

## Stella Christie

---

CONTACT INFORMATION	Swarthmore College Department of Psychology 500 College Avenue Swarthmore, PA 19081, USA	<i>Phone:</i> +1 (267) 449-9109 <i>E-mail:</i> christie@swarthmore.edu <i>Website:</i> kidlab.swarthmore.edu
BIOGRAPHICAL	<b>Date and place of birth:</b> 11 January 1979, Medan, Indonesia <b>Residence status:</b> Permanent Resident of the United States (Green Card holder) <b>Citizenship:</b> Indonesian	
LANGUAGES	Indonesian (native); Mandarin Chinese, Polish, Spanish (fluent)	
RESEARCH INTERESTS	<ul style="list-style-type: none"><li>• Comparison processes in the acquisition of relational concepts</li><li>• Language as a cognitive toolkit in relational learning and abstraction</li><li>• Language typology and its effects on cognition</li><li>• Comparison processes in social and cultural learning</li></ul>	
EMPLOYMENT	<b>Swarthmore College</b> , Swarthmore, PA Assistant Professor, 2012 - current  <b>Stanford University</b> , Stanford, CA Visiting Scholar, 2015 - 2016  <b>University of British Columbia</b> , Vancouver, Canada Postdoctoral Research and Teaching Fellow, 2010 - 2012	
EDUCATION	<b>Northwestern University</b> , Evanston, Illinois, USA Ph.D. in Cognitive Psychology, 2010 Psychology Department Teaching Certificate  <b>Harvard University</b> , Cambridge, Massachusetts, USA B.A. in Psychology Magna Cum Laude with Highest Honors, 2004 Certificate in Mind Brain Behavior Citation in Modern Chinese	
PUBLICATIONS, STUDENT AUTHORS IN <b>bold</b>	<b>Journal Articles</b> Christie, S. (in press). Structure mapping for social learning. <i>Topics in Cognitive Science</i> . Christie, S., Gentner, D., Call, J., & Haun, D. (2016). Sensitivity to relational similarity and object similarity in apes and children. <i>Current Biology</i> , 26(4), 531-535. <b>Noyes, A.</b> & Christie, S. (2016). Children prefer diverse samples for inductive reasoning in the social domain. <i>Child Development</i> , 87(4), 1090-1098.	

- Christie, S. & Gentner, D. (2014). Language helps children succeed on a classic analogy task. *Cognitive Science*, 38(2), 383-397.
- Hespos, S.J., **Dora, B.**, Rips, L.J. & Christie, S. (2012). Infants make quantity discriminations for substances. *Child Development*, 83(2), 554-567.
- Christie, S. & Gentner, D. (2010). Where hypotheses come from: Learning new relations by structural alignment. *Journal of Cognition and Development*, 11(3), 356-373. 2010 Editor's Choice Award for Best Article.
- Gentner, D. & Christie, S. (2010). Mutual bootstrapping between language and analogical processing. *Language and Cognition*, 2(2), 261-283.
- Gentner, D. & Christie, S. (2008). Relational language supports relational cognition in humans and apes. *Brain and Behavioral Science*, 31, 2.
- Christie, S. & Gentner, D. (2007). Relational similarity in identity relation: The role of language. In Vosniadou, S. & Kayser, D. (Eds.) *Proceedings of the Second European Cognitive Science Conference*.
- Gentner, D. & Christie, S. (2006). Using numbers to structure space. In Sun, R. & Miyake, N. (Eds.) *Proceedings of the Twenty-Eight Annual meeting of the Cognitive Science Society*.
- Jameson, J. Gentner, D., Day, S., Christie, S. Colhoun, J. & Bartels, D. (2005). Clarifying the role of alignability in similarity comparisons. In Bruno, B.G., Barsalou, L. & Buciarrelli, M. (Eds.) *Proceedings of the Twenty-Seventh Annual meeting of the Cognitive Science Society*, 1048-1053.
- Mast, F.W., Ganis, G., Christie, S. & Kosslyn, S.M. (2003). Four types of mental imagery processing in upright and tilted observers. *Cognitive Brain Research*, 17, 209-213.

