

Moira Rose Dillon

Department of Psychology
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Employment

New York University New York, NY
Assistant Professor, Department of Psychology, Faculty of Arts and Sciences (July 2017-present)

Concurrent Positions

New York University New York, NY
Faculty Affiliate, Institute of Human Development and Social Change, Steinhardt School of Culture, Education, and Human Development (May 2019-present)

Massachusetts Institute of Technology Cambridge, MA
Invited Researcher, Abdul Latif Jameel Poverty Action Lab (J-PAL), Foundations of Learning (April 2021-present)

Education

Harvard University Cambridge, MA (August 2011-May 2017)
Ph.D., Psychology (May 2017)
A.M., Psychology (May 2014)

Yale University New Haven, CT (August 2004-May 2008)
B.A., Cognitive Science; Art (May 2008)

Funding

External

2019-2024 **National Science Foundation** (PI: \$1,718,437)
CAREER: Becoming Euclid: Characterizing the geometric intuitions that support formal learning in mathematics
2023 **Supplement** (PI: \$62,291)
CLB: Career-Life Balance Faculty Early Career Development Program
2020 **Supplement** (PI: \$24,671)
CLB: Career-Life Balance Faculty Early Career Development Program

2019-2024 **DARPA** (Co-PI, Total: \$1,703,553; To Dillon: \$871,874)
Co-PI: Brenden Lake
Cognitive milestones for machine common sense

2019-2021 **Jacobs Foundation** (PI: 150,000 CHF)
Early Career Research Fellowship

Internal

2024 **Research Development Office at NYU, Mega-Grants Initiative** (PI: \$20,000)
Commonsense knowledge in human infants and machines

2018-2019 **Institute of Human Development and Social Change at NYU** (PI: \$14,848)
The arc of geometric development

Fellowships & Awards

- 2019-2024 National Science Foundation, Early Career Award (CAREER)
2022 Society for Experimental Psychology and Cognitive Science (American Psychological Association, Division 3), Early Career Contribution Award
2021 Association for Psychological Science, Rising Star
2019-2021 Jacobs Foundation, Early Career Research Fellowship
2018 Deutscher Akademischer Austauschdienst, German Academic Exchange Service language scholarship for early career academics
2012-2017 National Science Foundation, Graduate Research Fellowship (GRFP)
2017 Society for Research in Child Development, Student Travel Award
2014; 2016 Latin American School for Education, Cognitive and Neural Sciences Fellowship, Punta del Este, Uruguay; Buenos Aires, Argentina
2015-2016 Dissertation Completion Fellowship, Harvard University
2015-2016 Norman Henry Anderson Graduate Psychology Fund, Harvard University
2015; 2016 George W. Goethals Teaching Award, Harvard University
2015 Bok Certificate of Excellence and Distinction in Teaching, Harvard University
2015 National Science Foundation, Science and Technology Center Professional Development Workshop Fellowship
2014-2015 National Science Foundation, Graduate Research Opportunities Worldwide (GROW) Fellowship
2014 Allport Fund Restricted Funds Grant, Harvard University
2012; 2014 Mind, Brain, and Behavior Research Award, Harvard University
2012 The CogEvo Workshop on Cognition and Evolution, Poster Award

Research Collaborations

- 2022-present CRADLE (Collaboration for Reproducible and Distributed Large-Scale Experiments), UT Dallas, Dallas, TX
2017-present National Museum of Mathematics, New York, NY
2017-present Lookit: The Online Child Lab, MIT, Cambridge, MA

Publications

(visit <https://www.labdevelopingmind.com/publications> for downloadable copies)

Dillon, M. R. & Izard, V. (invited). Infant perception of shape. In S. Johnson (Ed.), *Handbook of Perceptual Development*. Oxford University Press.

Lin, Y. & **Dillon, M. R.** (invited revision). Seeing the forest but naming the trees: An object-over-place bias in learning noun labels. doi:10.31234/osf.io/vna3d

Li, W., Yasuda, S., **Dillon, M. R.**, & Lake, B. M. (accepted). An infant-cognition inspired machine benchmark for identifying agency, affiliation, belief, and intention. *Proceedings of the 46th Annual Conference of the Cognitive Science Society*. <https://doi.org/10.31234/osf.io/zf5nh>

Dillon, M. R. Divisive language. (in press). *Behavioral and Brain Sciences*. doi:10.1017/S0140525X23003047

