

01.08.16

DAVID W. VINSON

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EDUCATION

- 2012-17 Ph.D. University of California, Merced. Cognitive and Information Sciences
Advisor: Rick Dale
- 2010-12 M.S. Illinois State University, Psychology: Cognitive & Behavioral Sciences group
Advisor: J. Scott Jordan
- 2006-10 B.S. Illinois State University, Psychology & Philosophy - *cum laude*

FELLOWSHIP & AWARDS

- Spring 2017 *Dean's Dissertation fellowship (\$18,576.68)*
- 2015-16 *IBM PhD. Fellowship (\$30,000)*
- 2014 *Koostama, Summer Data Science Fellow (\$2,500)*
- 2014 *Grand Prize, Yelp Challenge (\$6,500)*

TECHNICAL PACKAGES

Davis, J. D. & **Vinson, D.W.** (submitted). cm SCU: A Count-Min-Sketch with Conservative Update implementation for R. *R package version 1.0*

JOURNAL PUBLICATIONS

- Vinson, D.W.**, Shih, S., Dale, R. (in prog). Lexical effects on keystroke-level dynamics reflect word predictability. *Cognition*
- Vinson, D. W.**, Dale, R., & Jones, M. N. (submitted). Decision contamination in the wild: Sequential dependencies in online review ratings. *Psychological Science*
- Vinson, D.W.**, Matlock, T., Zwaan, R., & Dale, R. (resubmitted). Implied motion language can influence visual spatial memory. *Memory and Cognition*.
- Vinson, D. W.**, Davis, J. K., Sindi, S. S., & Dale, R. (2016). Efficient n-gram analysis with cm SCU. *Behavior Research Methods*. doi: 10.3758/s13428-016-0766-5
- Vinson, D.W.**, Abney, D.H., Amso, D., Anderson, M. L., Chemero, T., Cutting, J.E., Dale, R., Richardson, D., Feldman, L., Freeman, J., Friston, K., Gallagher, S., Jordan, J.S., Mudrik, L., Ondobaka, S., Shams, L., Shiffrar, M., & Spivey, M. (in press). Perception, as You Make It. Commentary on C. Firestone & B. Scholl's "Cognition does not affect perception: Evaluating the evidence for 'top-down' effects". *Behavioral and Brain Sciences*.

- Jordan, J.S., & **Vinson, D.W.** (2016). Conflicts everywhere! Perceptions, actions, and cognition all entail memory and reflect conflict. Commentary on E. Morsella's "Homing in on Consciousness in the Nervous System: An Action-Based Synthesis". *Behavioral and Brain Sciences*. *Behavioral and Brain Sciences*.
- Vinson, D.W.**, Jordan, J.S., & Hund, A. M. (2015). Perceptually Walking in Another's Shoes: Goals and Memories Constrain Spatial Perception. *Psychological Research*. 79(5), 1-9. doi: 10.1007/s00426-015-0714-5
- Yoshimi J., & **Vinson D. W.** (2015). Extending Gurwitsch's Field Theory of Consciousness. *Consciousness and Cognition*. 34, 104-123.
- Abney, D.H., McBride, D.M., Conte, A., & **Vinson, D.W.** (2015). Response dynamics in prospective memory: Velocity profiles reflect cue focality. *Psychonomic Bulletin & Review*. 22, 1020-1028. doi: 10.3758/s13423-014-0771-6.
- Vinson, D.W.**, Abney, D.H., Dale, R., & Matlock, T. (2014) High-level context effects on spatial displacement: the effects of body orientation on language and memory. *Frontiers in Psychology*. 5:637. doi:10.3389/fpsyg.2014.00637
- Dale, R., & **Vinson, D.W.** (2013). The Observer's Observer's Paradox. *Journal Of Experimental And Theoretical Artificial Intelligence*, 25(3), 303-322.
- Jordan, J.S., & **Vinson, D.W.** (2012). After nature: On bodies, consciousness, and causality. *Journal of Consciousness Studies*, 19, 229-250.
- Redding, G. M., & **Vinson, D. W.** (2010). Virtual and drawing structures for the Müller-Lyer illusions. *Attention, Perception and Psychophysics*, 72(5), 1350-1366.

CHAPTERS

- Vinson, D.W.**, & Dale, R. (in press). Social structure relates to linguistic information density. Chapter to appear in Jones, M. N. (Ed.). *Big Data in Cognitive Science: From Methods to Insights*. Psychology Press: Taylor & Francis. Currently under contract.
- Vinson, D. W.**, Dale, R., Tabatabaeian, M, & Duran, N.D. (2015). Seeing and believing: Social influences on language processing. In *Attention and Vision in Language Processing* (pp. 197-213). Springer India.

