 - Section 19: Research in Psychology **Fall 2017 - Spring 2018**
Rutgers University - Newark (Instructor: Dr. Elizabeth Bonawitz)
Supervised 2-4 undergraduate research assistants per semester
- PSYC 182E - 001: Laboratory in Psychology (Developmental) **Fall 2016 - Spring 2017**
University of California, Riverside (Instructor: Dr. Rebekah Richert)
Supervised 3-9 undergraduate research assistants per quarter
- HDFS 592: Research Experience in HDFS **Fall 2012 - Spring 2016**
University of Wisconsin-Madison (Instructor: Dr. Heather Kirkorian)
Supervised 3-8 undergraduate students per semester

Guest Instructor

- HD 5224: Child Development in the Family Context **Spring 2021**
Virginia Tech (Instructor: Dr. Caroline Hornburg)
Cognitive Development: Attention, Media/Technology (5/3/21)
- HDFS Graduate Student Anti-Racism Book Club **Spring 2021**
Virginia Tech (Organizer: Jessica Resor)
White Logic, White Methods, Part VI: The Practice of Racial Research and Conclusion (4/15/21)
- HD 6004: Prof Development Seminar **Spring 2020**
Virginia Tech (Instructor: Dr. Cynthia Smith)
Types of Conference Presentations (3/6/20)
- HD 1004: Human Development I **Spring 2020**
Virginia Tech (Instructor: Dr. Kee Jeong Kim)
Ethology and Ecology (2/3/19; 2/5/19)
- Comm 5494: Media, Tech, Society: Media and Youth **Fall 2019**
Virginia Tech (Instructor: Dr. Adrienne Ivory)
Children's learning from non-interactive and interactive media (10/8/19)
- HD 5974: Teaching Seminar **Fall 2019**
Virginia Tech (Instructor: Ms. Victoria Lael)
Faculty panel on perspectives on teaching for graduate student instructors of record (8/27/19)
- HD 6004: Prof Development Seminar **Spring 2019**
Virginia Tech (Instructor: Dr. Cynthia Smith)
Job searching in academia and submitting articles to journals (4/12/19)
- HDFS 425: Research Methods in Human Development and Family Studies **Fall 2015**
University of Wisconsin-Madison (Instructor: Dr. Janean Dilworth-Bart)
Experimental designs in research
- HDFS 469: Family and Community Influences on the Young Child **Fall 2015**
University of Wisconsin-Madison (Instructor: Ms. Lauren Lewis)
The influence of background TV on children's play and parent-child interaction
- HDFS 474: Racial Ethnic Families in U.S **Fall 2015**
University of Wisconsin-Madison (Instructor: Dr. Lynet Uttal)
The influence of media on children's racial attitude and behaviors
- HDFS 616: Mass Media and Youth **Fall 2015**

	University of Wisconsin-Madison (Instructor: Dr. Heather Kirkorian) Transfer of learning and Interactive Media	
	<ul style="list-style-type: none"> • HDFS 474: Racial Ethnic Families in U.S. (002) 	Fall 2015
	University of Wisconsin-Madison (Instructor: Ms. Lauren Lewis) Children, Race, Ethnicity, and Media	
ADVISEES AND TRAINEES	<u>Graduate Student (1)</u> <ul style="list-style-type: none"> • Jisun Kim, Ph.D. Student, 8/17/2020-present 	
	<u>Committee Member - Current (5)</u> <ul style="list-style-type: none"> • Jessica Resor, Ph.D., Human Development and Family Science • Diana Devine, Ph.D., Human Development and Family Science • Caroline Taylor, M.S./Ph.D., Psychology • Shuqi Yu, M.S./Ph.D., Human Development and Family Science • Candy Beers, Ph.D., Human Development and Family Science 	
	<u>Graduate Research Assistants at Virginia Tech</u> <ul style="list-style-type: none"> • Eunkyung Lucy Shin 8/13/2018-5/2020; Hired into postdoctoral research associate position at Fralin Biomedical Research Institute at Virginia Tech Carilion School of Medicine (VTC) • Jessica Resor 8/26/2019-5/2020 • Jisun Kim 8/17/2020-present 	
	<u>Graduate Teaching Assistants at Virginia Tech</u> <ul style="list-style-type: none"> • Shawnice Johnson 8/26/2019-12/20/2019 • Candy Beers 8/17/2020-12/18/2020 	
	<u>Undergraduate Research Assistants at Virginia Tech</u> <ul style="list-style-type: none"> • Ashleigh Bedwell, 1/22/2019-5/17/2019 • Rachel Metts, 8/12/2019-8/23/2019 • Bethany Grocock, Katie Johnson, 1/22/2019-5/14/2021 • Sara Belay, 6/1/2019-5/2020 • Rhea Bhatia, 8/26/2019-5/2020 • Eva Catherine Grumbine, Valerie Salmon, 8/26/2019-5/2020 • Ally Copeland, 8/26/2019-12/18/2020 • Molly Simek, Caroline Kammer, 1/21/2020-12/28/2020 • Anvitha Metpally, Eman Ayaz, 8/26/2019-5/14/2021 • Ava Bir, Breanne De Vera, Michelle Tran, Taylor Covington, 8/26/2019-Present • Martha Drapac, Jordan Teel, 1/18/2021-Present • Julia Ricci, 5/24/2021-Present • Yullie Kwak, Naheda Nassan, 1/18/2021-Present 	
	<u>Undergraduate Honors Credit at Virginia Tech</u> <ul style="list-style-type: none"> • Martha Drapac, 8/24/2020-12/20/2020 	
	<u>Undergraduate Advising at Virginia Tech</u> <ul style="list-style-type: none"> • 14 students in Childhood Pre-Education (CPED) Major 	Spring 2021-Present
EDITORIAL ACTIVITIES	<u>Editorial Board</u> <ul style="list-style-type: none"> • Media Psychology • Korean Journal of the Society for Cognitive Enhancement and Intervention 	2/12/2021 - Present 3/1/2019 - Present
	<u>Ad-Hoc Journal Reviewer</u>	

