

# Curriculum Vita

## DREW H. ABNEY

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### Education

2016–Present	Postdoctoral Fellow (PIs: Chen Yu and Linda Smith) Department of Psychological and Brain Sciences Indiana University
2012–2016	Ph.D in Cognitive and Information Sciences University of California, Merced
2010–2012	M.S. in Experimental Psychology (Dual Degrees: Cognitive/Behavioral Sciences and Quantitative Psychology) Illinois State University
2009–2010	M.S. in Science, Technology, Education, and Mathematics Education and Leadership Illinois State University
2004–2008	B.S. in Technology Education Illinois State University

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### Peer-Reviewed Journal Articles

Abney, D.H., Warlaumont, A.S., Oller, D.K., Wallot, S. & Kello, C.T. (2016). The multiscale clustering of infant vocalization bouts. *In-fancy*.

- Abney, D.H.**, Kello, C.T., & Balasubramaniam, R. (2016). Introduction and application of the multiscale coefficient of variation analysis. *Behavior Research Methods*.
- Ross, J.M., Warlaumont, A.S., **Abney, D.H.**, Rigoli, L.M. & Balasubramaniam, R. (2016). Influence of Musical Groove on Postural Sway. *Journal of Experimental Psychology: Human Perception and Performance*.
- Abney, D.H.**, & Wagman, J.B. (2015). Direct learning in auditory perception: An information-space analysis of perception of object length by sound. *Ecological Psychology*.
- Abney, D.H.**, Warlaumont, A.S., & Kello, C.T. (2015). Production and convergence of multiscale clustering of speech. *Ecological Psychology*.
- Abney, D.H.**, Paxton, A., Dale, R., & Kello, C. (2015). Movement dynamics reflect a functional role for weak coupling and role structure in dyadic problem solving. *Cognitive Processing*.
- Abney, D.H.**, McBride, D.M., Conte, A. & Vinson, D.W. (2014). Response dynamics in prospective memory. *Psychonomic Bulletin & Review*.
- Abney, D.H.**, Paxton, A., Kello, C., & Dale, R. (2014). Complexity matching in dyadic interaction. *Journal of Experimental Psychology: General*, 143(6), 2304-2315.
- Abney, D.H.**, Warlaumont, A.S., Haussmann, A., Ross, J., Wallot, S. (2014). Using nonlinear methods to quantify infant motor and vocal development. *Frontiers in Developmental Psychology*, 143(6), 2304-2315.
- Vinson, D.W., **Abney, D.H.**, Warlaumont, A.S., Dale, R., & Matlock, T. (2014). The influence of linguistic and social information on visual memory. *Frontiers in Cognitive Science*.
- Abney, D.H.**, Dale, R., Yoshimi, J., Fusaroli, R., Kello, C.T., & Tylen, K. (2014). Joint perceptual decision-making: A case study in explanatory pluralism. *Frontiers in Theoretical and Philosophical Psychology*.

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**Abney, D.H.**, Wagman, J.B., & Schneider, J. (2014). Changing grasp position on a wielded object provides self-training for perception of length. *Attention, Perception, & Psychophysics*.

Wagman, J.B. & **Abney, D.H.**. (2013). Is calibration of the perception of length modality-independent? *Attention, Perception, & Psychophysics*.

**Abney, D.H.**, McBride, D.M., & Petrella, S.N. (2013). Interactive effects in transfer-appropriate processing for event-based prospective memory. *Memory & Cognition*.

McBride, D.M. & **Abney, D.H.**. (2012). A comparison of transfer-appropriate processing and multi-process frameworks for prospective memory performance. *Experimental Psychology*.

Wagman, J.B. & **Abney, D.H.**. (2012). Transfer of recalibration from audition to touch: Modality independence as a special case of anatomical independence. *Journal of Experimental Psychology: Human Perception and Performance*. 38(3), 589-602.

McBride, D.M., Beckner, J. & **Abney, D.H.**. (2011). Effect of placement of prospective memory cues in an ongoing task on prospective memory task performance. *Memory & Cognition*. 39, 1222-1231.

### **Manuscripts Under Review/Revision**

Jordan, J.S., Schloesser, D.S., Bai, J., **Abney, D.H.** (under review). Spatial and temporal dependencies during joint action: A potential integration of representational and dynamical approaches.