### Book Chapters

- Christie, S. (to appear). Analogical Reasoning. In: M. Bornstein, M. Arterberry, K. Fingerma, & J. Lansford (Eds.) *SAGE Encyclopedia of Lifespan Human Development*, Sage Publication.
- Christie, S. & Gentner, D. (2012). Language and cognition in development. In: M.M. Spivey, K. McRae, & M. Joanisse, (Eds.) *Cambridge Handbook of Psycholinguistics*, Cambridge University Press.

### Under Review

- Christie, S., **Kumar, S.** *Imitating groups for cultural learning: homogenous vs. diverse groups*. Under review in Psychological Science
- Christie, S., **Liu, R.** *Social Logic: How diversity matters for inductive social generalization*. Under review in Cognition

### In Preparation

- Christie, S., **Lastarria, W.**, & **Fialkow, D.** *Three-year-olds use informative comparison to teach others*.
- Grodner, D.J., **Cox, B.**, **Sciascia, J.** & Christie, S. *Motivated preschoolers make scalar inferences*.
- Christie, S., & Hall, D.G. *Children prefer to learn from teachers who provide more informative comparisons*.
- Christie, S. & Gentner, D. *Language systematicity supports relational abstraction*.

Durgin, F.H, **Oh, J.**, Christie, S., **Scheibmeir, A.**, , Norris, C.J., & Dean, A.M. *Efficient angular coding provides a precise quantitative account of the systematic misperception of ground distance across the lifespan.*

Hall, D.G., & Christie, S. *Category and brands understanding.*

REFEREED  
PRESENTATIONS

Christie, S., & **Liu, R.** (2017). *The influence of a diverse environment on children's social generalization.* Talk to be presented at the Cognitive Development Society Conference, Portland, Oregon.

Christie, S., & **Siego, C.** (2017). *Alignment in information exchange.* Talk to be presented at the Analogy Conference, Paris, France.

Christie, S., & **Liu, R.** (2017). *Comparing evidence for social generalization: Diverse vs. Narrow.* Poster presented at the Dubrovnik Conference on Cognitive Science, Dubrovnik, Croatia.

Christie, S., & **Kumar, S.** (2017). *Relational Reasoning about Social Groups Affects Imitation Learning.* Talk presented at the Society of Research for Child Development Conference, Austin, Texas.

Christie, S., **Talbot, R.**, **Kim, J.**, & **Kumar, S.** (2015). *Imitating Group for Cultural Transmission.* Poster presented at the Cognitive Development Society Conference, Columbus, Ohio.

**Noyes, A.**, & Christie, S. (2015). *Children Prefer Diverse Samples for Inductive Reasoning in the Social Domain.* Talk presented at the Budapest CEU Conference on Cognitive Development, Budapest, Hungary.

Christie, S., **Fialkow, D.**, **Lastarria, W.** (2015). *Selective Pedagogy: Children Choose The Best Comparison to Teach Others.* Talk presented at the Biennial Meeting of Society for Research in Child Development, Philadelphia, PA.

**Noyes, A.**, & Christie, S. (2015). *Inductive Reasoning in the Social Domain.* Poster presented for the Biennial Meeting of Society for Research in Child Development, Philadelphia, PA.

Christie, S., **Murphy, Z.**, **Obee, A. F.**, (2014). *Who Do You Copy? Imitation Learning from Diverse vs. Similar Groups.* Talk presented at the Annual Meeting of Cognitive Science Society, Quebec City, Canada.

Symposium chair. *The Role of Authenticity in Children's Thinking about Individual Objects.* 2013 Paper Symposium, the Biennial Meeting of Society for Research in Child Development, Seattle, Washington, USA.

Christie, S. & Hall, D.G. (2013). *Young Children Prefer to Learn from Teachers Who Provide More Informative Comparisons.* Poster presented at the Biennial Meeting of Society for Research in Child Development, Seattle, Washington, USA.

Hall, D.G., & Christie, S. (2013). *Avoiding the Counterfeit: Children's Learning of Brand Concepts.* Talk presented at the Biennial Meeting of Society for Research in Child Development, Seattle, Washington, USA.