Dillon, M. R. & Lawrence, C. R. (2023). Common content, philosophy, and programming support thriving collaborations between cognitive science labs and museums. *Mind, Brain, and Education*. doi:10.1111/mbe.12397

Lin, Y. & **Dillon, M. R.** (2023). We Are Wanderers: Abstract geometry reflects spatial navigation. *Journal of Experimental Psychology: General*. doi:10.1037/xge0001504

- Lin, Y. & **Dillon, M. R.** (2023). Adults and young children extend novel nouns to objects not places. *Proceedings of the 45th Annual Conference of the Cognitive Science Society*.
<https://escholarship.org/uc/item/96d2t31m>
- Stojnić, G., Gandhi, K., Yasuda, S., Lake, B. M., & **Dillon, M. R.** (2023). Commonsense psychology in human infants and machines. *Cognition*, 235, 105406.
 doi:10.1016/j.cognition.2023.105406
- Huey, H.*, Jordan, M.*, Hart, Y., & **Dillon, M. R.** (2023). Mind-Bending Geometry: Children's and adults' intuitions about linearity on spheres. *Developmental Psychology*.
 doi:10.31234/osf.io/d4bgc [*Indicates shared authorship]
- Bochynska, A. & **Dillon, M. R.** (2022). Young children's drawings and descriptions of layouts and objects. *Proceedings of the 44th Annual Conference of the Cognitive Science Society*.
<https://escholarship.org/uc/item/12k0161z>
- Hart, Y., Mahadevan, L. & **Dillon, M. R.** (2022). Euclid's Random Walk: Developmental changes in the use of simulation for geometric reasoning. *Cognitive Science*, 46, e13070.
 doi:10.1111/cogs.13070
- Bochynska, A. & **Dillon, M. R.** (2021). Bringing Home Baby Euclid: Testing infants' basic shape discrimination online. *Frontiers in Psychology*, 20, 6002. [Special Issue: *Empirical Research at a Distance: New Methods for Developmental Science*]. doi:10.3389/fpsyg.2021.734592
- Gandhi, K., Stojnić, G., Lake, B. M. & **Dillon, M. R.** (2021). Baby Intuitions Benchmark (BIB): Discerning the goals, preferences, and actions of others. *Advances in Neural Information Processing Systems*, 34. <https://doi.org/10.48550/arXiv.2102.11938>
- Dillon, M. R.** (2021). Rooms without Walls: Young children draw objects but not layouts. *Journal of Experimental Psychology: General*, 150(6) 1071-1080. doi:10.1037/xge0000984
- Morfoisse, T., Gureckis, T., & **Dillon M. R.** (2020) Pictorial depth cues in young children's drawings of layouts and objects. *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*. <https://cogsci.mindmodeling.org/2020/papers/0573>
- Dillon, M. R.**, Izard, V., & Spelke, E. S. (2020). Infants' sensitivity to shape changes in 2D visual forms. *Infancy*, 25(5), 618-639. doi.org/10.1111/infa.12343
- Dillon, M. R.***, Duyuk, M.*, Amalric, M., Dehaene, S., & Izard, V. (2019). Geometric categories in cognition. *Journal of Experimental Psychology: Human Perception and Performance*, 45(9), 1236-1247. doi:10.1037/xhp0000663 [*Indicates shared authorship]
- Hart, Y., **Dillon, M. R.**, Marantan, A., Cardenas, A., Spelke, E. S., & Mahadevan, L. (2018). The statistical shape of geometric reasoning. *Scientific Reports*, 8, 12906. doi:10.1038/s41598-018-30314-y
- Dillon, M. R.** & Spelke, E. S. (2018). From map reading to geometric intuitions. *Developmental Psychology*, 54(7), 1304-1316. doi:10.1037/dev0000509
- Dillon, M. R.***, Persichetti, A. S.*, Spelke, E. S., & Dilks, D. D. (2018). Places in the Brain: Bridging layout and object geometry in scene-selective cortex. *Cerebral Cortex*, 28(7), 2365-2374. doi:10.1093/cercor/bhx139 [*Indicates shared authorship]

Dillon, M. R., Kannan, H., Dean, J. T., Spelke, E. S. & Duflo, E. (2017). Cognitive Science in the Field: A preschool intervention durably enhances intuitive but not formal mathematics. *Science*, 357(6346), 47-55. doi:10.1126/science.aal4724

Dillon, M. R., & Spelke, E. S. (2017). Young children's use of surface and object information in drawings of everyday scenes. *Child Development*, 88(5), 1701-1715. doi:10.1111/cdev.12658