**Abney, D.H.**, Gann, T.M., Huette, S., Matlock, T. (under revision). The Language of Uncertainty and Political Ideology in Climate Change.

## Edited Books

Weast-Knapp, J., Malone, M., & **Abney, D.H.** (Eds.)(2015). *Studies in Perception and Action XIII. Proceedings from the Eighteenth International Conference on Perception and Action, Minneapolis, MN.*

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## Commentary

Vinson, D.W., **Abney, D.H.**, Amso, D., Anderson, M.L., Chemero, T., Cutting, J.E., Dale, R., Richardson, D., Friston, K., Gallagher, S., Jordan, J.S., Mudrik, L., Ondobaka, S., Shams, L., Shiffrar, M., Spivey, M.J. (2015). Perception, as you make it. Commentary of C. Firestone & B. Scholl's "Cognition does not affect perception: Evaluating the evidence for 'top-down' effects". *Behavioral and Brain Sciences*

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## Refereed Conference Proceedings

Bunce, J.P., Gordon, C.L., **Abney, D. H.**, Fleming, Morgan, M.M., Greenwood, M., Chiu, E., Spivey, M.J., & Scott, R.M. (2016). Mouse Tracking Reveals Knowledge of Multiple Competing Referents During Cross-Situational Word Learning. *BUCLD 40 Proceedings*.

Bunce, J.P., **Abney, D. H.**, Gordon, C.L., Spivey, M.J., & Scott, R.M. (forthcoming). Using Motor Dynamics to Explore Real-time Competition in Cross-situational Word Learning: Evidence From Two Novel Paradigms. In J. Trueswell, A. Papafragou, D. Grodner, & D. Mirman (Eds.), *Proceedings of the 36<sup>th</sup> Annual Meeting of the Cognitive Science Society*.

**Abney, D. H.** & Thomas, B. (2015). Exploration in information space during affordance perception. In Weast-Knapp, J., Malone, M., & Abney, D.H. (Eds.), *Studies in Perception and Action XIII: Proceedings from the Eighteenth International Conference on Perception and Action*.

Schloesser, D.S., Wagman, J.B. & **Abney, D. H.** (2015). Flip this rod! Changing grasp position can recalibrate perception of length by dy-

namic touch. In Weast-Knapp, J., Malone, M., & Abney, D.H. (Eds.), *Studies in Perception and Action XIII: Proceedings from the Eighteenth International Conference on Perception and Action*.

Paxton, A., **Abney, D. H.**, Kello, C. T., & Dale, R. (2014). Network analysis of multimodal, multiscale coordination in dyadic problem solving. In P. M. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36<sup>th</sup> Annual Meeting of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

**Abney, D. H.**, Paxton, A., Kello, C., & Dale, R. (2013). Complexity matching in dyadic interactions. In P. Passos, J. Barrieros, R. Cordovil, D. Araújo, & F. Melo (Eds.), *Studies in Perception and Action XII: Proceedings from the Seventeenth International Conference on Perception and Action*.

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## Conference Presentations

**Abney, D.H.**, Warlaumont, A.S., Oller, D.K., Wallot, S., & Kello, C.T. (May, 2016). *The multiscale clustering of infant vocalization bouts*. Presentation at the International Conference on Infant Studies. New Orleans, LA.

Perlman, M. & **Abney, D.H.**, (March, 2016). *Multimodal analysis of the learned vocal repertoire of a human-fostered gorilla*. Presentation at the 2016 EvoLang conference. New Orleans, LA.

**Abney, D.H.** & Balasubramaniam, R. (2015, November). *Introduction and applications to the multiscale coefficient of variation analysis (MSCV)*. Paper presented at the 45<sup>th</sup> Annual Meeting of the Society for Computers in Psychology. Chicago, IL.

**Abney, D.H.** & Kello, C.T. (2014, August). *Complexity matching in dyadic conversation*. Presentation at the 10<sup>th</sup> Annual Guy Van Orden UConn Workshop on Cognition and Dynamics. University of Connecticut, Storrs, CT.

**Abney, D.H.**, Warlaumont, A.S., Oller, D.K., Wallot, S., & Kello, C.T. (2015). *The multiscale clustering of infant vocalization bouts*. Presentation at the Society for Complex Systems in Cognitive Science.

