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Education

1962-1967	University of California, Berkeley.	B. A. in Physics, Honors.
1970-1974	University of California, San Diego.	Ph.D. in Psychology.

Positions

2007-present	Alice Gabrielle Twight Professor of Psychology, Co-Director of Spatial Intelligence and Learning Center
1990-2007	Professor of Psychology, Cognitive Science Program Director, Northwestern University
1989-1990	Professor of Psychology, University of Illinois at Urbana-Champaign.
1984-1989	Associate Professor of Psychology, University of Illinois at Urbana-Champaign.
1977-1984	Scientist, Bolt Beranek and Newman, Inc.
1974-1977	Assistant Professor of Psychology, University of Washington.
1968-1970	Teacher, Achimota Preparatory School, Achimota, Ghana.

Fellowships and Honors

2020	Norman Anderson Lifetime Achievement Award
2016	David E. Rumelhart Prize for Contributions to the Theoretical Foundations of Human Cognition
2016	American Psychological Association Award for Distinguished Scientific Contributions
2012	Alexander von Humboldt Foundation Research Award
2010	Journal of Cognition and Development's Editor's Choice Award
2006	Fellow, Rockefeller Institute, Bellagio, Italy
2010-	Fellow of the American Academy of Arts and Sciences
2010-	Charter Fellow, Midwestern Psychology Association
2004-	Fellow of the American Association for the Advancement of Science
2003-	Inaugural Fellow, Cognitive Science Society
1999-2000	Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA.
1999-	Society of Experimental Psychologists
1995-	Fellow of the American Psychological Association
1995-	Fellow of the Association for Psychological Science
1993-1994	President, Cognitive Science Society

Affiliations

American Academy of Arts and Sciences (Fellow); Association for Psychological Science (Fellow); American Psychological Society (Fellow); Brain and Behavioral Sciences Associate; Cognitive Development Society; Cognitive Science Society (Fellow); Psychonomics Society (Fellow); Society of Experimental Psychologists; Society for Research in Child Development

Service

2019-	Rumelhart Prize Selection Committee
2019-	Program Committee, <i>Experiments on Linguistic Meaning</i>
2018	Scientific Committee, <i>7th International Conference on Spatial Cognition</i>
2018	Program Committee, <i>Cognitive Science Society Annual Meeting</i>
2018	Program Committee, <i>Spatial Cognition Conference</i>
2017	Co-organizer, Fourth International Conference on Analogy, Paris, France
1992-2015	Director, Cognitive Science Program, Northwestern University
2015-	Cognitive Science Program Committee, Northwestern University
2015-	Governing Board of the Cognitive Science Society
2013-2016	Glushko Dissertation Prize Committee
2014-2016	AAAS Electoral Committee
2014-2016	American Academy of Arts & Sciences Ad Hoc Cognitive Science Committee
2014-2016	Cognitive Science Fellows Committee
2006-2012	Advisory Board for the Max Planck Institute for Psycholinguistics
1999-2005	Governing Board of the Cognitive Science Society
2001-2006	Associate Editor, <i>Cognitive Science</i>
1990-1992	Co-Founder of Cognitive Science Program at Northwestern University

Editorial Boards of *Cognitive Science*, *Language Learning and Development*, *Journal of the Learning Sciences*, *Journal of Experimental & Theoretical Artificial Intelligence*, *Open Mind* and *Metaphor and Symbol*; Ad hoc reviewer for approximately 30 journals.

Research Support

SILC: Spatial Intelligence and Learning Center (with Nora Newcombe, Susan Goldin-Meadow, Susan Levine, and Larry Hedges, 2011-2018), \$3,664,620

NSF: Investigating the origin and development of analogical processing. (with Sue Hespos, 2014 – 2018), \$272,867

NSF: The development of relational processing in infancy. (with Sue Hespos, 2014 – 2017), \$384,863

ONR: An analogical approach to autonomy and social inference (with Ken Forbus 2013-2018), \$1,909,139

IES: Exploring the spatial alignment hypothesis in STEM learning environments (with Bryan Matlen and Benjamin Jee, 2017-2021), \$358,043

Research Interests

Learning and reasoning; cognitive development; analogy, similarity and metaphor; language acquisition; language and cognition; conceptual representation.

