

SANGEET KHEMLANI

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Intelligent Systems Section
Navy Center for Applied Research in Artificial Intelligence
Naval Research Laboratory

Code 5515
4555 Overlook Ave. SW
Washington, DC 20375
Last updated: **2018-07-10**

POSITIONS

- 2014- **Cognitive Scientist**
Navy Center for Applied Research in Artificial Intelligence
Naval Research Laboratory, Washington, DC
- 2011-2014 **Postdoctoral Fellow**
Navy Center for Applied Research in Artificial Intelligence
Naval Research Laboratory, Washington, DC

EDUCATION

- 2011 **PhD in Cognitive Psychology**
Department of Psychology
Princeton University, Princeton, NJ
- 2008 **MA in Cognitive Psychology**
Department of Psychology
Princeton University, Princeton, NJ
- 2006 **BS in Psychology and Electronic Arts**
School of Humanities, Arts, and Social Sciences
Rensselaer Polytechnic Institute, Troy, NY

HONORS & AWARDS

- 2015 “IngeniUS” early-career role model, Department of Defense
- 2014 Jerome and Isabella Karle Fellow, Naval Research Laboratory
- 2013 “Rising Star”, Association for Psychological Science
- 2011 National Research Council Research Fellow, National Academy of Sciences
- 2007 Graduate Research Fellow, National Science Foundation
- 2006 Walker McKinney Life Sciences Fellow, Princeton University

FUNDING

- 2019-2021 **Automating human meta-epistemic inference**
Naval Research Laboratory (Principal investigator)
- 2016-2018 **Contextual modeling and spatiotemporal reasoning for autonomous systems**
Office of Naval Research (Co-PI with D. Aha and J.G. Trafton)
- 2016-2018 **Causal inference in a computational model of human reasoning**
Naval Research Laboratory (Co-PI with P. Bello)
- 2013-2015 **Coherent and accurate status updates**
Office of Naval Research (Technical lead; PI: J.G. Trafton)
- 2011-2014 **Explanatory reasoning in cognitive robotics and human-robot interaction**
National Research Council (Principal investigator)
- 2009-2012 **Deductive and probabilistic reasoning**
National Science Foundation (Technical lead; PI: P.N. Johnson-Laird)

