Last Revision: 11/30/26

Drew H. Abney

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PROFESSIONAL APPOINTMENTS

Associate Department Head 2025-present
University of Georgia
Department of Psychology

Associate Professor 2024-present
University of Georgia
Department of Psychology

Faculty Affiliate 2021-present
University of Georgia
Institute for Artificial Intelligence

Director of Graduate Studies 2022-2025
University of Georgia
Department of Psychology

Assistant Professor 2020-2024
University of Georgia
Department of Psychology

Assistant Professor 2019-2020
University of Cincinnati
Department of Psychology
Center for Cognition, Action, & Perception

EDITORIAL POSITIONS

2025-*present* Associate Editor at *Developmental Science*
2025-present Statistical Consulting Editor at *Child Development*
2025-*present* Editorial Board at *Infancy*

EDUCATION

Postdoctoral Fellow in Developmental Psychology 2016-2019
Indiana University
Department of Psychological and Brain Sciences

Ph.D. in Cognitive and Information Sciences 2016
University of California, Merced
Cognitive and Information Sciences

M.S. in Experimental Psychology 2012
Illinois State University
Department of Psychology
Dual degrees: Quantitative Psychology & Cognitive/Behavioral Sciences

M.S. in Education 2010
Illinois State University
Department of Technology

B.S. in Education 2008
Illinois State University
Department of Technology

GRANTS

Current

Co-PI. A longitudinal investigation of caregiving, everyday motor experiences, and motor skill development using wearable sensors. w/Drs. John Franchak and Kari Kretch. National Science Foundation: Developmental Sciences. $500,000. 2025-2028.

Principal Investigator. Sensorimotor cascades: Integrating real-time movement dynamics during the sleep and awake periods of human infants. James S. McDonnell Foundation. $250,000. 2022-2026.

Co-PI. Temporal structures of everyday behaviors. w/Drs. Catherine Tamis-LeMonda, Caitlin Fausey, & Catalina Suarez-Rivera. National Science Foundation: Developmental Sciences. $694,828. 2023-2026.

Co-I. Parent-Child Physiological Synchrony in Naturalistic Setting. w/Dr. Niyantri Ravindran. Mental Research Institute. $$25,000. 2026-2027.

Under Review

Co-PI. The vertical impact of maternal ultra-processed food intake on cognition of infants via shaping gut microbiome: a Prospective study. w/Dr. Park. USDA-NIFA.

Co-I. Emotion in Motion: Multimodal, Contactless Assessment of Adolescent Emotion Regulation and Mental Health in Real-World Contexts. w/Drs. Oshri, Tsouri, Geier, House, & Kogan. National Science Foundation: Connected Health (SCH) & Developmental Sciences.

Completed

Principal Investigator. Dynamic models of interaction for trust building in diverse contexts. Army Research Institute. w/Dr. Alex Paxton. $597,365. 2023-2025. Awarded but cancelled in 2024.

Sub-Award PI. Play and Learning Across a Year, National Institute of Child Health and Development. w/Dr. Janet Frick. $18,000 to sub-award. 2022-2023.

Consultant. The embodied emergence of social communication: Implications for autism in infancy. PI: Dr. Jessica Bradshaw ($250,000 to PI). James S. McDonnell Foundation. $9,000 to consultant. 2021-2022.

Principal Investigator. The role of multi-level parent-child synchrony on child self-regulation. w/Drs. Cindy Suveg & Geoffrey Brown. Seed Grant Proposal. Owens Institute for Behavioral Research. University of Georgia. $9,955. 2021-2022.

Postdoctoral Trainee. Training program in integrative developmental process. National Institute of Child Health and Development (T32). PI: Linda B. Smith. 2016-2018.

Not Awarded

Principal Investigator. (2018). Sensorimotor foundations of visual attention in infants. National Institute of Child Health and Development (K99). Scored, not funded.

PUBLICATIONS

Peer-Reviewed Journal Articles (50)
****= equal contribution; †= graduate student***

Ravindran, N., Carvalho, C.A., **Abney, D.H.** (*in press*). The temporal structure of mother-child positive emotional synchrony during play: Relations to maternal depressive symptoms and child adjustment. *Emotion*.

