*Curriculum Vitae*

# Robert V. Lindsey

University of Colorado at Boulder
Department of Computer Science
College of Engineering and Applied Science
Boulder, CO 80309-0430 USA

Email: robert.lindsey@colorado.edu
Homepage: http://www.rob-lindsey.com
Citizenship: United States

## Education

Ph.D. University of Colorado at Boulder, Computer Science, expected May 2014

B.S. Rensselaer Polytechnic Institute, Computer Science and Philosophy, *Summa Cum Laude*, 2008

## Academic Awards

Cognitive Science Society Computational Modeling Prize, 2013

Ralph J. Slutz Student Excellence Award, University of Colorado, 2013

Neural Information Processing Systems travel award, 2013

NSF Graduate Research Fellow, 2010–2013

Temporal Dynamics of Learning Center, Trainee Fellowship Award, 2010, 2011, 2013

Engineering Excellence Fund award, University of Colorado, 2010

Dean's Graduate Assistantship, University of Colorado, 2008–2009

Dean's Outstanding Merit Scholarship, University of Colorado, 2008–2009

University Fellowship, University of Colorado, 2008–2009

Graduate Student Research and Community Development Award, University of Colorado, 2009

NSF Graduate Research Fellowship Program Honorable Mention, 2009

Academic citation for excellence in Capstone Experience in Philosophy, Rensselaer Polytechnic Institute, 2008

Upsilon Pi Epsilon (computer science honor society), Rensselaer Polytechnic Institute, 2007–2008

Undergraduate Research Award in Cognitive Science, Rensselaer Polytechnic Institute, 2008

Dean's List, Rensselaer Polytechnic Institute, 2005–2008

NSF Research Experiences for Undergraduates, University of Oklahoma, 2007

Leadership Award, Rensselaer Polytechnic Institute, 2005–2008

President's Award, Rensselaer Polytechnic Institute, 2005

## Professional Experience

Founder and CEO of Boulder Analytics LLC, 2012–

Research Assistant to Prof. Michael Mozer, University of Colorado, 2008–

Researcher, J.D. Power and Associates, Web Intelligence Research Division, 2010

Grader, CSCI 4446/5446: Chaotic Dynamics, University of Colorado, 2010

Software contractor, 2008

Undergraduate Researcher, Symbiotic Computing Laboratory, University of Oklahoma, 2007

Undergraduate Researcher, CogWorks Laboratory, Rensselaer Polytechnic Institute, 2005–2008

## Professional Activities

Co-organizer of the Neural Information Processing Systems workshop on Personalizing Education with Machine Learning, 2013

Temporal Dynamics of Learning Center Trainee Committee member, 2009–2012

Teaching Assistant, Temporal Dynamics of Learning Center Trainee Boot Camp, 2009

Session chair, Evaluating Judgments and Meaning, 30th Annual Meeting of the Cognitive Science Society, 2008

President of the New York Eta Chapter of Upsilon Pi Epsilon, 2007–2008

Member of the Association for Computing Machinery, 2007–2008

Member of Rensselaer Polytechnic Institute's Minds and Machines Program, 2005–2008

Occasional reviewer for *Cognitive Science* and the *Annual Meeting of the Cognitive Science Society*

## Publications

Khajah, M., Wing, R. M., Lindsey, R. V., & Mozer, M. C. Incorporating latent factors into knowledge tracing to predict individual differences in learning. Submitted for publication.

Lindsey, R., Mozer, M. C., & Pashler, H. Predicting Individual Differences in Student Learning via Collaborative Filtering. Submitted for publication.

Mozer, M. C., Pashler, H., Lindsey, R., & Jones, J. Efficient training of visual search via attentional highlighting. Submitted for publication.

Lindsey, R., Polsdofer, E., Mozer, M.C., Kang, S. H. K., & Pashler, H. Long-term recency is nothing more than ordinary forgetting. Submitted for publication.