Teaching

Cognitive Psychology, Cognitive Science, Cognitive Development, Language and Cognition, Learning and Reasoning, Analogy and Similarity

Publications and Papers

Books

Gentner, D., & Goldin-Meadow, S. (Eds.) (2003). *Language in mind: Advances in the study of language and thought*. Cambridge, MA: MIT Press.

Gentner, D., Holyoak, K. J., & Kokinov, B. N. (Eds.). (2001). *The analogical mind: Perspectives from cognitive science*. Cambridge, MA: MIT Press.

Gentner, D., & Stevens, A. L. (Eds.). (1983). *Mental models*. Hillsdale, NJ: Erlbaum.

Peer-Reviewed Journal Articles, Book Chapters, and Proceedings

Friedman, S. E., Lovett, A., McLure, M. Lockwood, K., Dehghani, M., Forbus, K. D., & Gentner, D. (in preparation). SAGE: A model of analogical generalization.

Goldwater, M. B., Sibley, D. Gentner, D., LaDue, N., & Libarkin, J. (under review). Expert-novice differences in causality-based knowledge organization.

Hoyos, C., Horton, W. S., & Gentner, D. (under review). Analogical comparison promotes theory-of-mind development.

Shao, R., & Gentner, D. (under review). Perceptual alignment contributes to referential transparency in indirect learning.

Hespos, S. J., Anderson, E., Gentner, D. (2020). Structure-mapping processes enable infants' learning across domains, including language. In J. Childers (Ed.) *Language and Concept Acquisition from Infancy Through Childhood: Learning from Multiple Exemplars* (pp.79 – 104). Springer International Publishing: Cham, Switzerland.

Jamrozik, A., & Gentner, D. (2020). Relational labeling unlocks inert knowledge. *Cognition*, 196, 104146.

Matlen, B. J., Gentner, D., & Franconeri, S. L. (2020). Spatial alignment facilitates visual comparison. *Journal of Experimental Psychology: Human Perception and Performance*, 46(5), 443-457.

Cooperrider, K., & Gentner, D. (2019). The career of measurement. *Cognition*, 191. <https://doi.org/10.1016/j.cognition.2019.04.011>

Edwards, B. J., Williams, J. J., Gentner, D., & Lombrozo, T. (2019). Explanation recruits comparison in a category-learning task. *Cognition*, 185, 21-38.

Forbus, K., Gentner, D., Laird, J., Shultz, T., Nobandegani, A. S., & Thagard, P. (2019). How Does Current AI Stack Up Against Human Intelligence? In A. K. Goel, C. M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 27-28). Montreal, QB: Cognitive Science Society.

Gentner, D. (2019). Cognitive science is and should be pluralistic. *Topics in Cognitive Science*, 11(4), 884-891.

Gentner, D., & Asmuth, J. (2019). Metaphoric extension, relational categories, and abstraction. *Language, Cognition and Neuroscience*, 34(10), 1298-1307.

King, D., & Gentner, D., (2019). Polysemy and verb mutability: differing processes of semantic adjustment for verbs and nouns. In A. K. Goel, C. M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st*