- in press Bucciarelli, M., Mackiewicz, R., **Khemlani, S.**, & Johnson-Laird, P. N. (in press). Simulation in children's conscious recursive reasoning. Manuscript in press at *Memory & Cognition*.
- Khemlani, S.**, Byrne, R.M.J., & Johnson-Laird, P.N. (in press). Facts and possibilities: A model-based theory of sentential reasoning. Manuscript in press at *Cognitive Science*.
- Khemlani, S.**, Wasylyshyn, C., Briggs, G., & Bello, P. (in press). Mental models and omissive causation. Manuscript in press at *Memory & Cognition*.
- 2017 Hiatt, L., Narber, C., Bekele, E., **Khemlani, S.**, & Trafton, J. G. (2017). Human modeling for human-robot collaboration. *International Journal of Robotics Research*, 36, 580–596.
- Khemlani, S.**, & Johnson-Laird, P.N. (2017). Illusions in reasoning. *Minds & Machines*, 27, 11–35.
- 2016 Bucciarelli, M., Mackiewicz, R., **Khemlani, S.**, & Johnson-Laird, P. N. (2016). Children's creation of algorithms: simulations and gestures. *Journal of Cognitive Psychology*, 28, 297-318.
- 2015 Johnson-Laird, P. N., **Khemlani, S.**, & Goodwin, G.P. (2015). Logic, probability, and human reasoning. *Trends in Cognitive Sciences*, 19, 201-214.
- Johnson-Laird, P. N., **Khemlani, S.**, & Goodwin, G.P. (2015). Response to Baratgin et al.: Mental models integrate probability and deduction. *Trends in Cognitive Sciences*, 19, 548-549.
- Khemlani, S.**, Harrison, A. M., & Trafton, J. G. (2015). Episodes, events, and models. *Frontiers in Human Neuroscience*, 9, 590, 1-13.
- Khemlani, S.**, Lotstein, M., & Johnson-Laird, P. N. (2015). Naive probability: Model-based estimates of unique events. *Cognitive Science*, 39, 1216–1258.
- Khemlani, S.**, Lotstein, M., Trafton, J.G., & Johnson-Laird, P. N. (2015). Immediate inferences from quantified assertions. *Quarterly Journal of Experimental Psychology*, 68, 2073–2096.
- 2014 **Khemlani, S.**, Barbey, A., & Johnson-Laird, P. N. (2014). Causal reasoning with mental models. *Frontiers in Human Neuroscience*, 8, 849, 1-15.
- Khemlani, S.**, Orenes, I., & Johnson-Laird, P. N. (2014). The negation of conjunctions, conditionals, and disjunctions. *Acta Psychologica*, 151, 1-7.
- Ragni, M., **Khemlani, S.**, & Johnson-Laird, P. N. (2014). The evaluation of the consistency of quantified assertions. *Memory & Cognition*, 42, 53-66.
- Sussman, A., **Khemlani, S.**, & Oppenheimer, D. (2014). Latent scope bias in categorization. *Journal of Experimental Social Psychology*, 52, 1-8.
- 2013 **Khemlani, S.**, & Johnson-Laird, P. N. (2013). Cognitive changes from explanations. *Journal of Cognitive Psychology*, 25, 139-146.
- Khemlani, S.**, & Johnson-Laird, P. N. (2013). The processes of inference. *Argument & Computation*, 4, 1-20.
- Khemlani, S.**, Mackiewicz, R., Bucciarelli, M., & Johnson-Laird, P. N. (2013). Kinematic mental simulations in abduction and deduction. *Proceedings of the National Academy of Sciences*, 110, 16766-16771.
- Prasada, S., **Khemlani, S.**, Leslie, S.-J., & Glucksberg, S. (2013). Conceptual distinctions amongst generics. *Cognition*, 126, 405-422.
- Trafton, J. G., Hiatt, L.M., Harrison, A. M., Tamborello, F.P., II, **Khemlani, S.**, & Schultz, A.C. (2013). ACT-R/E: An embodied cognitive architecture for human-robot interaction. *Journal of Human Robot Interaction*, 2, 30-55.
- 2012 Hiatt, L.M., **Khemlani, S.**, & Trafton, J. G. (2012). An explanatory reasoning framework for embodied agents. *Biologically Inspired Cognitive Architectures*, 1, 23-31.
- Khemlani, S.** & Johnson-Laird, P. N. (2012). Hidden conflicts: Explanations make inconsistencies harder to detect. *Acta Psychologica*, 139, 486–491.
- Khemlani, S.**, & Johnson-Laird, P. N. (2012). Theories of the syllogism: A meta-analysis. *Psychological Bulletin*, 138, 427-457.
- Khemlani, S.**, Leslie, S.-J., & Glucksberg, S. (2012). Inferences about members of kinds: The generics hypothesis. *Language and Cognitive Processes*, 27, 887–900.
- Khemlani, S.**, Lotstein, M., & Johnson-Laird, P. N. (2012). The probabilities of unique events. *PLOS ONE*, 7, e45975.
- Khemlani, S.**, Orenes, I., & Johnson-Laird, P. N. (2012). Negation: A theory of its meaning, representation, and use. *Journal of Cognitive Psychology*, 24, 541–559.
- 2011 **Khemlani, S.**, & Johnson-Laird, P. N. (2011). The need to explain. *Quarterly Journal of Experimental Psychology*, 64, 2276–88.

- Khemlani, S.**, & Oppenheimer, D. (2011). When one model casts doubt on another: A levels-of-analysis approach to causal discounting. *Psychological Bulletin*, 137, 195-210.
- Khemlani, S.**, Sussman, A., & Oppenheimer, D. (2011). *Harry Potter* and the sorcerer's scope: Latent scope biases in explanatory reasoning. *Memory & Cognition*, 39, 527-535.
- Leslie, S.-J., **Khemlani, S.**, & Glucksberg, S. (2011). Do all ducks lay eggs? The generic overgeneralization effect. *Journal of Memory and Language*, 65, 15-31.
- 2010 **Khemlani, S.**, & Goodwin, G. (2010). The function and representation of concepts. *Behavioral and Brain Sciences*, 33, 216-217.
- Khemlani, S.**, Lee, N.Y.L., & Bucciarelli, M. (2010). Determinants of cognitive variability. *Behavioral and Brain Sciences*, 33, 37-38.
- 2009 **Khemlani, S.**, & Johnson-Laird, P. N. (2009). Disjunctive illusory inferences and how to eliminate them. *Memory & Cognition*, 37, 615-623.
- 2008 Bucciarelli, M., **Khemlani, S.**, & Johnson-Laird, P. N. (2008). The psychology of moral reasoning. *Judgment and Decision Making*, 3, 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, 643-651.