Kretch, K.S., Enriques, F.A., Franchak, J.M., **Abney, D.H.**, †Bell, C.B., †Jerry, C., †Lindig, K., †Steffen, G. (*in press*). Body position classification using wearable sensors in infants with cerebral palsy. *Infant Behavior and Development*.

Abney, D.H., Sheinkopf, S.J., Mitsven, S.G., Seifer, R., Lester, B.M., Tronick, E.Z., Messinger, D.S. (*in press*). The dynamics of human infant heart rate variability is dependent on mutual positive engagement with their mother. *Philosophical Transactions of the Royal Society B*.

†Morrow, K., †Hale, M.E., †Gallegos, D., †Jerry, C., **Abney D.H.**, & Suveg, C. (2026). Maternal approach- and avoidance-orientations are differentially associated with dynamic mother-child affect expression. *Emotion*.

†Steffen, G., †Lindig, K., †Howard, C.J., †Jerry, C., †Bell, C., †Morrow, K.E., †Gallegos, D., Oshri, A., Suveg C., Kello, C.T., **Abney, D.H.** (2026). Coupling of rhythms in prefrontal cortex and autonomic nervous system in school-age children. *Annals of New York Academy of Sciences*

†Hale, M.E., †Morrow, K.E., †Steffen, G., Wang, H., †Jerry, C.M., Xu, J, Han, R.H., **Abney, D.H.,** & Suveg, C. (2025). Mother-child neurophysiological synchrony moderates the relation between maternal affect expression and child emotion dysregulation. *Research on Child and Adolescent Psychopathology*.

Abney, D.H., Fausey, C.M., Suarez-Rivera, C., Tamis-LeMonda, C.S. (2025). Advancing a temporal science of behavior. *Trends in Cognitive Science*.

Laudańska, Z., Caunt, A., Cristia, A., Warlaumont, A., Patsis, K., Tomalski, P., Warreyn, P., **Abney, D.H.**, Borjon, J.I., Airaksinen, M., Jones, E., Bölte, S., Dall, M., Holzinger, D., Poustka, L., Roeyers, H., Wass, S., Zhang, D., Marschik, P.B. (2025). From data to discovery: Technology propels speech-language research and theory-building in developmental science. *Neuroscience and Biobehavioral Reviews*.

†Brand, D.S., Proctor, A., Harvey, M., **Abney, D.H.**, Slatcher, R., Holt-Lunstad, J. (2025). Actively participating in live events as an avenue for social connection. Social *Psychological and Personality Science*.

†George, A.M., †Hale, M.E., Wang, H., **Abney D.H.**, Caughy, M., & Suveg, C. (2024). Child self-regulation relate to mother emotion parenting behaviors in black and Latinx mother-child dyads. *Journal of Applied Developmental Psychology*.

Carey, S., Ross, J.M., **Abney, D.H.** Balasubramaniam, R. (2024). Effects of auditory noise intensity and color on the dynamics of upright stance. *Scientific Reports*.

Borjon, J., **Abney, D.H.**, Yu, C., & Smith, L.B. (2024). Infant word production activates ancillary body movements. *Developmental Science*.

Abney, D.H., †Jerry, C., Smith, L.B., Yu, C. (2024) Look before you reach: Fixation-reach latency during pre-reach predicts reaching kinematics in infancy. *Infancy*.

Bradshaw, J., Fu, X., Yurkovic-Harding, J., **Abney, D.H.** (2023). Infant embodied attention in context: Feasibility of home-based head-mounted eye tracking in early infancy. *Developmental Cognitive Neuroscience*.

Slone, L.K., **Abney, D.H.**, Smith, L.B., Yu, C. (2023). The temporal structure of parent talk to toddlers about objects. *Cognition*.

Haas, B. W., **Abney, D.H.**, Erikson, K., Potter, J., & Gosling, S.D. (2023). Big-5 traits and cultural tightness-looseness links to person-culture personality fit: A large scale investigation across 57 nations. *Social Psychological and Personality Science*.

Nguyen, T., Bertenthal, B.I., Hoehl, S., **Abney, D.H.** (2022). Coupling between prefrontal brain activity and respiratory sinus arrhythmia in infants and adults. *Developmental Cognitive Neuroscience*.