Hall, D.G., Christie, S., Wu, F., Lee, A., Marchak, K., \*Cousineau, V. (2013). *Nike Shoes and Running Shoes: Children's Representation of Brand Concepts and Kind Concepts.* Poster presented at the Biennial Meeting of Society for Research in Child Development, Seattle, Washington, USA.

Christie, S. & Gentner, D. (2012). *Domain Specific vs Abstract Language in Spatial Learning.* Talk presented at the Meeting of Cognitive Science Society, Sapporo, Japan.

Christie, S. & Gentner, D. (2011). *Mechanisms of Language in Relational Abstrac-*

tion. Talk presented at the VII Biennial Meeting of Cognitive Development Society, Philadelphia, PA, USA.

Symposium organizer. *Comparing Comparisons: Does Comparison Learning Vary Across Domains?* 2011 VII Biennial Meeting of Cognitive Development Society, Philadelphia, PA, USA.

Christie, S. & Gentner, D. (2009). *Relational Learning From Multiple Exemplars: The Role of Alignment.* Talk presented at the VI Biennial Meeting of Cognitive Development Society, San Antonio, Texas, USA.

Symposium organizer. *Mechanisms of learning from multiple exemplars: Alignment and explanation.* 2009 VI Biennial Meeting of Cognitive Development Society, San Antonio, Texas, USA

Gentner, D. & Christie, S. (2009). *Comparison Supports Children's Learning of New Spatial Relational Categories.* Talk presented at the Biennial Meeting of Society for Research in Child Development, Denver, Colorado, USA.

Christie, S. & Gentner, D. (2009). *Language and Progressive Alignment in Development of Relational Ability.* Poster presented at the Biennial Meeting of Society for Research in Child Development, Denver, Colorado, USA.

Dora, B., Hespos, S.J., Rips, L. & Christie, S. (2009). *Infants Make Quantity Discriminations for Substances.* Poster presented at the Biennial Meeting of Society for Research in Child Development, Denver, Colorado, USA.

Christie, S. & Gentner, D. (2008). *Language Systematicity Supports Spatial Mapping.* Poster presented at the International Conference of Spatial Cognition, Freiburg, Germany.

Christie, S. & Gentner, D. (2008). *Early Relational Similarity.* Talk presented at the International Conference of Cognitive Science, Moscow, Russia.

Christie, S. & Gentner, D., & Sloutsky, V. (2008). *Process of Comparison: Words vs NonWords.* Poster presented at the Annual Meeting of the Cognitive Science Society.

Christie, S., & Gentner, D. Anggoro, F., Namy, L. (2007). *Comparison in Relational Learning.* Talk presented at the 5th Conference of the Cognitive Development Society, Santa Fe, New Mexico, USA.

Gentner, D. & Christie, S. (2007). *What's Special About Humans.* Invited talk for workshop *The Role of Analogy in Thought and Learning*, Iowa Center for Developmental and Learning Sciences, University of Iowa, Iowa City, USA.

Gentner, D. & Christie, S. (2007). *Learning Novel Relations via Comparison.* Talk presented at the Conference of European Cognitive Science, Delphi, Greece.

Christie, S., & Gentner, D. (2007) *Relational Similarity in Identity Relation: The Role of Language.* Talk presented at the Conference of European Cognitive Science, Delphi, Greece.

Colhoun, J., Christie, S., Gentner, D. (2007). *Comparison in Learning.* Talk presented at the AERA Conference, Chicago, Illinois, USA.

Christie, S. Markson, L. Crisp, J. & Romberg, A. (2006). *Learning about artifacts and their functions in infancy.* Poster presented at the International Conference of Infant Studies, Kyoto, Japan.

Gentner, D. & Christie, S. (2006). *Using numbers to structure space.* Talk presented at the Twenty-Eighth Annual Meeting of the Cognitive Science Society, Vancouver, Canada.

Christie, S. & Gentner, D. (2005). *Language highlights relational structure.* Poster

presented at the Cognitive Development Society Conference, San Diego, California, USA.

Christie, S., Markson, L. & Spelke, E.S. (2005). *18-month-olds' understanding of structure-function correlation*. Poster presented at the Biennial Meeting of Society for Research in Child Development, Atlanta, Georgia, USA.