- 2018 Bekele, E., Lawson, W., Horne, Z., & **Khemlani, S.** (2018). Implementing a robust explanatory bias in a person re-identification network. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2018)*. Salt Lake City, UT: IEEE.
- Bekele, E., Lawson, W., Horne, Z., & **Khemlani, S.** (2018). Human-level explanatory biases for person re-identification. In M. de Graaf, B. Malle, A. Dragan, & T. Ziemke (Eds.), *Proceedings of the Workshop of Explainable Robotic Systems*. Chicago, IL: ACM.
- Horne, Z., & **Khemlani, S.** (2018). Conceptual constraints on generating explanations. In C. Kalish, M. Rau, T. Rogers, & J. Zhu (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Korman, J., & **Khemlani, S.** (2018). How people detect incomplete explanations. In C. Kalish, M. Rau, T. Rogers, & J. Zhu (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Korman, J., & **Khemlani, S.** (2018). These boots are made for walking: Teleological generalizations from principled connections. In C. Kalish, M. Rau, T. Rogers, & J. Zhu (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Ragni, M., Riesterer, N., **Khemlani, S.**, & Johnson-Laird, P.N. (2018). Individuals become more logical without feedback. In C. Kalish, M. Rau, T. Rogers, & J. Zhu (Eds.), *Proceedings of the 40th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- 2017 Bello, P., Wasylyshyn, C., Briggs, G., & **Khemlani, S.** (2017). Contrasts in reasoning about omissions. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, Hinterecker, T., & Johnson-Laird, P.N. (2017). The provenance of modal inference. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Trafton, J.G., Zish, K., McCurry, M., Hiatt, L., & **Khemlani, S.** (2017). A cognitive model of social influence. In G. Gunzelmann, A. Howes, T. Tenbrink, & E. Davelaar (Eds.), *Proceedings of the 39th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- 2016 **Khemlani, S.** (2016). Automating human inference. In U. Furbach and C. Shon (Eds.), *Proceedings of the 2nd IJCAI Workshop on Bridging the Gap between Human and Automated Reasoning* (pp. 1-4). CEUR Workshop Proceedings.
- Khemlani, S.**, & Johnson-Laird, P. N. (2016). How people differ in syllogistic reasoning. In A. Papafragou, D. Grodner, D. Mirman, and J. Trueswell (Eds.), *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

- 2015 Bello, P., & **Khemlani, S.** (2015). A model-based theory of omissive causation. In R. Dale, C. Jennings, P. Maglio, T. Matlock, D. Noelle, A. Warlaumont, & J. Yoshimi (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, Goodwin, G.P., & Johnson-Laird, P.N. (2015). Causal relations from kinematic simulations. In R. Dale, C. Jennings, P. Maglio, T. Matlock, D. Noelle, A. Warlaumont, & J. Yoshimi (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, & Johnson-Laird, P.N. (2015). Domino effects in causal contradictions. In R. Dale, C. Jennings, P. Maglio, T. Matlock, D. Noelle, A. Warlaumont, & J. Yoshimi (Eds.), *Proceedings of the 37th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- 2014 **Khemlani, S.**, Lotstein, M., & Johnson-Laird, P. N. (2014). A mental model theory of set membership. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, & Trafton, J. G. (2014). Percentile analysis for goodness-of-fit comparisons of models to data. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- 2013 **Khemlani, S.**, Gartenberg, D., Park, K.H., & Trafton, J.G. (2013). Uncertainty can increase explanatory credibility. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.** & Johnson-Laird, P. N. (2013). Mental simulation and the construction of informal algorithms. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, Trafton, J. G., & Johnson-Laird, P. N. (2013). Deduction as stochastic simulation. In R. West & T. Stewart (Eds.), *Proceedings of the 12th International Conference on Cognitive Modeling*.
- 2012 **Khemlani, S.** & Moore, A. (2012). Evaluative feedback improves deductive reasoning. In N. Miyake, D. Peebles, & R. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, Orenes, I., & Johnson-Laird, P.N. (2012). Negating compound sentences. In N. Miyake, D. Peebles, & R. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, & Trafton, J. G. (2012). mReactr: A computational theory of deductive reasoning. In N. Miyake, D. Peebles, & R. Cooper (Eds.), *Proceedings of the 34th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Khemlani, S.**, Trafton, J. G., Lotstein, M., & Johnson-Laird, P. N. (2012). A process model of immediate inferences. In N. Rußwinkel, U. Drewitz, & H. van Rijn (Eds.), *Proceedings of the 11th International Conference on Cognitive Modeling*. Berlin, Germany: University of Groningen.
- 2011 **Khemlani, S.**, Lotstein, M., & Johnson-Laird, P. N. (2011). What makes intensional estimates of probabilities inconsistent? In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 1906-1911). Austin, TX: Cognitive Science Society.
- 2010 **Khemlani, S.** & Johnson-Laird, P.N. (2010). Explanations make inconsistencies harder to detect. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 2900-2905). Austin, TX: Cognitive Science Society.
- Kunze, N., **Khemlani, S.**, Lotstein, M., & Johnson-Laird, P.N. (2010). Illusions of consistency in quantified assertions. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 2028-2032). Austin, TX: Cognitive Science Society.
- 2009 Arkoudas, K., Bringsjord, S., & **Khemlani, S.** (2009). Qualitative spatial reasoning via 3-valued heterogeneous logic. In J.L.G. Dietz (Ed.), *Proceedings of the International Conference on Knowledge Engineering and Ontology Development 2009* (pp. 80-87). Porto, Portugal: INSTICC Press.