- Annual Conference of the Cognitive Science Society* (pp. 2011-2017). Montreal, QB: Cognitive Science Society.
- Shao, R., & Gentner, D., (2019). Symmetry: Low-level visual feature or abstract relation? In A. K. Goel, C. M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 2790-2796). Montreal, QB: Cognitive Science Society.
- Simms, N. K., & Gentner, D. (2019). Finding the middle: Spatial language and spatial reasoning. *Cognitive Development*, 50, 177-194.
- Anderson, E. M., Chang, Y. J., Hespos, S., & Gentner, D. (2018). Comparison within pairs promotes analogical abstraction in three-month-olds. *Cognition*, 176, 74-86.
- Cooperrider, K., & Gentner, D. (2018). Where do measurement units come from?. In C. Kalish, M. Rau, T. Rogers, & J. Zhu (Ed.), *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (pp. 240-245). Austin, TX: Cognitive Science Society.
- Gentner, D. & Maravilla, F. (2018). Analogical reasoning. L. J. Ball & V. A. Thompson (eds.) *International Handbook of Thinking & Reasoning* (pp. 186-203). NY, NY: Psychology Press.
- Gentner, D., Simms, N., Kurtz, K. J., Honke, G., Snoddy, S., Forbus, K. D., ... & Lyons, E. M. (2018). Relational categories: Why they're important and how they are learned. In C. Kalish, M. Rau, T. Rogers, & J. Zhu (Ed.), *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (pp. 27-28). Austin, TX: Cognitive Science Society.
- Anderson, E. M., Chang, Y.-J., Hespos, S. J., & Gentner, D. (2017). Analogical abstraction in three-month-olds. To appear in G. Gunzelmann, A. Howes, T. Tenbrink & E. Davelaar (Eds.) *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1544-1549). Austin, TX: Cognitive Science Society.
- Asmuth, J., & Gentner, D. (2017). Relational categories are more mutable than entity categories. *The Quarterly Journal of Experimental Psychology*, 70(10), 2007–2025.
doi:10.1080/17470218.2016.1219752
- Cooperrider, K., Gentner, D. & Goldin-Meadow, S. (2017). Analogical gestures foster understanding of causal systems. In G. Gunzelmann, A. Howes, T. Tenbrink & E. Davelaar (Eds.) *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 240-245). Austin, TX: Cognitive Science Society.
- Forbus, K. D., Ferguson, R. W., Lovett, A., & Gentner, D. (2017). Extending SME to handle large-scale cognitive modeling. *Cognitive Science*, 41. 1152-1201.
- Forbus, K. D., & Gentner, D. (2017). Evidence from machines that learn and think like people. *Behavioral and Brain Sciences*, 40.
- Gentner, D. & Hoyos, C. (2017). Analogy & abstraction. *Topics in Cognitive Science*, 9(3), 800-818.
- Hoyos, C., & Gentner, D. (2017). Generating explanations via analogical comparison. *Psychonomic Bulletin & Review*, 24. 1364-1374.
- Myers, M. & Gentner, D. (2017). Analogical inferences in causal systems. In G. Gunzelmann, A. Howes, T. Tenbrink & E. Davelaar (Eds.) *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 835-840). Austin, TX: Cognitive Science Society.