Schwab, S.M., Carver, N.S., Forman, M., **Abney, D.H.**, Davis, T.J., Riley, M.A., Paxton, A., Silva, P.L. (2021). Child-caregiver interactions during a collaborative motor task in children with cerebral palsy: A descriptive exploratory study. *Journal of Developmental and Physical Disabilities*.

Nguyen, T., **Abney, D.H.**, Salamander, D., Bertenthal, B.I., Hoehl, S. (2021). Proximity and touch boost neural but not physiological synchrony in naturalistic mother-infant interactions: Evidence from multi-level hyperscanning. *Neuroimage*.

Borjon, J.I., **Abney, D.H.**, Smith, L.B., Yu, C. (2021). Head and eyes: Looking behavior in 12- to 24-month-old infants. *Journal of Vision*.

*__Abney, D.H.__, *daSilva, E., Bertenthal, B.I. (2021). Infants' self-regulation is moderated by the synchrony between infants' and mothers' cardiac vagal tone. *Developmental Psychobiology*.

Bradshaw, J. & **Abney, D.H.** (2021). The role of infant vagal tone during social play and social withdrawal in the emergence of social-communication skills. *Developmental Psychobiology*.

Abney, D.H., daSilva, E., Lewis, G., Bertenthal, B.I. (2021) A method for measuring dynamic respiratory sinus arrhythmia (RSA) in infants and mothers. *Infant Behavior and Development*.

Abney, D.H., Paxton, A., Dale, R., & Kello, C.T. (2021). Cooperation in sound and motion: Complexity matching in collaborative interaction. *Journal of Experimental Psychology: General*.

†Schwab, S.M., Grover, F.M., **Abney, D.H.**, Silva, P.L., Riley, M.A. (2020). Unpredictable task demands facilitate grip control in children and adolescents with cerebral palsy. *Clinical Biomechanics*.

Abney, D.H., Suanda, S., Smith, L.B., Yu, C. (2020). What are the building blocks of parent-infant coordinated attention in free-flowing interaction? *Infancy*.

Xu, L., de Barbaro, K., **Abney, D.H.**, Cox, R. (2020). Finding structure in time: Visualizing and analyzing behavioral time series. *Frontiers in Developmental Psychology*.

*Borjon, J.I., *__Abney, D.H.__, Smith, L.B., Yu, C. (2018). Developmentally changing attractor dynamics of manual actions with objects in late infancy. *Complexity*.

Abney, D.H., Dale, R., Louwerse, M.M., Kello, C. T. (2018). The bursts and lulls of multimodal interaction: Temporal distributions of behavior reveal differences between verbal and non-verbal communication. *Cognitive Science*.

Wagman, J.B., **Abney, D.H.**, & Rosenbaum, D.A. (2018). Second-order grasp planning reflects sensitivity to inertial factors. *Human Movement Science*.

Slone, L., **Abney, D.H.**, Borjon, J.I., Chen, C., Franchak, J.M., Pearcy, D., Suarez-Rivera, C., Xu, L., Zhang, Y., Smith, L.B., Yu, C. (2018). Head-mounted eye-tracking of children's dynamic visual attention during naturalistic behavior. *Journal of Visualized Experiments*.

Borjon, J.I., Schroer, S., Bambach, S., Slone, L., **Abney, D.H.**, Crandall, D., Smith, L.B. (2018). Capturing the egocentric view of infants and toddlers with head-mounted cameras. *Journal of Visualized Experiments*.

Jordan, J.S., Schloesser, D.S., Bai, J., **Abney, D.H.** (2017). Multi-scale contingencies during individual and joint action. *Topics in Cognitive Science*.

Abney, D.H., Warlaumont, A.S., Oller, D.K., Wallot, S. & Kello, C.T. (2017). Multiple coordination patterns in infant and adult vocalizations. *Infancy*.

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., Paxton, A., Kello, C., & Dale, R. (2014). Complexity matching in dyadic interaction. *Journal of Experimental Psychology: General*.

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*.