Dillon, M. R., Pires, A. C., Hyde, D. C., & Spelke, E. S. (2015). Children's expectations about training the approximate number system. *British Journal of Developmental Psychology*, 33(4), 411-418. doi:10.1111/bjdp.12118

Dillon, M. R. & Spelke, E. S. (2015). Core geometry in perspective. *Developmental Science*, 18(6), 894-908. doi:10.1111/desc.12266

Dillon, M. R., Huang, Y., & Spelke, E. S. (2013). Core foundations of abstract geometry. *Proceedings of the National Academy of Sciences of the United States of America*, 110(35), 14191-14195. doi:10.1073/pnas.131264011

Yoshioka, T., **Dillon, M. R.**, Beck, G. C., Rapp, B., & Landau, B. (2013). Tactile localization on digits and hand: Structure and development. *Psychological Science*, 24(8), 1-11. doi:10.1177/095679761347861

Reilly, B. J. & **Dillon, M. R.** (2013). Virtuous circles of authorship attribution through quantitative analysis: Chrétien de Troyes's Lancelot. *Digital Philology*, 2(1), 60-85. doi:10.1353/dph.2013.0001

Invited Talks

University of California, Irvine (2024, May). *TBA*. Brown Bag Seminar for the School of Education. [Virtual]

New York City Independent Schools (2024, May). **Keynote:** *Exercising Our Core and Letting Artificial Intelligence Do the Heavy Lifting*. New York, NY.

Cognitive Development Society (2024, March). *Building Blocks of Moral AI*. Instead of trying to produce a program to simulate the adult mind, why not rather try to produce one which simulates the child's? Pasadena, CA.* [*Virtual]

University of California, Berkeley (2024, February). *We Are Wanderers: Abstract geometry reflects spatial navigation*. School of Education, "Embodied Underground" Reading Group. [Virtual]

Trinity College Dublin (2024, January). *Abstract thought, two ways: The cognitive foundations of human flourishing*. Representation: Past, Present and Future. [Virtual]

Yale University (2023, November). *Abstract thought, two ways: The cognitive foundations of human flourishing*. Department of Psychology, Cognitive Current Works. New Haven, CT.

Cognitive Science Society (2023, July). *Panelist*. Preconference Workshop, Advancing Cognitive Science and AI with Cognitive-AI Benchmarking. Sydney, AU.* [*Virtual]

Center for Neuroscience Imaging Research (2023, July). *Abstract thought, two ways: The development of natural intelligence*. Mechanistic perspectives on natural intelligence shaped by evolution, development, and brain organizational principles. Suwon, KR.* [*Virtual]

Columbia University (2023, February). *Abstract thought, two ways: The cognitive foundations of human flourishing*. Columbia Psychology Departmental Seminar Series. New York, NY.

European Conference on Computer Vision (2022, October). *Infant common sense about people, objects, and places*. Workshop on Machine Visual Common Sense: Perception; Prediction; Planning. Tel Aviv, IL.* [*Virtual]

Boston College (2022, September). *The origins and development of human common sense about people, objects, and places*. Social and Cognitive Computational Neuroscience Lab Meeting. [Virtual]

Stanford University (2022, September). *The origins and development of human common sense about people, objects, and places*. Causality in Cognition Lab Meeting. [Virtual]

Cognitive Computational Neuroscience (2022, August). **Keynote, Drivers of learning across timescales: evolutionary; developmental; & computational perspectives:** *Infant common sense about people, objects, and places*. San Francisco, CA.

Cognitive Science Society (2022, July). *Images2Symbols: Developmental Science Seminar*. Preconference Workshop, From Images to Symbols: Drawing as a Window into the Mind. Toronto, ON, CA.* [*Virtual]

Dartmouth College (2022, June). *Comparing infant and machine social intelligence*. Consortium for Interacting Minds, Department of Psychological and Brain Sciences. Hanover, NH.

Society for Multidisciplinary and Fundamental Research (2022, May). **Plenary:** *Navigating the origins of art*. Spacious Spatiality. [Virtual]

Cognitive Development Society (2022, April). *Online data collection's potential to facilitate big team science*. Preconference Workshop, Big Team Science for Studying Small People. Madison, WI.* [*Virtual]

CUNY Graduate Center (2022, April). *People, Places, and Things: The origins and development of human commonsense knowledge*. Cognitive & Comparative Psychology Doctoral Program's Colloquium. [Virtual]

New York University (2021, September). *Cognitive Science in the Field*. Psychology and Social Intervention Colloquium at the Steinhardt School of Culture, Education, and Human Development. New York, NY.