- Silvey, C., Gentner, D., Richland, L., & Goldin-Meadow, S. (2017). Children's specific comparisons from 26 to 58 months predict performance in verbal and non-verbal analogy tests in 6th grade. In G. Gunzelmann, A. Howes, T. Tenbrink & E. Davelaar (Eds.) *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 1072-1077). Austin, TX: Cognitive Science Society.
- Tilbe, T. J., Bohnemeyer, J., Báez, G. P., & Gentner, D. (2017). Part-whole categorization culture specific. In G. Gunzelmann, A. Howes, T. Tenbrink & E. Davelaar (Eds.) *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (pp. 3332-3337). Austin, TX: Cognitive Science Society.
- Yuan, L., Uttal, D., & Gentner, D. (2017). Analogical processes in children's understanding of spatial representations. *Developmental Psychology*, 1098-1114.
- Cooperrider, K., Gentner, D., & Goldin-Meadow, S. (2016). Spatial analogies pervade complex relational reasoning: Evidence from spontaneous gestures. *Cognitive Research: Principles and Implications*. DOI: 10.1186/s41235-016-0024-5
- Cooperrider, K., Gentner, D., & Goldin-Meadow, S. (2016). Gesture reveals spatial analogies during complex relational reasoning. D. Grodner, D. Mirman, A. Papafragou, J. Trueswell, J. Novick, S. Arunachalam, S. Christie, & C. Norris (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, pp. 692-697. Austin, TX: Cognitive Science Society.
- Christie, S., Gentner, D., Call, J., & Haun, D. B. M. (2016). Sensitivity to relational similarity and object similarity in apes and children. *Current Biology*, 26(4), 531-535.
- Gentner, D. (2016). Language as cognitive tool kit: How language supports relational thought. *American Psychologist*. 71(8):650-657.
- Gentner, D., Levine, S. C., Dhillon, S., Ping, R., Bradley, C., Isaia, A., & Honke, G. (2016). Rapid learning in a children's museum via analogical comparison. *Cognitive Science*, 40, 224-240.
- Hoyos, C., Shao, R., & Gentner, D. (2016). The paradox of relational development: Could language learning be (temporarily) harmful? D. Grodner, D. Mirman, A. Papafragou, J. Trueswell, J. Novick, S. Arunachalam, S. Christie, & C. Norris (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, pp 2507-2512. Austin, TX: Cognitive Science Society.
- Shao, R., & Gentner, D. (2016). Structural alignment in incidental word learning. D. Grodner, D. Mirman, A. Papafragou, J. Trueswell, J. Novick, S. Arunachalam, S. Christie, & C. Norris (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, 1038-1043. Austin, TX: Cognitive Science Society.
- Ferry, A. L., Hespos, S. J., & Gentner, D. (2015). Prelinguistic relational concepts: Investigating analogical processing in infants. *Child Development*, 86, 1386-1405.
- Gentner, D. & Anggoro, F. (2015). Comparison as a route to insight. *Riabilitazione Neurocognitiva Quadrimestrale di Scienze del Recupero*, pp. 105-112. Vicenza, Italy: Centro Studi di Riabilitazione Neurocognitiva.
- Goldwater, M., Pajak, B., Gentner, D., & Shao, R. (2015). Analogical processes in language learning. In D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society* (pp. 27 - 28). Austin, TX: Cognitive Science Society.
- Goldwater, M. B., & Gentner, D. (2015). On the acquisition of abstract knowledge: Structural alignment and explication in learning causal system categories. *Cognition*, 137, 137-153.

- Hoyos, C., Horton, W. S., & Gentner, D. (2015). Analogical comparison aids false belief understanding in preschoolers. In D. C. Noelle, R. Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society* (pp. 1 – 6). Austin, TX: Cognitive Science Society.
- Jamrozik, A. & Gentner, D. (2015). Well-hidden regularities: Abstract uses of *in* and *on* retain an aspect of their spatial meaning. *Cognitive Science*, 39. 1881-1911.
- Christie, S. & Gentner, D. (2014). Language helps children succeed on a classic analogy task. *Cognitive Science*, 38, 383-397.
- Edwards, B. J., Williams, J. J., Gentner, D., & Lombrozo, T. (2014). Effects of comparison and explanation on analogical transfer. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 445-450). Austin, TX: Cognitive Science Society.
- Jamrozik, A., & Gentner, D. (2014). Making sense of the abstract uses of the prepositions *in* and *on*. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 2411-2416). Austin, TX: Cognitive Science Society.
- Jee, B. D., Gentner, D., Uttal, D. H., Sageman, B., Forbus, K., Manduca, C., Ormand, C. J., Shipley, T., & Tikoff, B. (2014). Drawing on experience: How domain knowledge is reflected in sketches of scientific structures and processes. *Research in Science Education*, 44(6), 859-883.
- Kandaswamy, S., Forbus, K., & Gentner, D. (2014). Modeling learning via progressive alignment using interim generalizations. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 2471-2476). Austin, TX: Cognitive Science Society.
- Smith, L., Ping, R. M., Matlen, B. J., Goldwater, M. B., Gentner, D., & Levine, S. (2014). Mechanisms of spatial learning: Teaching children geometric categories. In C. Freksa, B. Nebel, M. Hegarty, & T. Barkowsky (Eds.) *Spatial Cognition IX* (pp. 325-337). Springer International Publishing. (selected Best Student Paper for Spatial Cognition 2014).
- Smith, L. A., & Gentner, D. (2014). The role of difference-detection in learning contrastive categories. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 1473-1478). Austin, TX: Cognitive Science Society.
- Özçalışkan, S., Gentner, D., & Goldin-Meadow, S. (2013). Do iconic gestures pave the way for children's early verbs? *Applied Psycholinguistics*, 35, 1143-1162.
- Finlayson, M., Fisseni, B., Gentner, D., et al. (2013). Computation and cognitive aspects of narrative. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the Thirty-fifth Annual Meeting of the Cognitive Science Society*. (pp. 81-82) Austin, TX: Cognitive Science Society.
- Gentner, D., Özyürek, A., Gürcanli, Ö., & Goldin-Meadow, S. (2013). Spatial language facilitates spatial cognition: Evidence from children who lack language input. *Cognition*, 127(3), 318-330.
- Gentner, D., & Smith, L. A. (2013). Analogical learning and reasoning. In D. Reisberg (Ed.), *Oxford library of Psychology* (pp. 668-681). New York, NY: Oxford University Press.