Long Beach, CA.

**Abney, D.H.**, Warlaumont, A.S., Oller, D.K., Wallot, S., & Kello, C.T. (2015). *The multiscale clustering of infant vocalization bouts*. Presentation at the International Society for Perception and Action. Minneapolis, MN.

**Abney, D.H.** (2014). *Complexity matching across conversational settings*. Presentation at the Finding Common Ground: Social, Ecological, and Cognitive Perspectives on Language Use. University of Connecticut, Storrs, CT.

**Abney, D.H.** & Kello, C.T. (2014, November). *Measuring multiscale temporal clustering in speech signals*. Paper presented at the 44<sup>th</sup> Annual Meeting of the Society for Computers in Psychology. Long Beach, CA.

**Abney, D.H.**, Kerster, B.E. & Kello, C.T. (2014). *Multiscale spatial distributions of eye fixations decouple over time*. Presentation at the International Society of Ecological Psychology.

**Abney, D.H.** & Wagman, J.B. (2014). *An information-space analysis of perception of object length by sound*. Presentation at the International Society of Ecological Psychology.

**Abney, D.H.** & Kello, C.T. (2013). *Dynamics of social cognition*. Presentation and workshop given by C. Kello at the National University of Galway, Complex Systems Research Centre, Dynamical Analyses of Social Behaviour Workshop.

**Abney, D.H.**, Paxton, A., Kello, C.T. & Dale, R. (2013). *Complexity matching in dyadic interaction*. Paper presented at the 17<sup>th</sup> International Conference of Perception and Action. Lisbon, Portugal.

Vinson, D.W. & **Abney, D.H.** (2013). *The influence of linguistic and social information on visual memory*. Presentation at the 11<sup>th</sup> International Cognitive Linguistics Conference. Edmonton, Alberta, Canada.

**Abney, D.H.** & Wagman, J.B. (2012). *Intrinsic feedback in recalibration of length perception*. Presentation at the 2012 Illinois Data Con-

ference, Edwardsville, IL.

**Abney, D.H.** & Wagman, J.B. (2011). *Transfer of recalibration across modalities: Feedback on audition improves haptic perception*. Presentation at the 2011 Illinois Data Conference, Carbondale, IL.

Brown, J.W. & **Abney, D.H.** (2010). *The biotechnology of technology education: A descriptive investigation of the conceptual foundations of biotechnology necessary for technology education teachers*. . Presentation at the annual conference of the International Technology and Engineering Education Association, Charlotte, NC.

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## Refereed Posters

Schloesser, D.S., Bai, J., **Abney, D.H.** & Jordan, J.S. (2015). *Comparing performance and coordination dynamics of dyads and individuals in a complex control task*. Poster presented at the annual conference of the Psychonomics Society, Chicago, IL.

Conte, A., **Abney, D.H.** & McBride, D. (2015). *Response Dynamics in Time- and Event-based Prospective Memory*. Poster presented at the annual conference of the Psychonomics Society, Chicago, IL.

**Abney, D.H.**, Warlaumont, A.S., Oller, D.K., Wallot, S., & Kello, C.T. (2015). *The multiscale clustering of infant vocalization bouts*. Poster presented at the 37<sup>th</sup> Annual Meeting of the Cognitive Science Society, Long Beach, CA.

Schloesser, D.S., Bai, J., **Abney, D.H.** & Jordan, J.S. (2015). *Comparing performance and coordination dynamics of dyads and individuals in a complex control task*. Poster presented at the 37<sup>th</sup> Annual Meeting of the Cognitive Science Society, Long Beach, CA.

**Abney, D.H.** & Thomas, B. (2015). *Exploration in information space during affordance perception*. Poster presented at the 18<sup>th</sup> International Conference on Perception and Action

Schloesser, D.S., Wagman, J.B. & **Abney, D. H.** (2015). Flip this rod! Changing grasp position can recalibrate perception of length by dy-

namic touch. Poster presented at the 18<sup>th</sup> International Conference on Perception and Action

**Abney, D.H.**, Gann, T.M., Huette, S. & Matlock, T. (2015). *The language of uncertainty and political ideology in climate change*. Poster presented at the 13<sup>th</sup> Biennial Conference on Communication and Environment, University of Colorado, Boulder, CO.