- British Journal of Developmental Psychology (3), British Journal of Educational Technology (1), Child Development (9), Developmental Science (1), Education Sciences (1), European Journal of Psychology of Education (1), Frontiers in Psychology (1), Human Behavior and Emerging Technologies (1), Infancy (1), Infant Behavior and Development (2), Infant Child Development (2), International Journal of Behavioral Development (1), Journal of Applied Developmental Psychology (2), Journal of Children and Media (4), Journal of Cognition and Development (1), Journal of Experimental Child Psychology (6), Korean Journal of Cognitive Enhancement and Intervention (1), Media Psychology (3), PLOS ONE (2), Scientific Reports (1), Computers and Education (1).
- Number of reviewed papers: 2021 (10), 2020 (13), 2019 (10), 2018 (5), 2017 (4), 2016 (1), 2015 (1), 2014 (1)

Conference Submission Reviewer

- Reviewer for the 2021 Annual American Psychological Association (APA) Conference on Technology, Mind, and Society **2021**
- Reviewer for the 2021 Biennial Meeting of the Society for Research in Child Development (Mentor) **2020**
- Reviewer for the 2020 Special Topics Meeting of the Society for Research in Child Development, Learning through Play and Imagination **2019**
- Reviewer for the 2019 Biennial Meeting of the Society for Research in Child Development **2018**
- Reviewer for the 2018 Technology, Mind and Society Conference of the American Psychological Association **2017**
- Reviewer for Doctoral Consortium at the 2016 Special Topics Meeting of the Society for Research in Child Development **2016**
- Student Reviewer for the 2016 Special Topics Meeting of the Society for Research in Child Development, Technology and Media in Children's Development (Mentor: Dr. Kaveri Subrahmanyam) **2016**
- Student Reviewer for the 2013 Biennial Meeting of the Society for Research in Child Development, Panel 26: Contexts of Child Development: Family, Neighborhood, Child Care, Media, & Religious Institutions (Mentor: Dr. Heather Kirkorian) **2012**

SERVICE TO THE PROFESSION

Conference Symposium Organizer and Chair

- Chair, *Temperament and Technology Symposium* **2020**
2020 Occasional Temperament Conference, Blacksburg, VA (November 2)
- Co-Organizer, *Digital Media and Cognitive Development* **2019**
2019 Cognitive Development Society Pre-conference Workshop, Louisville, KY (October 17)
- Chair, *Direct and Indirect Learning from Digital Media Panel* **2019**
2019 Cognitive Development Society Pre-conference Workshop, Louisville, KY (October 17)
- Co-Organizer, *Digital Media and Cognitive Development* **2017**
2017 Cognitive Development Society Pre-conference Workshop, Portland, OR.
- Chair, *Understanding children's learning from interactive touchscreens* **2016**
Symposium presented at the 2016 Special Topics Meeting on Technology and Media in Children's Development of the Society for Research in Child Development, Irvine, CA.