- Jamrozik, A., & Gentner, D. (2013) Relational labels can improve relational retrieval. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.). *Proceedings of the Thirty-fifth Annual Meeting of the Cognitive Science Society*. (pp. 651-656) Austin, TX: Cognitive Science Society.
- Jamrozik, A., Sagi, E., Goldwater, M., & Gentner, D. (2013). Relational words have high metaphoric potential. In E. Shutova, B. Beigman Klebanov, J. Tetreault, & Z. Kozareva (Eds.), *Proceedings of the 2013 Meeting of the North American Association for Computational Linguistics: Human Language Technologies, First Workshop on Metaphor in NLP* (pp. 21- 26). Atlanta, Georgia: Association for Computational Linguistics.
- Jee, B., Uttal, D., Gentner, D., Manduca, C., Shipley, T., & Sageman, B. (2013). Finding faults: analogical comparison supports spatial concept learning in geoscience. *Cognitive Processing*, 14(2), 175-187.
- Kurtz, K. J., Boukrina, O., & Gentner, D. (2013). Comparison promotes learning and transfer of relational categories. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 39(4), 1303-1310.
- Kurtz, K. J., & Gentner, D. (2013). Detecting anomalous features in complex stimuli: The role of structured comparison. *Journal of Experimental Psychology: Applied*, 19(3), 219-232.
- Shipley, T. F., & Gentner, D. (2013). Introduction to the special issue on spatial learning and reasoning processes. *Cognitive Processing*, 14(2), 103-104.
- Simms, N., & Gentner, D. (2013) Encoding time and allocation of attention in analogical development. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.). *Proceedings of the Thirty-fifth Annual Meeting of the Cognitive Science Society*. (pp.1318-1323) Austin, TX: Cognitive Science Society.
- Christie, S. & Gentner, D. (2012). Language and cognition in development. In M. M. Spivey, K. McRae, & M. Joanisse (Eds.) *The Cambridge Handbook of Psycholinguistics*. Cambridge: Cambridge University Press, pp 653-673.
- Christie, S., Gentner, D., Imai, M., Haryu, E., Okada, H., Son, J. Y., ... & Richland, L. E. (2012). The role of comparison in structure learning: Developmental, learning science, and computational perspectives. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.) *Proceedings of the Thirty-fourth Annual Meeting of the Cognitive Science Society*. (pp. 34-35). Sapporo, Japan: Cognitive Science Society.
- Feist, M. I., & Gentner, D. (2012). Multiple influences on the use of English spatial prepositions: The case of “in” and “on”. In C. Boonthum-Denecke, P. M. McCarthy, & T. A. Lamkin (Eds.) *Cross-disciplinary advances in applied natural language processing: Issues and approaches*. Hershey, PA: IGI Global. 305-323.
- Gentner, D. & Smith, L. (2012). Analogical reasoning. In V. S. Ramachandran (Ed.) *Encyclopedia of Human Behavior* (2nd Ed.). pp. 130-136. Oxford, UK: Elsevier.
- Goldwater, M. B., Friedman, S., Gentner, D., Forbus, K., Fisher, C. L., Connor, M., ... & Dell, G. S. (2012). New frontiers in computational models of grammatical development. In N. Miyake, D. Peebles, & R. P. Cooper (Eds.) *Proceedings of the Thirty-fourth Annual Meeting of the Cognitive Science Society*. (pp. 40-41). Sapporo, Japan: Cognitive Science Society.
- Rottman, B. M., Gentner, D. & Goldwater, M. B. (2012). Causal systems categories: Differences in novice and expert categorization of causal phenomena. *Cognitive Science*, 36(5), 919-932.