Abney, D.H., McBride, D.M., Conte, A. & Vinson, D.W. (2014). Response dynamics in prospective memory. *Psychonomic Bulletin & Review*.

Vinson, D. W., **Abney, D. H.,** Dale, R., & Matlock, T. (2014). High-level context effects on spatial displacement: the effects of body orientation and language on memory. *Frontiers in psychology*.

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*.

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*.

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*.

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*.

Edited Books (1)

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.

Book Chapters (1)

†Steffen, G.M., †Jerry, C.M., †Bell, C., †Kolberg, A.R., †Patel, B., & **Abney, D.H.** (Eds) (2024). The operationalization of coordinated attention and the relations to language development: A meta-analysis. *Advances in Child Development and Behavior*. 66, 81-107.

Peer-Reviewed Proceedings (12)

Nguyen, T., **Abney, D.H.**, Bertenthal, B.I., Hoehl, S. (2021). Infants' social communication from a predictive processing perspective. *Proceedings of the 43th Annual Meeting of the Cognitive Science Society*.

Karmazyn, H., **Abney, D.H.**, Crandall, D., Yu, C., Smith, L.B. (2019). How do infants start learning object names in a sea of clutter? *Proceedings of the 41th Annual Meeting of the Cognitive Science Society*.

Abney, D.H., Karmazyn, H., Smith, L.B., Yu, C. (2018). Hand-eye coordination and visual attention in infancy. *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*.

Abney, D.H., Smith, L.B., Yu, C. (2017). It's Time: Quantifying the Relevant Timescales for Joint Attention. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*.

Abney, D.H., Dale, R., Kello, C.T., Louwerse, M.M. (2017). Burstiness across multimodal human interaction reveals differences between verbal and non-verbal communication. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*.

Xu, T. L., **Abney, D.H.**, Yu, C. (2017). Discovering Multicausality in the Development of Coordinated Behavior. *Proceedings of the 39th Annual Meeting of the Cognitive Science Society*.

Bunce, J.P., **Abney, D. H.**, Gordon, C.L., Spivey, M.J., & Scott, R.M. (2016). 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 36th Annual Meeting of the Cognitive Science Society*.

Bunce, J., Gordon, C., **Abney, D.H.**, Fleming, M., Greenwood, M., Chiu, E., Spivey, M.J., Scott, R. (2016). Mouse Tracking Reveals Knowledge of Multiple Competing Referents During Cross-situational Word Learning. *Boston University Conference on Language Development Proceedings*.

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 dynamic 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. K., & Dale, R. (2014). Network analysis of multimodal, multiscale coordination in dyadic problem solving. In P. Bello, M. Guarini, M. McShane & B. Scassellati (Eds.) *Proceedings of the 36th 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. Araujo, & F. Melo (Eds.), *Studies in Perception and Action XII: Proceedings from the Seventeenth International Conference on Perception and Action*.

Commentaries

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. (2015). 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*.

Manuscripts under revision/review

Oshri, A., Howard, C.J., **Abney, D.H.** (*under review*). A Dynamic systems theory perspective on testing hormesis in human development resilience models. *Development and Psychopathology*.

Montroy, A. E., †Jerry, C. M., Fyan, M. T., Lindig, K., **Abney, D. H.**, & Frick, J. E. (*under review*). Context matters: Developmental and temporal dynamics of maternal attention-directing and infant engagement. *Infancy*.

Howard, C.J., †Steffen, G., **Abney, D.H.**, Geier, C.F., Oshri, A. (*under review*). Frequency-optimized HRV bands for parent-child autonomic synchrony: A dyad-specific method and evaluation. *Psychophysiology*.

†Steffen, G., †Jerry, C., †Morrow, K., Aytuglu, A., †Bell, C., †Collins, S.A., Brown, G., Suveg, C., & **Abney, D.H.** (*under review*). Quantifying complex multimodal interactions between mother-child dyads: A dynamic network approach. *Developmental Psychobiology*.

*Messinger, D.S., *Mitsven, S.G., *Custode, S., **Abney, D.H.**, Fasano, R.M., Perry, L.K. (*under review*). The temporal structure of infant cry and speech-like vocalizations. *Infancy*.