CONFERENCE PROCEEDINGS

- Vinson, D.W.**, Dale, R., & Jones, M. (2016). Decision contamination in the wild: Sequential Dependencies in Yelp review ratings. In D. Grodner, D. Mirman, A. Papafragou, J. Trueswell, J. Nock, S. Arunachalam, S. Christie, & C. Norris (Eds.). *Proceedings of the 38th Annual Meeting of the Cognitive Science Society (pp.)*. Austin, TX: Cognitive Science Society.

- Vinson, D.W.**, Jordan, J.S., & Hund, A. M. (2015). Spatial Perception is Continuously Constrained by Goals and Memories. In R. Dale, C. Jennings, P. Maglio, T. Matlock, D. Noelle & J. Yoshimi (Eds.). *Proceedings of the 37th Annual Meeting of the Cognitive Science Society* (pp. 2493-2498). Austin, TX: Cognitive Science Society.
- Vinson, D.W.**, & Dale, R. (2014). An exploration of semantic tendencies in review ratings. In *Science and Information Conference (SAI)*, (pp.803-809). IEEE. doi: 10.1109/SAI.2014.6918278
- Vinson, D.W.**, & Dale, R. (2014). Valence weakly constrains the information density of messages. In P. Bello, M. Guarini, M. McShane & B. Scassellati (Eds.) *Proceedings of the 36th Annual Meeting of the Cognitive Science Society* (pp. 1682-1687). Austin, TX: Cognitive Science Society.

CONFERENCE ABSTRACTS

- Vinson, D.W.** (2016, Nov). Using complicated n-gram smoothing algorithms efficiently in R. *Proceedings of the 46th annual meeting of the Society for Computers in Psychology, Boston, MA, USA.*
- Feldman, L.B.**, & Vinson, D.W., & Dale, R. (2016, Nov). Production of morphologically complex words as revealed by a typing task: Keystroke dynamics on the (same) stem change with whole word frequency from affixation. *Proceedings of the 57th annual meeting of the Psychonomics Society. Boston, Massachusetts, USA.*
- Vinson, D.W.**, Dale, R., & Jones, M. (2016, June). Decision contamination in the wild: Sequential Dependencies in Yelp review ratings. In *Proceedings of the 26th Annual Meeting of the Canadian Society for Brain Behavior and Cognitive Science. Ottawa, Canada.*
- Vinson, D.W.**, Davis, J., Sindi, S., & Dale., R. (2015, Nov). Echoes of social and cognitive constraints on language use in a large naturally occurring data set. *Proceedings of the 45th annual meeting of the Society for Computers in Psychology, Chicago, Illinois, USA.*
- Davis, J., **Vinson, D.W.**, Sindi, S., & Dale., R. (2015, Nov). The transformative value of high-performance computing to big data research in cognitive science. *Proceedings of the 45th annual meeting of the Society for Computers in Psychology, Chicago, Illinois, USA.*
- Vinson, D.W.**, & Dale., R. (2015, Nov). Message Valence Relates to Language Structure in Online Reviews. *Proceedings of the 56th annual meeting of the Psychonomics Society. Chicago, Illinois, USA.*
- Vinson, D.W.**, & Dale, R. (2015, July). Communication in Communities: Exploring Subtle Influences on Language Use in More than a Million Online Reviews. In the J. Vandekerckhove & J. Trueblood (Eds.) *Proceedings of the 48th Annual Meeting of the Society for Mathematical Psychology, Newport Beach, CA.*