- Sagi, E., Gentner, D. & Lovett, A. (2012). What difference reveals about similarity. *Cognitive Science*, 36(6), 1019-1050.
- Smith, L.A. & Gentner, D. (2012). Using spatial analogy to facilitate graph learning. *Spatial Cognition VIII, Lecture Notes in Computer Science*, 7463, (pp. 196-209). Berlin Heidelberg: Springer.
- Gentner, D. (2011). Metaphors for mind. In T. Luhrman (Ed.) *Toward an anthropological theory of mind. Suomen Antropologi: Journal of the Finnish Anthropological Society*, 36(4), 48-49.
- Gentner, D., Anggoro, F. K., & Klibanoff, R. S. (2011). Structure-mapping and relational language support children's learning of relational categories. *Child Development*, 82(4), 1173-1188.
- Gentner, D., & Forbus, K. (2011). Computational models of analogy. *WIREs Cognitive Science*, 2, 266-276.
- Gentner, D. & Simms, N. (2011). Language and analogy in conceptual change. In *Behavioral and Brain Sciences*, 34(3), 128-129.
- Jamrozik, A., & Gentner, D. (2011). Prepositions in and on retain aspects of spatial meaning in abstract contexts. *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 1589-1594). Boston, MA: Cognitive Science Society.
- Taylor, J. L. M., Friedman, S. E., Forbus, K. D., Goldwater, M., & Gentner, D. (2011). Modeling structural priming in sentence production via analogical processes. In L. Carlson, C. Hoelscher & T. F. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 2916-2921). Boston, MA: Cognitive Science Society.
- Wolff, P., & Gentner, D. (2011). Structure-mapping in metaphor comprehension. *Cognitive Science*, 35, 1456-1448.
- Christie, S. & Gentner, D. (2010). Where hypotheses come from: Learning new relations by structural alignment. *Journal of Cognition and Development*, 11(3), 356-373. (Note: This paper was selected for the Journal of Cognition and Development's Editor's Choice Award for 2010)
- Gentner, D. (2010). Bootstrapping the mind: Analogical processes and symbol systems. *Cognitive Science*, 34(5), 752-775.
- Gentner, D. (2010). Psychology in Cognitive Science: 1978 to 2038. *Topics in Cognitive Science*, 2, 328-344.
- Gentner, D. & Christie, S. (2010). Mutual bootstrapping between language and analogical processing. *Language and Cognition*, 2(2), 261-283.
- Gentner, D. & Jee, B. (2010). De l'alchimie aux sciences modernes: Du bon usage de la pensée analogique. *Sciences Humaines*, 215, 40-43.
- Gentner, D., & Colhoun, J. (2010). Analogical processes in human thinking and learning. In B. Glatzeder, V. Goel, & A. von Müller (Vol. Eds.), *On Thinking: Vol. 2. Towards a Theory of Thinking*, pp 35—48. Berlin: Springer-Verlag.
- Graham, S., A., Namy, L. L., Gentner, D., & Meagher, K. (2010) The role of comparison in preschoolers' novel object categorization. *Journal of Experimental Child Psychology*, 107, 280-290.
- Jee, B. D., Uttal, D. H., Gentner, D., Manduca, C., Shipley, T., Sageman, B., Ormand, C. J., & Tikoff, B. (2010). Analogical thinking in geoscience education. *Journal of Geoscience Education*, 58(1), 2-13.