Institutt for Spesialpedagogikk Research Seminar (2021, June). *Online data collection with infants and children*. University of Oslo. Oslo, NO.*† [*Virtual; †Presented by A. Bochynska]

Abdul Latif Jameel Poverty Action Lab (J-PAL) (2021, June). *Cognitive Science in the Museum: Common content, philosophy, and programming support collaborations between cognitive science labs and museums*. Foundations of Learning Webinar. [Virtual]

Abdul Latif Jameel Poverty Action Lab (J-PAL) (2021, June). *Cognitive Science in the Field: Bringing the lab to life in Indian preschools*. Foundations of Learning Webinar. [Virtual]

Massachusetts Institute of Technology (2021, February). *Sight Un-scene: Everyday geometry and symbolic production*. Saxe Lab Meeting. Cambridge, MA.* [*Virtual]

National Science Foundation (2020, November). *Becoming Euclid: Characterizing the geometric intuitions that support formal learning in mathematics*. EHR Core Research Principal Investigators Meeting, Meeting the Moment: The Future of STEM Education Research in an Age of Transformation. [Virtual]

Harvard University (2020, August). *Navigating the Origins of Art: Why children draw rooms without walls*. Lab for Developmental Studies Seminar Series. Cambridge, MA.* [*Virtual]

International Conference on Machine Learning (ICML) (2020, July). *Object-oriented drawing*. Workshop on Object-Oriented Learning (OOL): Perception, Representation, and Reasoning. Vienna, Austria.* [*Virtual]

Cognitive Science Society (2020, July) *Cognitive Artificial Intelligence: Building better machines... and babies!*. Workshop on the Origins of Common Sense in Humans and Machines. Toronto, ON, CA.* [*Virtual]

Keele University (2020, July). *Online Labs: under development*. Children and Young People's Research Network at Keele University - Online Research Methods Webinar. [Virtual]

International Congress of Infant Studies (2020, April). *Shaping an online lab*. Webinar - Online data collection: Stories of success and challenge in transitioning from lab-based to online research. [Virtual]

DARPA (2020, January). *How do developmental scientists learn what infants know about objects?*. Machine Common Sense, Principal Investigators Meeting. [Virtual]

CUNY Graduate Center (2019, October). *Baby Euclid's first steps*. Developmental Psychology Brown Bag. New York, NY.

DARPA (2019, June). *CogSim: An intuitive physics simulator for training and evaluating cognitive AI agents*. Machine Common Sense, Kickoff Meeting. Arlington, VA.

New York University (2019, June). *Randomly walking with Euclid*. 3rd Annual New York University Computational Neuroscience Symposium. New York, NY.

Rutgers University – Newark (2019, May). *Cognitive Science in the Field: Bringing the lab to life in Indian preschools*. Play and Learning Conference. Newark, NJ.

Harvard University (2019, April). *Euclid's Random Walk: Simulation as a tool for geometric reasoning through development*. Center of Mathematical Sciences and Applications Workshop on Invariance and Geometry in Sensation, Action and Cognition. Cambridge, MA.

Yale University (2018, November). *Getting to the point of abstract thought*. Department of Psychology, Developmental Current Works. New Haven, CT.

University of Pennsylvania (2018, January). *Propositioning Euclid in The Quad: From shapes in the world to shapes in the mind*. Interdisciplinary Mind and Brain Seminar. Philadelphia, PA.

American Academy of Arts and Sciences (2015, January). *Sources of geometric concepts and intuitions*. Annual Meeting of the Mind, Brain, Behavior Initiative. Cambridge, MA.

Peer-Reviewed Talks

Lin., Y & **Dillon, M. R.** (2023, May). *Young children extend novel nouns to objects not layouts*. Association for Psychological Society Annual Convention, Washington, D.C.

Srinivasan, A., **Dillon, M. R.**, & Spelke, E. S. (2023, March). *Improving children's mathematical skills using home-based games*. The Biennial Meeting of the Society for Research in Child Development, Salt Lake City, UT.

Dillon, M. R., Stojnić, G., Yasuda, S., Gandhi, K., & Lake, B. M. (2023, January). *Using a machine learning benchmark to test infant commonsense psychology*. The 13th Annual Budapest CEU Conference on Cognitive Development, Budapest, Hungary.

Huey, H., Jordan, M., Hart, Y., & **Dillon, M. R.** (2022, July). *Children's and adults' intuitions about spherical geometry*. The 44th Annual Conference of the Cognitive Science Society, Toronto, ON, CA.