- Vinson, D.W., & Dale, R.** (2015, July). Linguistic structure adapts to social structure. *Proceedings of the 4th Biannual Meeting of the Society for Complex Systems in Cognitive science*, Pasadena, CA.
- Vinson, D.W., & Dale, R.** (2015, July). Social Network Structure Contributes to Differences in Language use. In R. Dale, C. Jennings, P. Maglio, T. Matlock, D. Noelle & J. Yoshimi (Eds.) *Proceedings of the 37th Annual Meeting of the Cognitive Science Society (pp.)*. Austin, TX: Cognitive Science Society.
- Vinson, D.W., Zwaan, R., Dale, D., Matlock, T. & Engelen, J.** (2014, Nov). Motion language mediates gravitational effects on spatial memory. *Proceedings of the 12th incarnation of the Cognitive Linguistics and Discourse Processing*. Santa Barbara, California, USA.
- Vinson, D.W., Dale, R.** (2014, Nov). Information and social network analysis in a large natural corpus. *Proceedings of the 44th annual meeting of the Society for Computers in Psychology*, Long Beach, CA, USA.
- Vinson, D.W., Dale, R.** (2014, Nov). Message valence constrains information density. *Proceedings of the 55th annual meeting of the Psychonomics Society*. Long Beach, California, USA.
- Vinson, D.W., Zwaan, R., Dale, R., Matlock, T., & Engelen, J.**(2014, Aug) Visual evidence that simulating language occurs in realistic observation. *Proceedings of the 7th annual conference of Embodied and Situated Language Processing*. Rotterdam, Netherlands.
- Vinson, D.W., & Dale, R.** (2014, June). Message valence constrains information density. *26th APS Annual Convention, May 22-25, San Francisco, California, USA*.
- Vinson, D.W., & Abney, D.H.** (2013, Aug.). The influence of linguistic and social information on visual memory. *Proceedings of the 2nd Annual Cognition and Language workshop*. Santa Barbara, California, USA.
- Vinson, D.W., & Dale, R.** (2013, Aug.). How CRQA can shed light on two person anticipatory systems. *Proceedings of the 5th International Recurrence Plot Symposium*. Chicago, Illinois, USA.
- Vinson, D.W., & Dale, R.** (2013, July). Social gaze orientation influences decision making. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Meeting of the Cognitive Science Society*. Austin, TX: Cognitive Science Society. Berlin, Germany
- Vinson, D.W., Abney, D.H., Dale, R. & Matlock, T.** (2013, July). The influence of motion language and gaze orientation on spatial memory. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Meeting of the Cognitive Science Society*. Austin, TX: Cognitive Science Society. Berlin, Germany.
- Vinson, D.W., Abney, D. H., Dale, R. & Matlock, T.** (2013, July). Visuospatial memory's sensitivity to language and image orientation. *Proceedings of the 6th annual conference of Embodied and Situated Language Processing*. Potsdam, Germany

- Vinson D.W.**, & Jordan, J.S. (2013, July). Who carries your past? How social contexts and remembered actions influence perceived distance. *Proceedings of the 5th biannual Joint Action Meeting. Berlin, Germany.*
- Vinson, D.W.**, & Jordan, J.S. (2012, Nov). Perceived distance is influenced by memory and social factors. *Proceedings of the 53rd annual meeting of the Psychonomic Society* (p. 65). Minneapolis, Minnesota, USA.
- Vinson, D.W.**, & Jordan, J.S. (2011, Nov.). Social Proffitt: the influence of burden dynamics of another. *Proceedings of the 52nd annual meeting of the Psychonomics Society* (p140). Seattle, Washington, USA
- Vinson, D.W.**, & Jordan, J.S. (2011, Sept.). The Social influence of action-effect contingencies. *Illinois Data Conference. Carbondale, Illinois, USA.*
- Vinson, D.W.**, & Jordan, J.S. (2010, April). Social perception of action constraints. *ILLOWA: Undergraduate Conference. Galesberg, Illinois, USA.*

ACADEMIC PRESENTATIONS

INVITED TALKS

- 11/2016 *IBM Almaden Research Center, San Jose, CA.*
- 04/2015 *Language and Cognition lab, Department of Psychology, Stanford University, Palo Alto, CA.*
- 03/2015 *CogNetwork, Department of Linguistics, University of California, Berkeley, Berkeley, CA.*
- 01/2015 *Cognitive and Behavioral Science Pro Seminar, Illinois State University, Normal IL.*
- 11/2014 *IBM Almaden Research Center, San Jose, CA.*
- 08/2014 *Yelp, Inc., San Francisco, CA.*

CONFERENCE TALKS

- 11/2016 *57th Annual meeting of the Psychonomics Society, Chicago, IL.*
- 11/2016 *46th Annual meeting of the Society for Computers in Psychology, Boston, MA.*
- 11/2015 *45th Annual meeting of the Society for Computers in Psychology, Long Beach, CA.*
- 07/2015 *48th Annual Meeting of the Society for Mathematical Psychology (Newport Beach, CA).*
- 07/2015 *4th Biannual meeting of the Society for Complex Systems in Cognitive Science, Pasadena CA.*
- 11/2014 *12th Incarnation of the Cognitive Linguistics and Discourse Processing. Santa Barbara CA.*
- 11/2014 *44th Annual meeting of the Society for Computers in Psychology, Long Beach, CA.*
- 08/2014 *2nd Annual Science and Information Conference, London, UK.*
- 08/2014 *7th Annual conference of Embodied and Situated Language Processing. Rotterdam, Netherlands.*
- 07/2014 *36th Annual Meeting of the Cognitive Science Society. Quebec City, Canada.*
- 08/2013 *2nd Annual Cognition and Language workshop. Santa Barbara, CA.*
- 08/2013 *5th International Recurrence Plot Symposium, Chicago, IL.*
- 09/2011 *Illinois Data Conference. Carbondale, IL.*
- 04/2010 *ILLOWA. Galesberg, IL.*