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- Smith, L.A. & Gentner, D. (2010). The use of qualitative principles to promote understanding of systems. In J. de Kleer & K. Forbus (Eds.) *Proceedings of the 24th International Workshop on Qualitative Reasoning*, pp. 72-76. Portland, OR.
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- Dehghani, M., Gentner, D., Forbus, K., Ekhtiari, H., & Sachdeva, S., (2009) Analogy and moral decision making. In B. Kokinov, K. Holyoak & D. Gentner (Eds.) *Proceedings of the Second International Conference on Analogy*, pp. 1-10. NBU Press, Sofia, Bulgaria.
- Dehghani, M., Sachdeva, S., Ekhtiari, H., Gentner, D., & Forbus, K. (2009). The role of cultural narratives in moral decision making. In N.A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society*, (pp. 1912-1917). Amsterdam, Netherlands: Cognitive Science Society.
- Gelman, S., Raman, L., & Gentner, D. (2009). Effects of language and similarity on comparison processing. *Language Learning and Development*, 5, 147-171.
- Gentner, D., & Boroditsky, L. (2009). Early acquisition of nouns and verbs: Evidence from Navajo. In V. Gathercole (Ed.) *Routes to Language: Studies in honor of Melissa Bowerman*, 5-36. Taylor & Francis, New York, NY.
- Gentner, D., Levine, S., Dhillon, S., & Poltermann, A. (2009). Using structural alignment to facilitate learning of spatial concepts in an informal setting. In B. Kokinov, K. Holyoak & D. Gentner (Eds.) *Proceedings of the Second International Conference on Analogy*, pp. 175-182. NBU Press, Sofia, Bulgaria.
- Gentner, D., & Bowerman, M. (2009). Why some spatial semantic categories are harder to learn than others: The Typological Prevalence hypothesis. In J. Guo, E. Lieven, S. Ervin-Tripp, N. Budwig, S. Özçaliskan, & K. Nakamura (eds.). *Crosslinguistic approaches to the psychology of language: Research in the tradition of Dan Isaac Slobin*. (pp. 465-480). NY, New York: Lawrence Erlbaum Associates.
- Gentner, D., Loewenstein, J., Thompson, L., & Forbus, K. (2009) Reviving inert knowledge: Analogical abstraction supports relational retrieval of past events. *Cognitive Science*, 3, 1343-1382.
- Gentner, D., Simms, N., & Flusberg, S. (2009). Relational language helps children reason analogically. In N.A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society*, pp. 1054-1059. Amsterdam, Netherlands: Cognitive Science Society.
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Papers in Preparation

- Anggoro, F., & Gentner, D. (in preparation). Cross-linguistic differences in kinship categories influence conceptual judgments and memory.
- Hoyos, C., Shao, R. & Gentner, D. (in preparation). Does language help or hinder relational processing? Detrimental effects of nominal language on a classic relational task.
- Kurtz, K. J., & Gentner, D. (under review). Kinds of kinds: An investigation of cross-cutting higher level categories.
- Sheehan, K. J., Gentner, D. & Uttal, D. H. (under review). Young children rely on overall similarity to understand a novel symbol.
- Yeh, D. & Gentner, D. (in preparation). Reasoning counterfactually in Chinese. Unpublished ms.