REFEREED
CONFERENCE
PAPERS
(CONT'D)

- Khemlani, S.**, Leslie, S.-J., & Glucksberg, S. (2009). Generics, prevalence, and default inferences. In N. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 443-448). Austin, TX: Cognitive Science Society.
- Leslie, S.-J., **Khemlani, S.**, Prasada, S., & Glucksberg, S. (2009). Conceptual and linguistic distinctions between singular and plural generics. In N. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 479-484). Austin, TX: Cognitive Science Society.
- 2008 **Khemlani, S.** & Johnson-Laird, P.N. (2008). Illusory inferences with embedded disjunctions. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 2128-2133). Austin, TX: Cognitive Science Society.
- Khemlani, S.**, Leslie, S.-J., & Glucksberg, S. (2008). Syllogistic reasoning with generic premises: The generic overgeneralization effect. In B.C. Love, K. McRae, & V.M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 619-624). Austin, TX: Cognitive Science Society.
- 2007 **Khemlani, S.**, Leslie, S.-J., Glucksberg, S., & Fernandez, P. R. (2007). Do ducks lay eggs? How people interpret generic assertions. In D. McNamara & J.G. Trafton (Eds.), *Proceedings of the 29th Annual Conference of the Cognitive Science Society* (pp. 395-400). Mahwah, NJ: Erlbaum.
- 2006 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*. Santa Monica, CA: Human Factors and Ergonomics Society.
- 2005 Bringsjord, S., **Khemlani, S.**, Arkoudas, K., McEvoy, C., Destefano, M., & Daigle, M. (2005). Advanced synthetic characters, evil, and E. In A.E.R. Marwan Al-Akaidi (Ed.), *Game-On 2005, 6th International Conference on Intelligent Games and Simulation*. Ghent-Zwijnaarde, Belgium: European Simulation Society.

BOOK
CHAPTERS

-
- forthcoming **Khemlani, S.** (forthcoming). Psychological theories of syllogistic reasoning. In M. Knauff and W. Spohn (Eds.), *Handbook of Rationality*.
- 2018 **Khemlani, S.** (2018). Reasoning. In S. Thompson-Schill (Ed.), *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience*. Wiley & Sons.
- 2017 Johnson-Laird, P. N., Goodwin, G.P., & **Khemlani, S.** (2017). Mental models and reasoning. In V. Thompson and L. Ball (Eds.), *International Handbook of Thinking & Reasoning*. Routledge.
- Johnson-Laird, P. N. & **Khemlani, S.** (2017). Mental models and causation. In M. Waldmann (Ed.), *Oxford Handbook of Causal Reasoning*. London, UK: Oxford University Press.
- 2014 Johnson-Laird, P. N., & **Khemlani, S.** (2014). Toward a unified theory of reasoning. In B. Ross (Ed.), *The Psychology of Learning and Motivation* (pp. 1-42). Academic Press.