Stojnić, G., Yasuda, S., Gandhi, K., Lake, B. M., & **Dillon, M. R.** (2022, July). *Evaluating infants' reasoning about agents using the Baby Intuitions Benchmark (BIB)*. The XXIII International Congress of Infant Studies Biennial Meeting, Ottawa, ON, CA.

Bochynska, A., Scott, K., & **Dillon, M. R.** (2021, April). *Bringing Home Baby Euclid: Evaluating infants' basic shape discrimination using the online platform Lookit*. The Biennial Meeting of the Society for Research in Child Development, Minneapolis, MN.* [*Virtual]

Bochynska, A. & **Dillon, M. R.** (2021, April). *Young children's spatial communication in drawings and language*. The Biennial Meeting of the Society for Research in Child Development, Minneapolis, MN.* [*Virtual]

Bochynska, A. & **Dillon, M. R.** (2021, January). *Young children's spatial communication in drawings and language*. The 11th Annual Budapest CEU Conference on Cognitive Development, Budapest, Hungary.* [*Virtual]

Dillon, M. R.* & Lawrence, C.* (2019, November). *Navigating Informal and Formal Mathematics: From the lab to the Tracks of Galileo*. Promising Math 2019: A Conference Linking Research and Practice, Chicago, IL. [*Co-Presenters]

Dillon, M. R. (2019, March). *Young children's differential treatment of objects and extended layouts in drawing production*. The Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Dillon, M. R.*, Scott, K., & Spelke, E. S. (2018, July). *Shaping an Online Lab: Investigating infants' shape detection on the Lookit platform*. The XXI International Congress of Infant Studies Biennial Meeting, Philadelphia, PA. [*Presented by C. Lew-Williams]

Dillon, M. R., Izard, V., & Spelke, E. S. (2017, April). *Infants' sensitivity to shape changes in 2D visual forms*. The Biennial Meeting of the Society for Research in Child Development, Austin, TX.

Dillon, M. R., Kannan, H., Dean, J. T., Spelke, E. S., & Duflo, E. (2016, September). *Making Learning Count: A large-scale randomized control trial testing the effects of core mathematical training on school readiness in young children*. The International Mind, Brain and Education Society, Toronto, ON, CA.

Dillon, M. R. & Spelke, E. S. (2015, March). *Reorientation ability predicts early spatial symbol reading*. The Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

Dillon, M. R. & Spelke, E. S. (2015, January). *Young children's automatic and alternating use of scene and object information in spatial symbols*. The 5th Annual Budapest CEU Conference on Cognitive Development, Budapest, Hungary.

Peer-Reviewed Posters

Li, W., Yasuda, S., **Dillon, M. R.** & Lake, B. (2024, July). *An infant-cognition inspired machine benchmark for identifying agency, affiliation, belief, and intention*. The 46th Annual Conference of the Cognitive Science Society, Rotterdam, NL.

Yasuda, S., Li, W., Lake, B. & **Dillon, M. R.** (2024, July). *15-month-old toddlers' understanding of imitative and instrumental actions*. The XXIV International Congress of Infant Studies Biennial Meeting, Glasgow, UK.

Mukherji, M. & **Dillon, M. R.** (2024, June). *Infant inferences from gaze underlie adult concepts of persons*. 50th Meeting of the Society of Philosophy and Psychology. Purdue University, West Lafayette, IN.

Lin, Y. & **Dillon M. R.** (2024, April). *Children's intuitions about abstract geometry relate to geometries used for navigation and object recognition*. The 2024 Annual Conference of the American Educational Research Association, Philadelphia, PA.

Lin, Y. & **Dillon M. R.** (2023, November). *Scene and Heard: Infants use shape and language to categorize places*. The 48th Annual Boston University Conference on Language Development, Boston, MA.

Lin, Y. & **Dillon M. R.** (2023, July). *Adults and young children extend novel nouns to objects not places*. The 45th Annual Conference of the Cognitive Science Society, Sydney, AU.* [*Virtual]

Yasuda, S., Li, W., Martinez, D., Lake, B., & **Dillon, M. R.** (2023, May). *Goal Attribution in Human Infants and Machines*. The Curiosity, Creativity, and Complexity Conference, New York, NY.

Srinivasan, A., **Dillon, M. R.**, & Spelke, E. S. (2023, January). *Improving children's mathematical skills using home-based games*. The 13th Annual Budapest CEU Conference on Cognitive Development, Budapest, Hungary.