†Morrow, K., †Hale, M.E., **Abney D.H.**, Caughy, M., & Suveg, C. (*under review*). A latent profile analysis of maternal self-regulation and associations with parent-child behavioral synchrony in latinx and black mother-child dyads.

Suarez-Rivera, C., **Abney, D. H.**, Fausey, C. M., & Tamis-LeMonda, C. S. (under review). Infant Vocalizations and Mother Speech are Coordinated in Their Local and Global Temporal Structures. *Developmental Science*.

PRESENTATIONS

Invited Talks

Abney, D.H. (2026). Redbird to Bobcat to Hoosier to Bearcat to Dawg: In the middle of an academic journey. Illinois State University. Alumnus of the Year: Early Career Lecture.

Abney, D.H. (2024). It's all about time: How to study developmental phenomena across multiple levels of analysis and interactive contexts. University of Texas, Austin.

Abney, D.H. (2024). Linking human interaction and physiology across systems and timescales. Universität Wien [Virtual].

Abney, D.H. (2023). Linking human interaction and physiology across systems and timescales. Developmental Brownbag. Georgia State University.

Abney, D.H. (2023). Linking human interaction and physiology across systems and timescales. Developmental Brownbag. Georgia State University.

Abney, D.H. (2023). Linking human interaction and physiology across systems and timescales. Polish Academy of Sciences, Warsaw, Poland.

Abney, D.H. (2023). Linking human interaction and physiology across systems and timescales. Developmental Seminar Series. University of Texas—Austin.

Abney, D.H. (2023). Linking human interaction and physiology across systems and timescales. Centre for Brain and Cognitive Development Seminar Series. Birkbeck, University of London.

Abney, D.H. (2022). Linking human interaction and physiology across systems and timescales. University of Miami.

Abney, D.H. (2021). The Complexity Matching hypothesis for human communication. Cognitive Science and Artificial Intelligence Colloquium, Tilburg University.

Abney, D.H. (2021). Sensorimotor development in a social world. Midwestern Psychological Association. Chicago, IL. Invited Extended Talk.

Abney, D.H. (2020). The sensorimotor basis for development. University of Connecticut, Storrs, CT.

Abney, D.H. (2019). The sensorimotor basis for development. University of Georgia, Athens, GA.

Abney, D.H. (2019). The sensorimotor basis for development. University of Cincinnati, Cincinnati, OH.

Abney, D.H. (2018). On form and function: Investigating temporal distributions of behavior in infancy. Developmental Psychology Brownbag, University of Chicago, Chicago, IL.

Abney, D.H. (2018). On form and function: Investigating temporal distributions of behavior in infancy. Cognitive and Behavioral Sciences Colloquium, Illinois State University, Normal, IL.

Abney, D.H. (2018). On form and function: Investigating temporal distributions of behavior in infancy. Heymans Institute for Psychological Research, University of Groningen, The Netherlands.

Abney, D.H. (2018). On form and function: Investigating temporal distributions of behavior in infancy. CogLunch Talk Series, Indiana University, Bloomington, IN.

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.

Conference Symposia Organized

Abney, D.H. (2022). Temporal structures in development. *Biannual Meeting of the International Congress for Infant Studies*, Ottawa, Canada.

Abney, D.H. (2015). Advances in Strong Anticipation and Complexity Matching. Symposium organized at the Eighteenth International Conference on Perception and Action, Minneapolis, MN.

Oral Presentations

†Steffen, G., †Bell, C., †Jerry, C., †Morrow, K., Suveg, C., & **Abney, D.H.** (2025). *Multiple timescales of RSA synchrony explain variability in stress reactivity in different ways*. [Conference Presentation]. Society for Research in Child Development Biennial Meeting, Minneapolis, MN.

Gardner, C.R, Renzi-Hammond, L., **Abney, D.H.**, Mesh, C.M., Lin, J., Hammond, B. (2025). *The influence of action video game play on critical flicker fusion*. Association for Research in Vision and Ophthalmology.

Montroy, A., Fyan, M., Lindig, K., Jerry, C., **Abney, D.H.**, Frick, J. (2025). *Maternal facilitation of joint attention in domestic environments: Comparative analysis of naturalistic and structured contexts*. Society for Research in Child Development Biennial Meeting, Minneapolis, MN.