SOFTWARE

-
- 2016 **Khemlani, S.** (2018). nodus-ponens: A full-stack framework for running high-level reasoning and cognitive science experiments in Node.js (version 1.3.4). Retrieved from <https://www.npmjs.com/package/nodus-ponens>.
- Khemlani, S.**, & Johnson-Laird, P.N. (2018). mReasoner: A unified computational implementation of mental model theory of thinking and reasoning (version 0.9.6525). Retrieved from <http://mentalmodels.princeton.edu/models/mreasoner/>.
- Kreke, J.G., **Khemlani, S.**, & Trafton, J.G. (2016). gofMC: Benchmarking and rescaling R^2 using noise percentile analysis (version 1.1.2). Retrieved from <https://cran.r-project.org/package=gofMC>.

INVITED TALKS

-
- 2018 **Duke University**, *Center for Cognitive Neuroscience*
George Mason University, *Department of Psychology*
- 2017 **Harvard University**, *Department of Psychology*
- 2016 **Duke University**, *Center for Cognitive Neuroscience*
New York University, *NYU ConCats, Department of Psychology*
University of Quebec at Montreal, *Summer School in Cognitive Sciences*
- 2015 **New York University**, *NYU ConCats, Department of Psychology*
- 2014 **University of Edinburgh**, *Department of Psychology*
Oxford University, *St. Catherine's College*
Institute for Human and Machine Cognition, *Ocala Afternoon Lecture Series*
- 2013 **University of Freiburg**, *Center for Cognitive Science*
Washington University in St. Louis, *Philosophy-Neuroscience-Psychology Seminar*
- 2012 **Brown University**, *Department of Cognitive, Linguistic, and Psychological Sciences*
- 2011 **Naval Research Laboratory**, *Navy Center for Applied Research in Artificial Intelligence*
- 2010 **New York University**, *NYU ConCats, Department of Psychology*
-

RECENT CONFERENCE TALKS

- 2018 Bekele, E., Lawson, W., Horne, Z., & **Khemlani, S.** (2018). Implementing a robust explanatory bias in a person re-identification network. Talk presented (by Bekele) at Computer Vision and Pattern Recognition 2018, Salt Lake City, UT.
- Bekele, E., Lawson, W., Horne, Z., & **Khemlani, S.** (2018). Human-level explanatory biases for person re-identification. Talk presented (by Bekele) at Human-Robotic Interaction 2018, Chicago, IL.
- Byrne, R., Goodwin, G., Johnson-Laird, P.N., **Khemlani, S.**, Ragni, M., & Quelhas, C. (2018). What conditionals mean. Talk presented (by Johnson-Laird) at *London Reasoning Workshop*, London, UK.
- Korman, J., & **Khemlani, S.** (2018). These boots are made for walking: Teleological generalizations from principled connections. Poster presented (by Korman) at Society for Philosophy and Psychology, Ann Arbor, MI.
- 2017 Horne, Z., & **Khemlani, S.** (2017). Principled connections underlie the inherence bias in explanatory reasoning. Talk presented at *London Reasoning Workshop*, London, UK.
- Khemlani, S.**, Hinterecker, T., & Johnson-Laird, P.N. (2017). The provenance of modal inference. Talk presented at *Advances in Cognitive Systems*, Troy, NY, and at *Cognitive Science Society*, London, UK.
- Korman, J., & **Khemlani, S.** (2017). How people detect when an explanation is incomplete. Talk presented (by Korman) at *London Reasoning Workshop*, London, UK.
- 2016 **Khemlani, S.**, Harrison, A., & Trafton, J.G. (2016). An embodied architecture for thinking and reasoning about time. Talk presented at *Cognitive Science Society*, Philadelphia, PA.
- Khemlani, S.**, & Johnson-Laird, P.N. (2016). How people differ in syllogistic reasoning. Talk presented at *Cognitive Science Society*, Philadelphia, PA; and at the Meeting in Memory of Vittorio Girotto, London, UK.
- 2015 **Khemlani, S.**, Goodwin, G., & Johnson-Laird, P.N. (2015). Causal relations form kinematic simulations. Talk presented at *London Reasoning Workshop*, London, UK and *Cognitive Science Society*, Pasadena, California.
- 2014 **Khemlani, S.**, Lotstein, M., & Johnson-Laird, P.N. (2014). The conditional probabilities of unique events. Talk presented at *London Reasoning Workshop*, London, UK.
- Khemlani, S.**, & Trafton, J.G. (2014). Percentile analysis for goodness-of-fit comparisons of models to data. Talk presented at *Cognitive Science Society*, Quebec City, Canada.
- 2013 **Khemlani, S.**, Trafton, J.G., & Johnson-Laird, P.N. (2013). Deduction as stochastic simulation. Talk presented at *London Reasoning Workshop*, London, UK and *International Conference on Cognitive Modeling*, Ottawa, Canada.
- 2012 **Khemlani, S.**, Orenes, I., & Johnson-Laird, P.N. (2012). Negating compound sentences. Talk presented at *Cognitive Science Society*, Sapporo, Japan.