Markson, L., Christie, S. & Spelke, E.S. (2004). *Rapid learning about objects in infancy*. Poster presented at the International Conference of Infant Studies, Chicago, Illinois, USA.

#### INVITED TALKS

*Learning by Comparison*. Invited speaker for the Presidential Symposium, the Biennial Meeting of Cognitive Development Society, Portland, Oregon, October, 2017.

*Comparison for Learning Social Structures*. Invited speaker for the Rumelhart Symposium, the Annual Meeting of Cognitive Science Society, Philadelphia, PA, August, 2016.

*Learning Relations by Comparison*, Peking University, Beijing, China, August, 2016.

*Learning by Comparison*, UC Berkeley, February, 2016.

*Comparison for Social Learning*, University of Cologne, Germany, November, 2015.

*Mutual Bootstrapping between Language and Comparison*, University of Radboud, The Netherlands, November, 2015.

*How to Compare and What You Learn From It*, Stanford University, May, 2015.

*Learning by Comparison in Cognitive and Social Development*, Princeton University, November, 2014.

*Who is Smarter: Analogical Reasoning in Great Apes vs. Human Children*, Bryn Mawr, Haverford, and Swarthmore Colleges Mind Meeting, 2014.

*Learning Relations: Mutual Bootstrapping between Language and Comparison*, Temple University, 2012.

*Language and Relational Reasoning*, Harvard University, 2011.

*What Makes Us Smart? Mutual Bootstrapping between Language and Analogy*, California State University Los Angeles, 2011.

*Sameness Is Not Simple: Learning to Perceive Relational Similarity*, University of British Columbia, 2011.

#### GRANTS, FELLOWSHIPS AND AWARDS

##### **Grants**

Research Grant, Swarthmore College, \$100,000, 2012-2017

Student-Faculty Joint Research Projects, Swarthmore College, \$46,500, 2013-2017

Faculty Research Grants, Swarthmore College, \$7,200, 2012-2015

Science Equipment Fund, Swarthmore College, \$20,000, 2013

Hungerford Faculty Support Fund, Swarthmore College, \$1758, 2013

Psychology Research Grant, University of British Columbia \$10,000, 2012-2013

##### **Fellowships**

Lang Sabbatical Fellowship, Swarthmore College, 2015-2016

Postdoctoral Research and Teaching Fellowship, University of British Columbia, 2010-2012

Cognitive Science Graduate Fellowship, Northwestern University, 2006-2007  
Harvard-Yenching Fellowship for study abroad in East Asia, 2002-2003  
Harvard College Undergraduate Research Fellowship, 2001-2002  
United World College Scholarship, 1997-1999  
ASEAN Scholarship, Singapore Ministry of Education, 1995-1997

### Awards

James S. McDonnell Foundation, nominated (among 20 nominees) for **Understanding Human Cognition Award**, 2016  
Journal of Cognition and Development's Editor's Choice Award, 2010  
Travel Grant - International Conference of Cognitive Science, Moscow, Russia, 2008  
Early Career Researcher Travel Grant - International Society of Infant Studies, 2006  
Conference Travel Award - Cognitive Science Society, 2005  
Graduate Travel Award - Northwestern University, 2005  
Psychology Thesis Prize - Harvard University, 2004  
Jerome Kagan Undergraduate Research Award for Outstanding Thesis - Harvard University, 2004  
Harvard College Undergraduate Research Fellowship, 2001-2002  
John Harvard Scholarship - Harvard University, 1999, 2001, 2004

### TEACHING EXPERIENCE

### Swarthmore College, Swarthmore, PA, USA

#### *Instructor:*

- Developmental Psychology
- Introductory Psychology Seminar: Comparative Cognition
- Developmental Honors Seminar
- Developmental Research Practicum
- First Year Seminar in Early Social Cognition
- Research Design and Analysis

