

# Christian Hoyos

Department of Psychology

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## EDUCATION

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- 2011 – Present      Ph.D. Candidate, Northwestern University, IL  
Cognitive Psychology  
Thesis: The role of analogical comparison in theory of mind development  
Advisor: Dedre Gentner  
Certificate in Management, Kellogg School of Management  
Certificate in Cognitive Science
- 2012                      M.A., Northwestern University, IL  
Master's Thesis: Learning about structural stability in construction through  
comparison and explanation.  
Committee: Dedre Gentner, David Uttal
- 2011                      B.A., with Honors, Wesleyan University, CT  
Psychology, French Studies, Concentration in Cognitive Science  
Advisor: Anna Shusterman

## PUBLICATIONS

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**Hoyos, C.**, Shao, R., & Gentner, D. (under review). Detrimental effects of noun focus on a classic relational task.

Rabkina, I., McFate, C., Forbus, K. D., & **Hoyos, C.** (2017). Towards a computational analogical theory of mind. To appear in the *Proceedings of the 39<sup>th</sup> Annual Conference of the Cognitive Science Society*.

Gentner, D., & **Hoyos, C.** (2017). Analogy and abstraction. *Topics in Cognitive Science*.

**Hoyos, C.**, & Gentner, D. (2017). Generating explanations via analogical comparison. *Psychonomic Bulletin & Review*.

**Hoyos, C.**, Shao, R., & Gentner, D. (2016). The paradox of relational development: Could language learning be (temporarily) harmful? In A. Papafragou, D. Grodner, D. Mirman, & J. C. Trueswell (Eds.), *Proceedings of the 38<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 2507 – 2512). Austin, TX: Cognitive Science Society.

**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 37<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 944 – 949). Austin, TX: Cognitive Science Society.

## FELLOWSHIPS & AWARDS

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2013	Cognitive Science Travel Award, Northwestern University
2012 - 2015	NSF Graduate Research Fellow
2011	NSF Graduate Research Fellowship – Honorable Mention
2011	Walkley Prize for Excellence in Psychology, Wesleyan University
2011	Scott Prize for Excellence in Romance Languages, Wesleyan University
2010 - 2011	Ronald E. McNair Scholar, Wesleyan University
2010	Howard Hughes Fellow, Wesleyan University
2009	Summer Experience Grant Recipient, Wesleyan University

## CONFERENCE PRESENTATIONS

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**Hoyos, C.,** Horton, W. S., & Gentner, D. (2017). Structural alignment across events promotes false belief understanding. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Apr 6 – 8, Austin, TX.

**Hoyos, C.,** Shao, R., & Gentner, D. (2016). The paradox of relational development: Could language learning be (temporarily) harmful? Paper presented to the 38<sup>th</sup> Annual Conference of the Cognitive Science Society, Aug 10 – 13, Philadelphia, PA.

**Hoyos, C.,** Shao, R., & Gentner, D. (2016). Language is a double-edged sword for relational reasoning. In C. Walker (Chair), *The ontogeny and phylogeny of relational reasoning*. Symposium presented at the International Conference on Thinking, Aug 4 – 6, Providence, RI.

**Hoyos, C.,** & Gentner, D. (2015). Explanation and analogy combine to support early learning. Poster presented at the Ninth Biennial Meeting of the Cognitive Development Society, Oct 9 – 10, Columbus, OH.

**Hoyos, C.,** Shao, R., & Gentner, D. (2015). Language in the development of relational reasoning: Friend or foe? Paper presented at the Ninth Biennial Meeting of the Cognitive Development Society, Oct 9 – 10, Columbus, OH.

**Hoyos, C.,** Horton, W. S., & Gentner, D. (2015). Analogical comparison aids false belief understanding in preschoolers. Poster presented to the 37<sup>th</sup> Annual Conference of the Cognitive Science Society, July 23 – 25, Pasadena, CA.

**Hoyos, C.,** & Gentner, D. (2015). Learning a basic principle of engineering through analogical comparison and self-explanation. In E. Klein (Chair), *Theoretical frameworks informing educational practice: Learning through analogical processes*. Symposium presented at the National Science Foundation's Eighth Annual Inter-Science of Learning Center Conference, May 31<sup>st</sup>-June 2<sup>nd</sup>, La Jolla, CA.