Academic Community

- Regional Representative (Southeast) for the Korean American Early Childhood Researchers Association (KAE CRA) **4/11/2021 - present**
- Mentor for the Asian Caucus Mentoring session at the 2021 Biennial Meeting of the Society for Research in Child Development **4/9/2021**
- Member of the Board of Directors, Korean Association of Child Studies **2020 - 2021**
- Member of the Board of Directors, Korean Psychological Association, Developmental Psychology Division **2019 - 2021**

- Student representative to the Interdisciplinary Committee on the Student and Early Career Council (SECC) in Society for Research in Child Development (SRCD) **2013 - 2017**

SERVICE TO THE
UNIVERSITY

Virginia Tech

- Advisory Board Member, The Office of Undergraduate Research (OUR), Virginia Tech **6/9/2021 - Present**

College of Liberal Arts and Human Sciences at Virginia Tech

- Department Representative, College of Liberal Arts and Human Sciences Library Committee, Virginia Tech **8/1/2018 - Present**

Department of Human Development and Family Science at Virginia Tech

- Child and Adolescent Development Area Coordinator, Virginia Tech **3/15/2021 - present**
- Faculty Search Committee Member - Faculty Search Committee (HDFS; Marriage and Family Therapy), Virginia Tech **9/13/2019 - 3/5/2020**
- Faculty Search Committee Member (Diversity Advocate) - Faculty Search Committee (HDFS; Child and Adolescent Development), Virginia Tech **12/1/2018 - 4/30/2019**

School of Human Ecology at UW-Madison

- School of Human Ecology (SoHE) Early Childhood Task Force Focus Group, University of Wisconsin-Madison **10/1/2015 - 10/31/2015**
- Department Representative - School of Human Ecology Colloquium Committee, University of Wisconsin-Madison **9/1/2012 - 8/31/2013**

Human Development and Family Studies Department at UW-Madison

- Professional Development Chair - Human Development & Family Studies Graduate Student Organization (GSO), University of Wisconsin-Madison **5/1/2012 - 9/30/2013**
- Member – Human Development & Family Studies Graduate Student Organization Graduate Student Organization (GSO), University of Wisconsin-Madison **9/1/2011 - 5/31/2012**

SERVICE TO THE
COMMUNITY

Invited Community Workshops and Presentations

- *Screen time for children: Guidance for parents*, Presentation (with Resor, J.) at the Virginia Tech Parent Teacher Association Meeting, Blacksburg, VA **2/7/2020**
 - *Children and screens: New media and new guidance for parents*, Co-presentation at the webcast for the UW Extension Family Living Program, Madison, WI **3/3/2016**
 - *The impact of technology on learning and development*, Wisconsin Early Childhood Association Annual Meeting, Madison, WI **7/21/2015**
 - *Helping young children learn and grow seminar*, Keynote at the 2014 Wisconsin 4-H & Youth Conference, Madison, WI **6/25/2014**
 - *The importance of research on children's learning from touchscreens*, Presentation at the UW Campus-Affiliated Preschool Director Meeting, Madison, WI **8/15/2012**
- Students

Outreach Project Organizer

- *Do you know what I'm looking at? Tracking eye movements during math games*. Eye-tracking technology Zoom outreach meetings at the Virginia Tech Science Festival (Virtual), Blacksburg, VA **9/29, 10/1, 10/6/2020**
- *Are you still watching? Using eye-tracking to understand learning from mobile media*. Institute for Creativity, Arts, and Technology (ICAT) Creativity + Innovation Day (Virtual), Blacksburg, VA **5/4/2020**
- *What are you looking at?* Eye-tracking technology station at the Virginia Tech Science Festival, Blacksburg, VA **11/19/2019**

- *Tracking your eye-movements*, Eye-tracking exploration station at the Wisconsin Science Festival, Madison, WI **2013, 2014**

Consultation

- *Consultation for a childcare plan during the science festival for Education and Outreach Manager*, Wisconsin Science Festival, Madison, WI **2013**

Media Contributions

- School's back, now what? How to navigate education on and offline during the global pandemic. Experts tips for parents newsletter on going back to school, *Children and Screens* **2020**

QUALIFICATIONS

- Korean National Technical Qualification Certificate, Survey Analyst, Junior, 2008
- Childcare Teacher Certification by Korean Ministry for Health, Welfare, & Family Affairs, 2008
- Microsoft Office Specialist, Master, 2007

ADDITIONAL TRAINING

- Data on the Mind Workshop at University of California, Berkeley (6/26/17 - 6/29/17)
- NIH Write Winning Grant Proposals workshop (6/3/13)
- Grants & Grant Writing Course (2013 Spring)
- DelTA Research Mentor Training Seminar (5/29/13 - 6/31/13)
- Positive Science Head-Mounted Eye-Tracker On-Site Training (9/28/12)
- EyeTracKids, Minneapolis 2012 Eye Tracking Methodology in Child and Infant Research: Tobii pre-conference eye-tracking course (6/6/12)

REFERENCES

References and additional information available upon request.