#### *Undergraduate Mentorship:*

- Honors Theses:  
Cynthia Siego 2016-2017  
Christopher Capron, Alexander Noyes (*2015 Solomon Asch Award for Most Distinguished Thesis in Psychology*), So-Yeon Shin 2014-2015  
Rachel Fresques 2013-2014  
(*2014 Solomon Asch Award for Most Distinguished Thesis in Psychology*)
- Theses:  
Sona Kumar, Jordan Sciascia (Linguistics) 2016-2017
- Cognition and Development Lab Research Assistants:  
Brianna Cox, Sona Kumar, Rongzhi Liu, Eishna Ranganathan, Jordan Sciascia, Cynthia Siego, Shilohni Sumanthiran 2016-2017  
Brianna Cox, Sona Kumar, Rongzhi Liu, Jordan Sciascia, Cynthia Siego 2015-2016  
Christopher Capron, Brianna Cox, Fatema Jivanjee, Jasmyne Kim, Wynter Lastarria, Lauren Mirzakhilili, Alexander Noyes, Jordan Sciascia, So-Yeon Shin,

Cynthia Siego, Grant Torre, Catherine Xiang	2014-2015
Christopher Capron, Kelsey Ann Huntzberry, Fatema Jivanjee, Zachary Murphy, Alexander Noyes, Averil Obee, So-Yeon Shin	2013-2014
Christopher Capron, David Fialkow, Cameron French, Wynter Lastarria, Averil Obee, So-Yeon Shin	2012-2013

- Summer Research Fellowships (\$4200)
 

Rongzhi Liu	summer 2017
Sona Kumar, Rongzhi Liu, Jordan Sciascia	summer 2016
Sona Kumar, Jordan Sciascia	summer 2015
Rebekah Gelpi, Alexander Noyes	summer 2014
Zachary Murphy, Alexander Noyes, So-Yeon Shin	summer 2013

**University of British Columbia, Vancouver, British Columbia, Canada**

*Instructor:*

- Introductory Psychology I Spring 2011
- Introductory Psychology II Spring 2011
- Infancy Fall 2010

*Undergraduate Mentorship:*

- Honors Thesis 2010-2012  
Virginia Cousineau
- Independent Study 2010-2012  
Freeman Wu
- Research Volunteers 2011-2012  
Rachelle Kay Lim, Rebecca Ferguson

**Northwestern University, Evanston, Illinois, USA**

*Co-Instructor:*

- Independent Study Spring 2010, Fall, Spring & Winter 2009
- Advanced Supervised Research Fall 2008

*Guest Lecturer:*

- Introduction to Cognitive Science Spring 2009  
*Introduction to Language and Cognition*
- Cognitive Development* Winter 2008
- Introductory Psychology Fall 2005  
*Introduction to Developmental Psychology*
- Language and Thought Spring 2004  
*Language and Cognition from A Comparative Perspective*

*Teaching Assistant:*

- Introduction to Cognitive Science Spring 2009, Spring & Winter 2008
- Introductory Psychology Fall 2005
- Language and Thought Spring 2005
- Personality Psychology Winter 2004

*Section Instructor:*

- Language and The Brain Spring 2006

*Undergraduate Mentorship:*

- Psychology Benton J. Underwood Fellowship (\$3000)  
Sally Martinez, Reina Uchino 2008, 2009
- Project on Children's Thinking Internship  
Hannah Guion, Azmina Lakhani, Sally Martinez, Rachel Ryskin, Reina Uchino  
2006-2010
- National Science Foundation Research Experience for Undergraduates  
Graduate student mentor and coordinator 2005

PROFESSIONAL  
SERVICE

**Ad-Hoc Reviewer**

*British Journal of Developmental Psychology*  
*Child Development*  
*Cognition*  
*Cognitive Development*  
*Cognitive Science*  
*Developmental Science*  
*Developmental Psychology*  
*Journal of Comparative Psychology*  
*Journal of Cognition and Development*  
*Journal of Memory and Language*  
*Language, Learning, and Development*  
*PLOS one*  
*Psychological Science*  
*Topics in Cognitive Science*

**Grant Reviewer**

*National Science Foundation, Developmental Science Learning Program, 2014, 2016*

**Conference Reviewer and Chair**

*Cognitive Science Conference, Workshop and Tutorial Chair, 2016, 2017*  
*Society of Research for Child Development*