**Abney, D.H.** & Wagman, J.B. (2014). *Direct learning in auditory perception: An information-space analysis of auditory perception of object length*. Poster presented at the annual conference of the Psychonomics Society, Long Beach, CA.

Paxton, A., **Abney, D.H.**, Kello, C.T. & Dale, R. (2014). *Network analysis of multimodal, multiscale coordination in dyadic problem solving*. Poster presented at the 36<sup>th</sup> Annual Meeting of the Cognitive Science Society.

Cho, K. **Abney, D.H.**, Brotman, R. & Feldman, L.B. (2014). *Articulatory and phonological codes interact in memory*. Poster presented at the 36<sup>th</sup> Annual Meeting of the Cognitive Science Society.

**Abney, D.H.**, Paxton, A., Kello, C.T. & Dale, R. (2014). *Multimodal and multiscale interpersonal interaction in a joint problem solving task*. Poster presented at the 26<sup>th</sup> Annual Meeting of the American Psychological Society, San Francisco, CA.

**Abney, D.H.**, Paxton, A., Kello, C.T. & Dale, R. (2013). *Complexity matching in dyadic interaction*. Poster presented at the 35<sup>th</sup> Annual Meeting of the Cognitive Science Society.

Fusaroli, R., **Abney, D.H.**, Bahrami, B., Kello, C.T. & Tylen, K. (2013). *Performance in a joint decision task is predicted by the degree of complexity matching of interlocutors' speech events*. Poster presented at the 35<sup>th</sup> Annual Meeting of the Cognitive Science Society.

Vinson, D.W., **Abney, D.H.**, Dale, R. & Matlock, T. (2013). *Visuospatial memory's sensitivity to language and image orientation*. Poster presented at the 35<sup>th</sup> Annual Meeting of the Cognitive Science Society.



Wagman, J.B. & **Abney, D.H.** (2012). *Is calibration of perception modality independent?*. Poster presented at the annual conference of the Psychonomics Society, Minneapolis, MN.

**Abney, D.H.** & McBride, D. (2012). *A test of the graded match in processing view of event-based prospective memory*. Poster presented at the annual Illinois State University Graduate Research Symposium.

**Abney, D.H.** & Wagman, J.B. (2012). *Intrinsic feedback in recalibration of length perception*. Poster presented at the annual Illinois State University Graduate Research Symposium.

**Abney, D.H.** & Wagman, J.B. (2011). *The role of intrinsic, self- feedback in recalibration of length perception in dynamic touch*. Poster presented at the annual conference of the Psychonomics Society, Seattle, WA.

**Abney, D.H.** & Wagman, J.B. (2010). *Transfer of recalibration across modalities: Feedback on audition improves haptic perception*. Poster presented at the annual conference of the Psychonomics Society, Chicago, IL.

**Abney, D.H.** & Wagman, J.B. (2010). *Transfer of recalibration across modalities: Feedback on audition improves haptic perception*. Poster presented at the annual Illinois State University Graduate Research Symposium.

**Abney, D.H.**, Cantin, R.H., Merrill, C. & Landau, S. (2010). *Parents Perceptions of Their Role in School Leadership*. Poster presented at the annual conference of the National Association of School Psychologists, San Francisco, California.

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## Invited Talks and Lectures

**Abney, D.H.** (2016). *The Complexity Matching hypothesis for human communication*. Cognitive and Behavioral Sciences Colloquium, Illinois State University, Normal, IL.

**Abney, D.H.** (2016). *The Complexity Matching hypothesis for human communication*. Cognition, Perception, and Action (CAP) Speaker Series, University of Cincinnati, Cincinnati, OH.