**Hoyos, C.,** & Gentner, D. (2015, March). Learning about mental states through analogical comparison. In C. Walker (Chair), *Knowledge from nowhere: How thinking leads to learning in childhood*. Symposium presented to the Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

**Hoyos, C.,** Horton, W. S., & Gentner, D. (2014, July). Comparing mental states aids children's false belief understanding. In **C. Hoyos** & D. Gentner (Chairs), *The role of comparison in social cognition*. Symposium presented to the 36<sup>th</sup> Annual Conference of the Cognitive Science Society, Quebec City, Canada.

**Hoyos, C.,** Horton, W. S., & Gentner, D. (2013). The role of comparison processes in false belief understanding. Poster presented at the Eighth Biennial Meeting of the Cognitive Development Society, Oct 18 – 19, Memphis, Tennessee.

**Hoyos, C.,** & Gentner, D. (2013). Learning via analogical comparison and self-explanation. Poster presented to the Third International Conference on Analogy, Aug 6 – 8, Dijon, France.

**Hoyos, C., & Gentner, D. (2013).** Comparison and explanation in learning: Children's understanding of a basic engineering principle. Poster presented to the 35<sup>th</sup> Annual Conference of the Cognitive Science Society, July 31 – Aug 3, Berlin, Germany.

**Hoyos, C., & Gentner, D. (2013).** Learning about structural stability in construction: The role of instructive principles in comparison processes. Poster presented at the Biennial Meeting for the Society for Research on Child Development, Apr 18 – 20, Seattle, Washington.

**Hoyos, C., & Gentner, D. (2012).** Combining spatial alignment and explanation in learning about principles of spatial stability in construction. Poster presented at the National Science Foundation's Fifth Annual Inter-Science of Learning Center Conference, Apr 21<sup>st</sup> – 23<sup>rd</sup>, La Jolla, CA.

**Hoyos, C., Nuzzi, L., & Shusterman, A. (2011).** Left-right language predicts children's landmark use in a reorientation task. Poster presented at the Biennial Meeting for the Society for Research on Child Development, March 31 – Apr 2, Montreal, Canada.

## **INVITED TALKS**

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- 2017 "Analogical processes support false belief understanding", Developmental Brownbag, University of Chicago
- 2016 "The role of analogical comparison in theory of mind development", Developmental Brownbag, University of Wisconsin-Madison
- 2015 "Language in the development of relational reasoning: Friend or foe?", University of Chicago
- 2015 "Analogical comparison aids false belief understanding in preschoolers", SUNY Binghamton
- 2014 "Analogical processes promote false belief understanding", Developmental Brownbag, University of Illinois at Urbana-Champaign.
- 2013 "Learning about structural stability through contrasting cases and instructive principles", SILC Student Exchange, University of Chicago

## **TEACHING EXPERIENCE**

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### **Teaching Assistantships**

- Research Methods, Prof. S. Perry (Northwestern University, 2017)
- Cognitive Psychology, Prof. S. Broaders (Northwestern University, 2015)
- Introduction to Psychology, Prof. E. Finkel (Northwestern University, 2014)
- Research Methods, Prof. B. Gorvine (Northwestern University, 2013)
- Developmental Psychology, Prof. K. Rosengren (Northwestern University, 2012)
- Close Relationships, Prof. E. Finkel (Northwestern University, 2012)
- Brain Damage & the Mind, Prof. K. Paller (Northwestern University, 2012)
- French in Action I, Prof. C. Ostrow (Wesleyan University, 2010)

### **Guest Lecturer**

- 2017 "Analogy and theory of mind," Analogy & Similarity, Northwestern University
- 2016 "Learning and Reasoning", Mind & Brain, Northwestern University
- 2016 "Language in Theory of Mind", Language & Thought, Northwestern University
- 2014 "How do we know what babies know?", Intro to CogSci, Northwestern University
- 2011 "Direction-of-transfer effects in children's map use", Research Methods, Wesleyan University

## SERVICE

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### Professional

Reviewer *Mind & Language, Cognitive Science, Frontiers in Psychology.*  
2014 - 2016 Site-Wide Student and Post-Doc Representative for the Spatial Intelligence and Learning Center (SILC)  
2014 - 2016 Northwestern Student Representative for SILC

### University/Outreach

2014 Preschool Directors' Roundtable Guest Speaker, Winnetka, IL  
2014 – 2016 Schuler Scholar Program Volunteer, Northwestern  
2013 Undergraduate Cognitive Science Club Guest Speaker, Northwestern  
2013 Graduate Student Representative for Recruitment, Northwestern