Bochynska, A. & **Dillon M. R.** (2022, July). *Young children's drawings and descriptions of layouts and objects*. The 44th Annual Conference of the Cognitive Science Society, Toronto, ON, CA.* [*Virtual]

Mitnick, E., Morfousse, T., & **Dillon M. R.** (2022, April). *Learning to Draw Depth: Comparing adults' and children's drawings of layouts and objects*. The Biennial Meeting of Cognitive Development Society, Madison, WI.

Yasuda, S., Stojnić, G., Gandhi, K., Lake, B. M., **Dillon, M. R.** (2022, April). *Infants' understanding of agents' instrumental actions in grid-world environments*. The Biennial Meeting of Cognitive Development Society, Madison, WI.

- Lin, Y., Bochynska, A., Dilks, D., & **Dillon, M. R.** (2022, April). *Scene and Heard: Infants categorize scenes with language*. The Biennial Meeting of the Cognitive Development Society, Madison, WI.
- Gandhi, K., Stojnić, G., Lake, B. M., & **Dillon, M. R.** (2021, December). *Baby Intuitions Benchmark (BIB): Discerning the goals, preferences, and actions of others*. The 35th Conference on Neural Information Processing Systems. [Virtual]
- Stojnić, G., Gandhi, K., Lake, B. M., & **Dillon M. R.** (2021, July). *Evaluating infants' reasoning about agents using the Baby Intuitions Benchmark (BIB)*. The 43rd Annual Conference of the Cognitive Science Society, Vienna, AT.* [*Virtual]
- Gandhi, K., Stojnić, G., Lake, B. M., & **Dillon, M. R.** (2021, June). *Baby Intuitions Benchmark (BIB): Discerning the goals, preferences, and actions of others*. ICRA Workshop on Social Intelligence in Humans and Robots. [Virtual]
- Morfoisse, T., Gureckis, T., & **Dillon M. R.** (2020, July). *Pictorial depth cues in young children's drawings of layouts and objects*. The 42nd Annual Conference of the Cognitive Science Society, Toronto, ON, CA.* [*Virtual]
- Huey, H., Loncar, N., Jordan, M., & **Dillon, M. R.** (2019, March). *A Tale of Paths between Two Points: Children's identification of linearity on different geometric surfaces*. The Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Loncar, N. Huey, H., & **Dillon, M. R.** (2019, March). *Infants fail to categorize forms by kinds*. The Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.
- Jordan, M., Hart, Y., & **Dillon, M.R.** (2018, May). *Pathing Judgment on Planes and Spheres: Accurate intuitions about shortest paths*. The Vision Sciences Society Annual Meeting, St. Pete Beach, FL.
- Dillon, M. R.**, Izard, V., Spelke, E. S. (2017, April). *Young children's use of distance and angle information during map reading*. The Biennial Meeting of the Society for Research in Child Development, Austin, TX.
- Dillon, M. R.**, & Spelke, E.S. (2015, October). *From spatial symbols to Euclidean intuitions*. The Biennial Meeting of Cognitive Development Society, Columbus, OH.
- Dillon, M. R.**, Izard, V., & Spelke, E.S. (2015, October). *Infants' sensitivity to shape changes*. The Cognitive Development Society Pre-Conference on the Development of Spatial Thinking, Columbus, OH.
- Persichetti, A. S., **Dillon, M. R.**, Spelke E. S., & Dilks, D. D. (2015, May). *Differential representation of length and angle information across scene-selective cortex*. The Vision Sciences Society Annual Meeting, St. Pete Beach, FL.
- Dillon, M. R.**, Izard, V., Spelke, E. S. (2015, March). *Isolating angle in infants' detection of shape*. The Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.
- Dillon, M. R.**, Hyde, D., Spelke, E. S. (2014, April). *Functional and spatial dissociation in the brain systems encoding object shape and direction*. The 21st Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.

Dillon, M. R., Huang, Y., Spelke, E. S. (2012, June). *Children flexibly engage with symbolic representations of space*. The CogEvo Rovereto Workshop on Cognition and Evolution at the University of Trento, Rovereto, Italy.

Landau, B., Chen, M., **Dillon, M. R.**, Beck, G., Rapp, B., Yoshioka, T. (2010, November). *Tactile stimulus localization ability linked to genetic deletion in people with Williams syndrome*. The 40th Annual Meeting of the Society for Neuroscience, San Diego, CA.