RECENT
CONFERENCE
TALKS (CONT'D)

- Khemlani, S.**, & Johnson-Laird, P. N. (2012). mReasoner: A unified computational model of reasoning. Talk presented at *International Conference on Thinking*, London, UK.
- 2011 **Khemlani, S.** (2011). Explanatory reasoning. Talk presented at *Princeton Area Alumni Association*, Princeton, NJ.
- 2010 **Khemlani, S.** & Johnson-Laird, P. N., (2010). Explanations make inconsistencies harder to detect. Talk presented at *Cognitive Science Society*, Portland, OR.
- 2009 **Khemlani, S.**, Glucksberg, S., & Leslie, S.-J. (2009). Implicit generics underlie inferences from the general to the particular. Talk presented (by Glucksberg) at *Psychonomic Society*, Boston, MA.
- 2008 Bucciarelli, M. & **Khemlani, S.** (2008). Conflicts in moral reasoning. Talk presented at *International Conference on Thinking*, Venice, Italy.
- Khemlani, S.**, Leslie, S.-J., & Glucksberg, S. (2008). Deductive reasoning with generic premises: The generic overgeneralization effect. Talk presented at *Psychonomic Society*, Chicago, IL.

MENTORING & ADVISING

Postdoctoral research

- 2017-2018 Zachary Horne, Assistant Professor at Arizona State University
2016-2018 Joanna Korman, Senior Social Behavior Scientist at the MITRE Corporation

High school interns

- 2017, 2018 Nikhil Khosla, Undergraduate student at University of Michigan
-

RECENT PROFESSIONAL ACTIVITIES

- 2018 Organizer, FAIM Workshop on Bridging the Gap between Human and Automated Reasoning Chair, NRC/ASEE Postdoctoral Research Publication Award Directorate Panel
2016-2018 Organizer, NCARAI Seminar Series
2016 Program committee, Meeting in Honor of Vittorio Girotto
Workshop organizer, 37th Annual Conference of the Cognitive Science Society
2015 Symposium organizer, 4th European Conference on Cognitive Science
Program committee, 37th Annual Conference of the Cognitive Science Society
2014 Member abstracts co-chair, 36th Annual Conference of the Cognitive Science Society
2010-2011 Leader, Princeton Department of Psychology Senior Thesis Writing Group
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EDITORIAL & REVIEW SERVICES

Editorial board membership (journals):

Journal of Cognitive Psychology

Ad-hoc reviewer (conferences):

Architectures and Mechanisms for Language Processing
Cognitive Science Society
International Joint Conference on Artificial Intelligence

Ad-hoc reviewer (journals):

Acta Psychologica · *Advances in Cognitive Psychology* · *Argument & Computation* · *Child Development* · *Cognition* · *Cognitive Science* · *Cognitive Psychology* · *Experimental Psychology* · *Frontiers in Human Neuroscience* · *Journal of Cognitive Psychology* · *Journal of Cognitive Science* · *Journal of Experimental Psychology: General* · *Journal of Experimental Psychology: Language, Memory, and Cognition* · *Journal of Semantics* · *Journal of Memory & Language* · *Inquiry* · *Memory & Cognition* · *PLOS ONE* · *Proceedings of the National Academy of Sciences* · *Psychological Bulletin* · *Psychological Review* · *Psychonomic Bulletin & Review* · *Quarterly Journal of Experimental Psychology* · *Thinking & Reasoning* · *Sage OPEN*