

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: **2018-10-22**

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 Distinguished Scholar Fellowship, Naval Research Laboratory
 - 2013 “Rising Star”, Association for Psychological Science
 - 2011 National Research Council Research Fellowship, National Academy of Sciences
 - 2007 Graduate Research Fellowship, National Science Foundation
 - 2006 Walker McKinney Life Sciences Fellowship, 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

- 2018- Laura Kelly, NRC Postdoctoral Research Fellow
- 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
-

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