

## Sangeet "Sunny" Khemlani, PhD student and researcher

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## Education

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### Princeton University

PhD in Cognitive Psychology  
MA in Cognitive Psychology

Princeton, NJ  
2011 (expected)  
2008

Master's thesis: **Disjunctive illusory inferences and how to eliminate them**

### Rensselaer Polytechnic Institute

BS in Psychology and Electronic Arts

Troy, NY  
2006

Psychology thesis: **A model-theoretic denotational system for spatial reasoning**

Electronic Arts thesis: **Cognitive aesthetics**

## Journal Publications

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- Khemlani, S. & Johnson-Laird, P. N. (2009). Disjunctive illusory inferences and how to eliminate them. *Memory and Cognition*, **37** (5), 615–623.
- Khemlani, S., Leslie, S.-J., & Glucksberg, S. (2009a). Generics underlie inferences from the general to the particular. Under review.
- Khemlani, S. & Moore, A. (2009). Evaluative feedback improves deductive reasoning. Under review.
- Khemlani, S., Orenes, I., & Johnson-Laird, P. N. (2009b). Negation: A theory of its meaning, use, and interpretation. Under review.
- Leslie, S.-J., Khemlani, S., & Glucksberg, S. (2009). All ducks lay eggs: The generic overgeneralization effect. Under review.
- Bucciarelli, M., Khemlani, S., & Johnson-Laird, P. N. (2008). The psychology of moral reasoning. *Judgment and Decision Making*, **3** (2), 121–139.
- Neth, H., Khemlani, S., & Gray, W. (2008). Feedback design for the control of a dynamic multitasking system: Dissociating outcome feedback from control feedback. *Human Factors*, **50** (4), 643–651.
- Sheffield, E., Kean, J., Starling, M., Andrews, J., Evans, K., & Khemlani, S. (2006). Results from the subjective testing of the hd coder at 16-96 kbps. *IEEE Transactions on Broadcasting*, **52** (2), 219–222.

## Conference Proceedings, Presentations, & Posters

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- Khemlani, S. & Johnson-Laird, P. N. (2009). Disjunctive illusory inferences. 4th London Reasoning Workshop.
- Khemlani, S., Leslie, S.-J., & Glucksberg, S. (2009a). Generics, prevalence, and default inferences. In *Proceedings of the 31st Annual Conference of the Cognitive Science Society*.
- Khemlani, S., Leslie, S.-J., & Glucksberg, S. (2009b). Implicit generics underlie inferences from the general to the particular. 50th Annual Meeting of the Psychonomic Society (Glucksberg presented).
- Leslie, S.-J., Khemlani, S., Prasada, S., & Glucksberg, S. (2009). Conceptual and linguistic distinctions between singular and plural generics. In *Proceedings of the 31st Annual Conference of the Cognitive Science Society*.

- Bucciarelli, M. & Khemlani, S. (2008). Conflicts in moral reasoning. 6th International Conference on Thinking (Khemlani presented).
- Khemlani, S. & Johnson-Laird, P. N. (2008). Illusory inferences with embedded disjunctions. In *Proceedings of the 30th Annual Conference of the Cognitive Science Society*.
- Khemlani, S., Leslie, S.-J., & Glucksberg, S. (2008a). Syllogistic reasoning with generic premises: The generic overgeneralization effect. In *Proceedings of the 30th Annual Conference of the Cognitive Science Society*.
- Khemlani, S., Leslie, S.-J., & Glucksberg, S. (2008b). Deductive reasoning with generic premises: The generic overgeneralization effect. 49th Annual Meeting of the Psychonomic Society (Glucksberg presented).
- Khemlani, S. (2007a). Investigating recursive reasoning. Cognitive Research Seminar, Princeton University.
- Khemlani, S. (2007b). Generic observations: How people collect, access, and infer generalizations. Cognitive Research Seminar, Princeton University.
- Khemlani, S. & Johnson-Laird, P. (2007a). Intuitive programming: How humans solve problems with algorithms. 29th Annual Conference of the Cognitive Science Society, Nashville, TN.
- Khemlani, S. & Johnson-Laird, P. N. (2007b). Thinking about algorithms. 29th Annual Conference of the Cognitive Science Society.
- Khemlani, S., Leslie, S.-J., Glucksberg, S., & Fernandez, P. R. (2007). Do ducks lay eggs? how people interpret generic assertions. 29th Annual Conference of the Cognitive Science Society, Nashville, TN.
- Khemlani, S. (2006). Lossy compression: Supersymbolism in connectionist architectures. Annual Computing and Philosophy Conference, Troy, NY.
- Neth, H., Khemlani, S., Oppermann, B., & Gray, W. (2006). Juggling multiple tasks: A rational analysis of multitasking in a synthetic task environment. In *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society*. San Francisco, CA.
- Bringsjord, S., Arkoudas, K., & Khemlani, S. (2005a). Poised-for learning: Natural language generation. Information Processing Technology Office, Defense Advanced Research Projects Agency.
- Bringsjord, S., Arkoudas, K., & Khemlani, S. (2005b). Poised-for learning: Natural language generation. IBM TJ Watson Research Center.
- Bringsjord, S., Khemlani, S., Arkoudas, K., McEvoy, C., Destefano, M., & Daigle, M. (2005c). Advanced synthetic characters, evil, and E. In A. E. R. Marwan Al-Akaidi, editor, *Game-On 2005, 6th International Conference on Intelligent Games and Simulation*, pages 31–39. European Simulation Society, Ghent-Zwijnaarde, Belgium.
- Bringsjord, S., Shilliday, A., Taylor, J., Arkoudas, K., & Khemlani, S. (2005d). An overview of Slate. Minds and Machines Seminar, Rensselaer Polytechnic Institute.