Kang, S. H. K., Lindsey, R., Mozer, M. C., & Pashler, H. (in press). Retrieval practice over the long term: Should spacing be expanding or equal-interval? Psychonomic Bulletin & Review.

Lindsey, R., Shroyer, J. D., Pashler, H., & Mozer, M. C. (2014). Improving student's long-term knowledge retention with personalized review. Psychological Science, doi: 10.1177/0956797613504302.

Khajah, M., Lindsey, R., & Mozer, M. C. (2014). Maximizing students' retention via spaced review: Practical guidance from computational models of memory. Topics in Cognitive Science, 6, 157-169.

Lindsey, R., Mozer, M. C., Huggins, W. J., & Pashler, H. (2013). Optimizing instructional policies. In C.J.C. Burges et al. (Eds.), Advances in Neural Information Processing Systems 26. La Jolla, CA: NIPS Foundation.

Khajah, M., Lindsey, R., & Mozer, M. C. (2013). Maximizing students' retention via spaced review: Practical guidance from computational models of memory. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), Proceedings of the 35th Annual Conference of the Cognitive Science Society (pp. 758-763). Austin, TX: Cognitive Science Society.

Lindsey, R., Headden, W. P., Stipicevic, M. J. (2012). A Phrase-Discovering Topic Model Using Pitman-Yor Processes. Empirical Methods in Natural Language Processing, 2012.

Mozer, M. C., Pashler, H., Wilder, M., Lindsey, R., Jones, M. C., & Jones, M. N. (2010). Decontaminating human judgments to remove sequential dependencies. In J. Lafferty, C. K. I. Williams, J. Shawe-Taylor, R. S. Zemel, & A. Culota (Eds.), Advances in Neural Information Processing Systems 23 (pp. 1705-1713). La Jolla, CA: NIPS Foundation.

Lindsey, R., Lewis, O., Pashler, H., & Mozer, M. C. (2010). Predicting students' retention of facts from feedback during training. In S. Ohlsson & R. Catrambone (Eds.), Proceedings of the 32nd Annual Conference of the Cognitive Science Society. Austin, TX: Cognitive Science Society.

Mozer, M. C., Pashler, H., Cepeda, N., Lindsey, R., & Vul, E. (2009). Predicting the optimal spacing of study: A multiscale context model of memory. In Y. Bengio, D. Schuurmans, J. Lafferty, C.K.I. Williams, & A. Culotta (Eds.), Advances in Neural Information Processing Systems 22 (pp. 1321–1329). La Jolla, CA: NIPS Foundation.

Lindsey, R., Mozer, M., Cepeda, N. J., & Pashler, H. (2009). Optimizing Memory Retention with Cognitive Models. In A. Howes, D. Peebles, R. Cooper (Eds.), 9th International Conference on Cognitive Modeling, Manchester, UK.

Lindsey, R., Stipicevic, M., Veksler, V. D., & Gray, W. D. (2008). Best Path Length on a Semantic Self-Organizing Map. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), Proceedings of the 30th Annual Conference of the Cognitive Science Society (pp. 481-487). Austin, TX: Cognitive Science Society.

Lindsey, R., Veksler, V. D., Grintsvayg, A., & Gray, W. D. (2007). Effects of Corpus Selection on Measuring Semantic Relatedness. Proceedings of the 8th International Conference on Cognitive Modeling (pp. 279–284), Ann Arbor, MI.

Grintsvayg, A., Veksler, V. D., Lindsey, R., & Gray, W. D. (2007). Vector Generation from an Explicitly-defined Multidimensional Space. Proceedings of the 8th International Conference on Cognitive Modeling (pp. 231–232), Ann Arbor, MI.

Veksler, V. D., Grintsvayg, A., Lindsey, R., & Gray, W. D. (2007). A proxy for all your semantic needs. Proceedings of the 29th Annual Cognitive Science Society (pp. 1878). Austin, TX: Cognitive Science Society.