General-Audience Publications

Dillon, M. R. (2023, September). *The cognitive origins of human abstract geometry*. Society for Industrial and Applied Mathematics (SIAM) News. <https://sinews.siam.org/Details-Page/the-cognitive-origins-of-human-abstract-geometry>

Dillon, M. R. (2023, January 3). *Careers up close: Moira R. Dillon on infants and children, humanlike AI, and commonsense psychology*. American Psychological Association. <https://www.psychologicalscience.org/observer/careers-up-close-moira-dillon>

Dillon, M. R. (2020, July 9). *Online labs: Under development*. Bold. <https://bold.expert/online-labs-under-development/>

Dillon, M. R. (2020). *Bringing STEM home*. On The Ground. <https://steinhardt.nyu.edu/ihdsc/on-the-ground/bringing-stem-home>

Dillon, M. R. (2019, September 24). *Cognitive artificial intelligence: Building better machines (and babies!)*. Bold. <https://bold.expert/cognitive-artificial-intelligence-building-better-machines-and-babies/>

Teaching

Professor Psychology PSYCH-GA 3404 Infant Intelligence, New York University (Fall 2024)

Professor Psychology PSYCH-UA 40 Lab in Developmental Psychology, New York University (Fall 2018; 2021; Spring 2018; 2020; 2022; 2023; 2024) (undergraduate methods course)

Guest Lecture Psychology PSYCH-UA 53 Psychological Science and Society, New York University (Spring 2019 [Professors Wei Ji Ma and Eric Knowles]; Fall 2019 [Professor Andrew Hilford]) (undergraduate methods course)

Professor Psychology PSYCH-GA 2209 Cognitive Development, New York University (Fall 2019) (doctoral core course; co-taught with Dr. Andrei Cimpian, New York University)

Professor Psychology PSYCH-UA 300 Abstract Thought: The Psychology and Philosophy of Geometry, New York University (Spring 2019) (undergraduate seminar; co-taught with Dr. Brian Reilly, Fordham University)

Professor Psychology GA 3405 Becoming Euclid: Connecting Core Cognition to Abstract Geometry, New York University (Fall 2017) (graduate seminar)

Instructor Psychology 980. Psychology, from Lab to Life: Harnessing Basic Science to Effect Change in Policy and Practice, Harvard University (Spring 2017) (undergraduate seminar)

Instructor Psychology 971. Sophomore Tutorial, Harvard University (Spring 2015; Fall 2016) (undergraduate seminar)

Head Teaching Fellow Psychology S1. Introduction to Psychology, Harvard University Summer School (Summer 2016), Professor Jason Mitchell (undergraduate lecture)

Teaching Fellow Psychology 1303. The Human Brain Then and Now, Harvard University (Spring 2014), Professor Randy Buckner (undergraduate seminar)

Teaching Fellow Psychology 1652r. Laboratory in Early Cognitive Development, Harvard University (Fall 2013), Professor Elizabeth Spelke (undergraduate methods course)

Advising

Postdoctoral Fellows

As Advisor:

Yi Lin, *Psychology, New York University* (Fall 2020-present)

Gala Stojnić, *Psychology, New York University* (Summer 2020-Fall 2021)

Agata Bochynska, *Psychology, New York University* (Summer 2019-Spring 2021)

Graduate Students

As Advisor:

Mohit Mukherji, *Doctoral Student, Psychology, New York University* (Fall 2022-present)

Shannon Yasuda, *Doctoral Student, Psychology, New York University* (Fall 2022-present),

National Defense Science and Engineering Graduate Fellowship – Honorable Mention (2023)

Katelin Maguire, *Doctoral Student, Psychology, New York University* (Fall 2018-Fall 2019)

As Committee Member:

Solim LeGris, *Doctoral Student, Psychology, New York University* (Fall 2023-present)

Aline-Priscilla Messi, *Doctoral Student, Psychology, New York University* (Fall 2022-present)

Sarah Hulsmann, *Masters Student, Psychology, New York University* (Spring 2021)

As Project Mentor:

Matthew Jordan, *Rhodes Scholar, Mathematics, Oxford University*, (Summer 2017)

Undergraduate Honors Thesis/Capstone Students

Kirsten Mark, *Psychology, New York University* (Summer 2023-present)

Savannah Prager, *Psychology, New York University* (Summer 2023-present)

Rida Saad, *Psychology, New York University* (Summer 2023-present)

Deisy Martinez, *Founding Generation Fellow, International Congress of Infant Studies* (Summer 2022)

Albina Zlenko, *Psychology, New York University - Shanghai* (Fall 2018-Spring 2020)