CONFERENCE POSTERS

- 07/2016 *38th Annual Meeting of the Cognitive Science Society. Quebec City, Canada.*
- 08/2016 *38th Annual Meeting of the Cognitive Science Society. Philadelphia, PA.*

11/2015	56 th Annual meeting of the Psychonomics Society, Chicago, IL.
07/2015	37 th Annual Meeting of the Cognitive Science Society. Pasadena, CA.
11/2014	55 th Annual meeting of the Psychonomics Society, Long Beach, CA.
06/2014	26 th APS Annual Convention, San Francisco, CA.
07/2013	2 nd Annual Science and Information Conference, London, UK.
07/2013	35 th Annual Meeting of the Cognitive Science Society. Berlin, Germany.
07/2013	36 th Annual Meeting of the Cognitive Science Society. Quebec City, Canada.
07/2013	5 th Biannual Joint Action Meeting. Berlin, Germany.
07/2013	6 th Annual conference of Embodied and Situated Language Processing. Potsdam, Germany.
11/2012	53 rd Annual meeting of the Psychonomic Society (p. 65). Minneapolis, MN.
11/2011	52 nd Annual meeting of the Psychonomics Society (p140). Seattle, WA, USA.

TEACHING EXPERIENCE

Assisted in teaching 9 different classes across 2 different universities and 3 departments. Taught labs/seminars to groups of 30+, Evaluated writing, projects and examinations for up to 180 students at a time. Topics: Philosophy Cognitive Science, Psychology, Statistics, Research methods, Logic

SERVICE & PROFESSIONAL MEMBERSHIP

EDITOR

Behavior Research Methods, *Spinger*

AD HOC REVIEWER

Behavior Research Methods; PLoS ONE; Journal of Theoretical and Artificial Intelligence (JETAI); The Annual Meeting of the Cognitive Science Society; APS Student Caucus Funding Database; Mishra, R. K., Srinivasan, N., & Huettig, F. (Eds.) Attention and Vision in Language Processing. Springer.

PROFESSIONAL MEMBERSHIP

Cognitive Science Society (2013-present)

Association for Psychological Science (2013-present)

American Psychological Association (2013-present)

Psychonomics Society (2010, 2012-present)

Society for Mathematics in Psychology (2015-present)

Society for computers in Psychology (2014-present)

2015-present *Academic Placement Data and Analysis; Qualitative Measures advisor. (UC, Merced)*

Web: placementdata.com

2015-present *Quantitative Analytic and Computational Consulting group (UC, Merced)*

2013-2015 *Graduate student coordinator: Cognitive Science Student Association (CSSA)*

2012 *Co-Organizing Chair Graduate Student Speaker Series*

2010 *Graduate Student Panel, Psy-Chi & SPA*

FORMAL TRAINING

AMERICAN PSYCHOLOGICAL ASSOCIATION ADVANCED TRAINING INSTITUTE

Nonlinear Methods for Psychological Science University of Cincinnati, June 20-24, 2011

Data Mining for Psychological Science University of California, Davis, June 3-7, 2013

DYNAMICS OF JOINT-ACTION AND SOCIAL BEHAVIOR: THEORY, MODELING AND RESEARCH

With Michael Richardson, Humboldt Universitat, Berlin, August 5th, 2014

TECHNICAL SKILLS

Languages: *Python (SciPy, NumPy, NLTK, pandas, ...), R (tm, igraph, network, ggplot2, plyr, ...), Action Script 3*

Statistics/Tools: *Linear models (GLM, OLS, L1, L2 & Elastic Net), Information theory, Graph theory, Machine Learning, Nonlinear methods, Latex, iWork, Microsoft Office, Jupyter, RStudio*

MEDIA

Vinson, D. W. (2016, Oct). Sequential Dependence in online restaurant reviews. *www.dataonthemind.org/node/1600*

Jennings, C.D., Cobb, P., Vinson, D. W. (2016, May, 3). Academic Placement Data and Analysis: An Update with a Focus on Gender. *http://blog.apaonline.org/2016/05/03/academic-placement-data-and-analysis-an-update-with-a-focus-on-gender/*

Snyder, C. (2015, Mar, 25) Cognitive science student earns IBM Ph.D. Fellowship. *University of California, Merced, University News.*

(2014, Mar, 11). UC Merced Connect: Study shows link between attitude and word choice. *Merced Sun-Star.*

Hernandez-Jason, S. (2014, Mar, 3). Research shows connections between attitudes, language. *University of California, Merced, University News*