Presentations (Last three years)

- Gentner, D. (2019, October). Metaphor, abstraction and language change. Invited talk. *Evolinguistics Symposium: Concepts and Categories*. Komaba Center for Educational Excellence. Tokyo, Japan.
- Gentner, D. (2019, October). How children learn relational concepts. Keynote speaker. ABLE 2019. Kyoto, Japan.
- Ash, M., Cooperrider, K., Gentner, D., & Goldin-Meadow, S. (May 2019). More than communication: Gesturing for oneself during abstract reasoning. Presented at the annual meeting of the Midwestern Psychological Association.
- Gentner, D. (2019, April). Language and the relational mind. Invited talk. *University of Colorado, Boulder*. Colorado.
- Shao, R., Hoyos, C., & Gentner, D. (March, 2019). When and how children understand same/different relations. Talk presented at the 2019 Biennial Meeting of the Society for Research in Child Development. Baltimore, MD.
- Hespos, S., & Gentner, D. (March, 2019). When one exemplar behaves like many. Talk presented at the 2019 Biennial Meeting of the Society for Research in Child Development. Baltimore, MD.
- Gentner, D. (February, 2019). Analogy and language in relational learning. Invited talk. *University of California, San Diego*. California.
- Gentner, D. (September, 2018). The relational mind. Keynote talk. *ESCON 2018*, University of Cologne. Köln, Germany.
- Gentner, D., Cooperrider, K., & Goldin-Meadow, S. (September, 2018). Spatial analogies in complex relational reasoning: Evidence from spontaneous gestures. Invited symposium, *International Conference on Spatial Cognition*. Rome, Italy.
- Gentner, D. (May, 2018). Analogy and language in relational learning. Invited talk. *University of Wisconsin, Madison*. Wisconsin.
- Gentner, D. (May, 2018). The relational mind. Keynote talk. *International Meeting of the Psychonomic Society*, Netherlands, Amsterdam.
- Gentner, D. (November, 2017). Metaphor, relational abstraction and language change. Invited talk. Columbia University. New York, NY.
- Carey, S. E., Gentner, D., & Feiman, R. (October, 2017). The ontogenetic origin of abstract combinatorial thought. Workshop presented at the Annual Meeting of the Cognitive Developmental Society, Portland, OR.
- Hoyos, C., Shao, R., & Gentner, D. (June 2017). Detrimental effects of noun focus on a classic relational task. Talk presented at Same-Different Workshop. Cambridge, MA.
- Hoyos, C., Horton, W. & Gentner, D. (April, 2017). Structural alignment across events promotes false belief understanding. Talk presented at the 2017 Biennial Meeting of the Society for Research in Child Development. Austin, TX.

- Shao, R. & Gentner, D. (April, 2017). Structural alignment facilitates spontaneous property word learning in preschoolers. Talk presented at the 2017 Biennial Meeting of the Society for Research in Child Development. Austin, TX.
- Gentner, D. (2016, December). Analogical processes in learning. Invited talk, Princeton University. New Jersey.
- Shao, R. & Gentner, D. (November 2016). Structural alignment facilitates spontaneous adjective learning in preschoolers. Talk presented at the 41th Annual Boston University. Conference on Language Development. Boston, MA.
- Gentner, D. (2016, August). Why we're so smart: Analogical processing and relational representation. Rumelhart Prize Talk, 38th Annual Conference of the Cognitive Science Society. Philadelphia.
- Gentner, D. (2016, August). Analogical processes in human learning. Distinguished Scientific Contribution Award Address. 124th Annual APA Convention. Denver.
- Gentner, D. (2016, July). Metaphor, analogy, relational concepts and abstraction. Plenary talk, 6th UK Cognitive Linguistics Conference. Bangor, Wales.
- Gentner, D. (2016, February). Principles of spatial learning via comparison. Network for the Science of Learning Awardees' Meeting. National Science Foundation invited conference. Washington, D. C.
- Shao, R., Hoyos, C., & Gentner, D. (February 2016). Spatial comparison promotes learning in children and adults. Poster presented at the Network for the Science of Learning Awardees' Meeting 2016. Arlington, VA.
- Gentner, D. (2016, January). Comparing children and great apes in an analogical reasoning task. Presentation for Workshop on Spatial Thinking, San Diego.