Simran Suresh, *Psychology, New York University* (Spring 2018-Spring 2019)

Olivia Miller, *Psychology, New York University* (Summer 2017-Spring 2019)

Divya Dayal, *Psychology, New York University* (Summer 2017-Spring 2018)

Reviewing

Grants (Panel)

National Science Foundation - CAREER proposals submitted to the Directorate of Education and Human Resources, Core Research (ECR)

National Science Foundation - proposals submitted to the Directorate of Education and Human Resources, Core Research (ECR)

National Science Foundation - proposals submitted to the Directorate of Social, Behavioral and Economic Sciences, Science of Learning and Augmented Intelligence (SL)

Grants (Ad-hoc)

Abdul Latif Jameel Poverty Action Lab (J-PAL) – Learning for All Initiative

Leverhulme Trust

National Science Foundation - proposals submitted to the Directorate of Advancing Informal STEM Learning (AISL); Developmental Sciences (DS); Education and Human Resources: Core Research (ECR)

Conferences/Societies (Committee)

Evaluation Beyond Metrics (EBeM); International Congress of Infant Studies; International Congress of Infant Studies – Founding Generation Fellowship

Conferences/Societies (Ad-hoc)

Budapest CEU Conference on Cognitive Development; Cognitive Science Society; Cognitive Development Society; IEEE International Conference on Development and Learning (ICDL); Society for Psychology and Philosophy; Society for Research in Child Development

Journals (Editor)

Child Development - Consulting Editor (Summer 2022-present)

Journals (Ad-hoc)

British Journal of Developmental Psychology; Child Development; Cognition; Cognitive Development; Cognitive Psychology; Developmental Cognitive Neuroscience; Developmental Psychology; Educational Psychology; Educational Psychology Review; Frontiers in Developmental Psychology, Infancy; International Journal of Early Years Education; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Experimental Child Psychology; Learning and Individual Differences; Memory & Cognition; PLOS ONE; Proceedings of the National Academy of Sciences; Psychological Science; Research in Developmental Disabilities; Scientific Reports

University Service

Committees

Department of Psychology, Nominations and Awards Committee (Fall 2022-present)
Department of Psychology, Doctoral Student Admissions, Diversity Committee (Summer 2022-present)
Global Coordinator (Fall 2019-present)
Department of Psychology, Search Committee: Junior Rank Position in the Cognitive Science of Language (Fall 2021)
Women In Science (WINS), Selection Committee (Summer 2021; 2023)
Department of Psychology, Education Policy Committee (Fall 2019-Spring 2021)
New York University - Abu Dhabi, Search Committee: Open Rank Position in Psychology (Fall 2018- Spring 2019)
Undergraduate Research Conference, Judge (Spring 2018; 2019)
Dean's Undergraduate Research Fellowship, Review Committee (Fall 2018; 2021; 2022; Spring 2019; 2022)

Presentations

NYU Seminar on Scientific Communication for Doctoral Students, Steinhardt School of Culture, Education, and Human Development (Fall 2023)
NYU Masters Program in Data Science, Center for Data Science (Fall 2022)
NYU Masters Program in Human Development, Research, and Policy, Department of Applied Psychology, Steinhardt School of Culture, Education, and Human Development (Fall 2022)
NYU Masters Program Doctoral Application Workshop, Department of Psychology, Faculty of Arts and Sciences (Fall 2021)
NYU Virtual Research Internship, Department of Psychology, Faculty of Arts and Sciences (Summer 2020; 2021; 2022; Fall 2021)
A Call for Conversation: Minds & Machines, Faculty of Arts and Sciences (Fall 2019)
Psychology Major Recruitment Event, Department of Psychology, Faculty of Arts and Sciences (Fall 2019)
The STEM You Don't Know, Opportunity Programs at New York University (Fall 2019)
Laying the Groundwork: Developing and piloting new partnered research, Institute for Human Development and Social Change, Steinhardt School of Culture, Education, and Human Development (Fall 2018)
Alumni Newsletter, Department of Psychology, Faculty of Arts and Sciences (Fall 2018)
Research Roundtable, Social Sciences: Exploring the value and inner workings of research projects at NYU, College of Arts and Sciences (Spring 2018)

Professional Affiliations

American Psychological Association (Division 3; Division 7); Association for Psychological Science; Cognitive Development Society; Cognitive Science Society; International Congress of Infant Studies; International Mind, Brain, and Education Society; Society for Research in Child Development

April 21, 2024