## Research Experience

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### **Mental Models and Reasoning Laboratory**

Graduate Student

*Princeton University*

September 2006 – present

### **Oppenheimer Laboratory**

Graduate Student

*Princeton University*

September 2006 – present

### **Rensselaer AI and Reasoning Laboratory**

Research Assistant

*Rensselaer Polytechnic Institute*

September 2004 – September 2006

### **CogWorks Laboratories**

Research Assistant

*Rensselaer Polytechnic Institute*

September 2004 – September 2006

### **NPR Laboratories**

Research Assistant

*Washington, D.C.*

June 2004 – August 2004

## Teaching Experience

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### Teaching Assistance

*Abnormal Psychology* Princeton University  
Professor Michael Litchman Fall 2009

*Psychology of Thinking* Princeton University  
Professor Philip Johnson-Laird Spring 2008

### Guest Lecturing

*Generics & Cognitive Psychology* Princeton University  
Professor Sarah-Jane Leslie Spring 2009

*Logic and AI for Intelligence Analysis* Rensselaer Polytechnic Institute  
Professor Selmer Bringsjord Spring 2006

## Awards and Honors

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Cognitive Science Society NSF Travel Award 2009  
Student Travel Award, Cognitive Science Society 2008  
Student Travel Award, Cognitive Science Society 2007  
Graduate Research Fellowship, National Science Foundation 2007  
Walker McKinney '50 Life Sciences Fellowship, Princeton University 2006  
Graduated magna cum laude, Rensselaer Polytechnic Institute 2006  
Best Paper Award, 6th International Conference on Intelligent Games and Simulation 2005  
Chi Phi Educational Trust Scholarship, Chi Phi Fraternity 2005  
Rensselaer Alumni Scholarship, Rensselaer Polytechnic Institute 2003  
Joe Martin Scholarship, Bank of America 2003

## Professional Memberships

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Association for Psychological Science  
Cognitive Science Society  
Electronic Frontier Foundation  
European Simulation Society  
International Association for Computing and Philosophy

## Service

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Princeton Department of Psychology Senior Thesis Writing Group 2009  
Chapter in *Applying to Graduate School in Psychology*, APA Books 2008  
Princeton Paid Experiments Recruitment 2008  
Princeton Department of Psychology Graduate Student Orientation Coordinator 2007  
Rensselaer Department of Arts Student Representative 2006

## References

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**Dr. Philip Johnson-Laird**

Director, Mental Models and Reasoning Lab  
Stuart Professor of Psychology  
Department of Psychology  
Princeton University

**Dr. Sam Glucksberg**

Professor of Psychology  
Department of Psychology  
Princeton University

**Dr. Selmer Bringsjord**

Chair, Department of Cognitive Science  
Director, Rensselaer AI and Reasoning Lab  
Department of Cognitive Science  
Rensselaer Polytechnic Institute

**Dr. Wayne Gray**

Director, Cognitive Science Doctoral Program  
Director, CogWorks Laboratories  
Department of Cognitive Science  
Rensselaer Polytechnic Institute

**Dr. Konstantine Arkoudas**

Research Assistant Professor  
Department of Cognitive Science  
Rensselaer Polytechnic Institute

**Dr. Hansjoerg Neth**

Post-doctoral Research Assistant  
Department of Cognitive Science  
Rensselaer Polytechnic Institute