†Howard, C., Wang, F., Harmeyer, K., **Abney, D.H.**, Brown, G., Scharf, N., Geier, C., & Oshri, A. (2025). *Parental early adversity and offspring psychopathological symptoms: Do time scales of dyadic physiological synchrony matter?* Society for Research in Child Development Biennial Meeting, Minneapolis, MN.

Morrow, K., Hale, M., **Abney, D.H.**, Suveg, C. (2025). *Affective mutuality and shared negative affect as moderators of the link between psychopathology symptoms in Latin American parents and preschool children*. Association for Behavioral and Cognitive Therapies.

†Howard, C., Scharf, N., Brown, G., **Abney, D.H.**, Geier, C., & Oshri, A. (2025). *Fluctuations in Stress-Evoked Parent-Adolescent Physiological Synchrony and Parent's Adversity: A Nonlinear Signal Processing Approach*. Society for Research in Child Development Biennial Meeting, Minneapolis, MN.

Abney, D.H., Sheinkopf, S.J., Mitsven, S.G., Seifer, R., Lester, B.M., Tronick, E.Z., Messinger, D.S. (2024). The dynamics of human infant heart rate variability is dependent on mutual positive engagement with their mother. *Biannual Meeting of the International Congress for Infant Studies. Glasgow, Scotland*

Abney, D.H., DaSilva, E.B., Bertenthal, B.I. (2022). Mother-infant eye contact marks changes in physiological regulation and synchrony. *Biannual Meeting of the International Congress for Infant Studies*.

Abney, D.H., Fausey, C., Jayaraman, S., Slone, L.K., Smith, L.B. (2022). The visual ecology of infants in clustered in time. *Biannual Meeting of the International Congress for Infant Studies*.

Borjon, J.I., **Abney, D.H.,** Yu, C., Smith, L.B. (2022). The motor development of vocal production in late infancy. *Biannual Meeting of the International Congress for Infant Studies*.

Bradshaw, J., Vinyard, A., Platt, E., **Abney, D.H.** (2022). Infant attention and physiological arousal during dyadic interactions as predictors of social communication. *Biannual Meeting of the International Congress for Infant Studies*.

Suarez-Rivera, C., **Abney, D.H.**, Tamis-LeMonda, C.S. (2022). Temporal structures of infant vocalizations in the home environment. *Biannual Meeting of the International Congress for Infant Studies*.

Suarez-Rivera, C., **Abney, D.H.**, Fletcher, K.K., Tamis-LeMonda, C.S. (2021). Temporal structures of mother and infant vocalizations are bursty and converge during natural activity at home. *The 5th Lancaster Conference on Infant and Early Child Development*.

Nguyen, R., **Abney, D.H.**, Bertenthal, B.I., & Hoehl, S. (2021). Neural and Physiological Synchrony in Mother-Infant Dyads. *SRCD Virtual Biennial Meeting*.

Abney, D.H., daSilva, E.B., Bertenthal, B.I. (2020). Infant-mother physiological synchrony moderates infant self-regulation. *Biannual Meeting of the International Congress for Infant Studies*.

Abney, D.H., daSilva, E.B., Bertenthal, B.I. (2019). Physiological synchrony between infants and mothers in the still face paradigm. *International Society for Developmental Psychobiology*.

*Borjon, J.I., ***Abney, D.H.**, Yu, C., Smith, L.B. (2019). Attractor dynamics of vocal production in late infancy. *The 4th Lancaster Conference on Infant and Early Child Development*.

*Borjon, J.I., ***Abney, D.H.**, Yu, C., Smith, L.B. (2019). The developmental of vocal-manual coordination in late infancy. *The 20th International Conference of Perception and Action, Groningen, The Netherlands*.

Karmazyn, H., **Abney, D.H.**, Crandall, D., Yu, C., Smith, L.B. (2019). How do infants start learning object names in a sea of clutter? The *41th Annual Meeting of the Cognitive Science Society*.

Abney, D.H. (2019). Finding structure in time: Uncovering clustering dynamics in large, multimodal datasets. *Society for Research in Child Development*.