- Abney, D.H.** (2016). *Complexity matching, coordination patterns, and development*. CogNetwork Colloquium Series, University of California, Berkeley, Berkeley, CA.
- Abney, D.H.** (2015). *Complexity matching, coordination patterns, and development*. Department of Psychological and Brain Sciences, Indiana University, Bloomington, IN.
- Abney, D.H.** (2014). *Complexity matching in conversational contexts*. CogNetwork Colloquium Series, University of California, Berkeley, Berkeley, CA.
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## Funding and Awards

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| 2016 | UC Merced GradSLAM Finalist (\$250)<br>University of California, Merced   |
| 2015 | Hatano Cognitive Development Research Fellowship (\$1000)<br>University of California, Merced   |
| 2015 | Cognitive and Information Sciences Summer Fellowship (\$2,250)<br>University of California, Merced  |
| 2014 | Birnbaum Award<br>Society for Computers in Psychology   |
| 2014 | Cognitive and Information Sciences Travel Fellowship (\$1,050)<br>University of California, Merced  |
| 2014 | Cognitive and Information Sciences Summer Fellowship (\$3,800)<br>University of California, Merced  |
| 2013 | Cognitive and Information Sciences Travel Fellowship (\$2,000)<br>University of California, Merced  |
| 2013 | Cognitive and Information Sciences Summer Fellowship (\$2,500)<br>University of California, Merced  |
| 2012 | Charter Department Graduate Student Excellence Award<br>Department of Psychology, Illinois State University                                   |
| 2011 | Outstanding Psychology Graduate Assistant Award<br>Department of Psychology, Illinois State University  |
| 2010 | Rodney L. Custer Graduate Student Research Award<br>Department of Psychology, Illinois State University                                       |
| 2010 | The Donald Maley Spirit of Excellence Outstanding Graduate Student Citation<br>International Technology and Engineering Education Association |
| 2010 | Graduate Student of the Year  |

## Professional Affiliations

2016– <i>present</i>	International Congress of Infant Studies
2015– <i>present</i>	International Environmental Communication Association
2014– <i>present</i>	Society for Computers in Psychology
2012– <i>present</i>	Psychonomic Society (Student Member)
2012– <i>present</i>	Cognitive Science Society (Graduate Student Member)
2011– <i>present</i>	Association for Psychological Science (Graduate Student Affiliate)
2011–2013	Midwest Psychological Association
2009–2010	International Technology and Engineering Educators Association

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## Teaching Experience

### Instructor of Record

Fall 2009	Technology and the Quality of Life (TEC 275) Illinois State University, (Normal, IL)
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### Teaching Assistant

Spring 2016	Complex Adaptive Systems (COGS 180/204) Instructor of Record: Dr. Michael Spivey University of California, Merced (Merced, CA)
Fall 2015	Applied Ethics (PHIL 003) Instructor of Record: Dr. David Jennings University of California, Merced (Merced, CA)
Spring 2015	Introduction to Language and Linguistics (COG 005) Instructor of Record: Dr. Teenie Matlock University of California, Merced (Merced, CA)
Fall 2014	Speech Processing (COG 151) Instructor of Record: Dr. Anne Warlaumont University of California, Merced (Merced, CA)

Fall 2013 Mind, Brain, & Cognition (COG 101)  
Instructor of Record: Dr. Chris Kello  
University of California, Merced (Merced, CA)

Fall 2012 Mind, Brain, & Cognition (COG 101)  
Instructor of Record: Dr. Chris Kello  
University of California, Merced (Merced, CA)

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## Professional Service

2015 An Evening on Free Will (Co-organizer)  
University of California, Merced (Merced, CA)

2015 Second Annual Symposium on Child and Family. Professional  
growth event for community child educators  
University of California, Merced (Merced, CA)

2013–2015 Undergraduate Cognitive Science Student Association (CSSA)  
co-founder/representative  
University of California, Merced (Merced, CA)

2013 Student research talk organizer, Department of Cognitive and  
Information Sciences.  
University of California, Merced (Merced, CA)

2010 Department Chair search committee (student group), Depart-  
ment of Psychology.  
Illinois State University (Normal, IL)

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## Reviewer for the following journals

Attention, Perception, & Psychophysics, American Journal of Psychology,  
Developmental Science, Frontiers in Psychology, Journal of Experimental  
Psychology: Human Performance and Perception, New Ideas in Psychol-  
ogy, Perception, PLOS One, Behavioral Research Methods

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## Reviewer for the following proceedings

International Conference on Perception and Action (2015)  
Annual Meeting of the Cognitive Science Society (2014, 2015, 2016)

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## Technical Skills

MATLAB, R, Python, Adobe ActionScript, Adobe Illustrator/Photoshop/Lightroom, SPSS, Superlab, PsychoPY, Excel, AutoCAD, 3D Studio MAX, L<sup>A</sup>T<sub>E</sub>X