Abney, D.H. (2019). Finding structure in time: Uncovering clustering dynamics in large, multimodal datasets. *International Convention of Psychological Science*.

Abney, D.H. (2018). Finding structure in time: Uncovering clustering dynamics in large, multimodal datasets. *Biannual Meeting of the International Congress for Infant Studies. [hands-on methods workshop]*

Abney, D.H., Smith, L.B., Yu, C. (2018). Sensorimotor alignment impacts visual attention in infancy. *Biannual Meeting of the International Congress for Infant Studies*.

Abney, D.H., Smith, L.B., Yu, C. (2018). Sensorimotor alignment impacts visual attention in infancy. *North American Meeting of the International Society for Ecological Psychology*.

Abney, D.H., Smith, L.B., Yu, C. (2018). Sensorimotor alignment impacts visual attention in infancy. *Annual Meeting of the Jean Piaget Society*.

Xu, T. L., **Abney, D.H.**, Smith, L.B., Yu, C. (2018). New technologies lead to new discoveries: A case study of using computational algorithms to understand parent-infant interaction. *Biannual Meeting of the International Congress for Infant Studies*.

Slone, L.K., **Abney, D.H.**, Smith, L.B., Yu, C. (2018). The temporal structure of parent speech predicts infant word learning. *Biannual Meeting of the International Congress for Infant Studies*.

Abney, D.H., Dale, R., Kello, C.T., Louwerse, M.M. (2017). Burstiness across multimodal human interaction reveals differences between verbal and non-verbal communication. The *39th Annual Meeting of the Cognitive Science Society*.

Xu, T. L., **Abney, D.H.**, Yu, C. (2017). Discovering Multicausality in the Development of Coordinated Behavior. *The 39th Annual Meeting of the Cognitive Science Society*.

Slone, L. K., **Abney, D.H.**, Smith, L. B. & Yu, C. (2017). *The Burstiness of Parents' Utterances: Classification of Vocal Temporal Structure during Parent-Child Naturalistic Interaction*. Talk presented at the Society for Research in Child Development Biennial Conference, Austin, TX.

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

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

Abney, D.H. & Balasubramaniam, R. (2015). Introduction and applications to the multiscale coefficient of variation analysis (MSCV). Presentation at the Society for Computers in Psychology. Chicago, IL.

Abney, D.H. & Kello, C.T. (2015). Complexity matching in dyadic conversation. Presentation at the 10th Annual Guy Van Orden UConn Workshop on Cognitive 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. Minneapolis, MN.

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 of Ecological Psychology. Minneapolis, MN.

Abney, D.H. & Kello, C.T. (2014). Measuring multiscale temporal clustering in speech signals. Society for Computers in Psychology. Long Beach, CA.

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

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 Chris Kello at the National University of Ireland 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. Presentation at the 17th International Conference of Perception and Action, Lisbon, Portugal.

Abney, D.H., Warlaumont, A. S., Oller D.K., Wallot, S., & Kello, C.T. (2013). The multi-scale dynamics of infants' and caregivers' vocalizations. Presentation at the 3rd meeting of the Society for Complex Systems in Cognitive Science, Berlin, Germany.

Vinson, D.W., & **Abney, D.H.,** (2013). The influence of linguistic and social information on visual memory. Presentation at the 12th International Cognitive Linguistics Conference. Edmonton, Alberta, Canada.

Abney, D.H., & Wagman, J.B. (2012). Intrinsic feedback in recalibration of length perception. Presentation at the 2011 Illinoisy Data Conference, Edwardsville, IL.

Abney, D.H., & Wagman, J.B. (2011). Transfer of recalibration across modalities: Feedback on audition improves haptic perception. Presentation at the 2011 Illinoisy 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, North Carolina.

AWARDS

2026 Alumnus of the Year Award: Early Career. Department of Psychology. *Illinois State University*.

2024 Charles B. Knapp Early Career Scholar Research Award. University-wide award. *University of Georgia*.

2023 Rising Star Award. Owens Institute for Behavioral Research. University-wide award. *University of Georgia*.

2023 Department-wide Outstanding Teaching Award. Department of Psychology. *University of Georgia*.

2022 Student Career Success Influencer Award. *University of Georgia*.

2022 Nominated for Distinguished Early Career Award. *International Congress of Infant Studies.*

2021 Outstanding Teaching Award for Behavioral and Brain Sciences Area. *University of Georgia.*

2016 UC Merced GradSLAM Finalist ($250). *University of California, Merced*

2015 Hatano Cognitive Development Research Fellowship ($1000). *University of California, Merced.*

2012 Charter Department Graduate Student Excellence Award Department of Psychology, *Illinois State University*.

2011 Outstanding Psychology Graduate Assistant Award Department of Psychology, *Illinois State University*.

2010 Rodney L. Custer Graduate Student Research Award Department of Psychology, *Illinois State University*.

2010 The Donald Maley Spirit of Excellence Outstanding Graduate Student Citation International Technology and Engineering Education Association.

2010 Graduate Student of the Year. Department of Technology, *Illinois State University*.

PROFESSIONAL AFFILIATIONS

2016-*present* International Congress of Infant Studies
2014-*present* International Society for Ecological Psychology
2012-*present* Psychonomic Society
2012-*present* Cognitive Science Society
2015-2016 International Environmental Communication Association
2014-2016 Society for Computers in Psychology
2011-2014 Association for Psychological Science
2011-2013 Midwest Psychological Association

TEACHING EXPERIENCE

Instructor of Record, University of Georgia

Spring 2021, Fall 2021	Research Analysis in Psychology (PSYC 3990)
Fall 2020, Fall 2021, Fall 2022	Advanced Experimental Psychology (PSYC 6420)
Spring 2022, Spring 2023, Spring 2024, Spring 2025	Regression (PSYC 6430)

Instructor of Record, University of Cincinnati

Spring 2020	Graduate Statistics II: Regression (PSYC 2015)
Fall 2019	Developmental Psychology (PSYC 2040)

Teaching Assistant, University of California, Merced

Spring 2016	Complex Adaptive Systems (COGS 104)
Fall 2016	Applied Ethics (PHIL 003),
Spring 2015	Introduction to Linguistics (COGS 005)
Fall 2014	Speech Processing (COGS 151)
Fall 2012, Spring 2013	Mind, Brain, & Cognition (COGS 101)

Instructor of Record, Illinois State University

Fall 2009	Technology and the Quality of Life (TEC 275)

MENTORING

University of Georgia

Advisory/Committee Member

2021-2024	Taylor Hobgood (Master's)
2021-2024	Jeffrey Nightingale (Doctoral)
2021-2024	Matthew Gehr (Doctoral)
2021-2022	Luke Armao (Primary Advisor: Master's)
2022-Present	Andrea George (Master's; Doctoral)
2022-Present	Molly Hale (Doctoral)
2021-Present	Christopher Bell (Primary Advisor: Master's; Doctoral)
2021-Present	Colin Gardner (Master's; Doctoral)
2021-Present	Addison Montroy (Master's)
2022-Present	Christian Jerry (Primary Advisor: Master's)
2023-Present	Grace Steffen (Primary Advisor: Master's)
2023-Present	Emily Dumas (Master's)
2023-Present	Yaw Buabeng (Master's)
2023-Present	Cameron Wysocky (Master's)
2023-Present	Anna Knippenberg (Master's)
2023-Present	Margaret Fyan (Master's)
2023-Present	Katherine Lindig (Master's)
2024-Present	Xiaobin Lou (Doctoral)

Undergraduate Research Assistants

2021	Luke Armao (CURO)
2021-2023	Sara Ashley Collins (CURO)
2021-2023	Hamza Syed (CURO)
2021-2022	Nick Edwards
2021-2022	Elizabeth Na
2021-2022	Archie Patel
2021-2023	Brooke Bergeron
2021-2023	Eliana Gelman
2022-2024	Bhumy Patel
2022-2023	Callie Little
2022-2024	Avery Hughes
2022-2024	Sophie Mazzella
2022-present	Bhumy Patel
2023-present	Ava McDonald
2023-present	Amanda Kolberg
2023-present	Angeline Justus

2023-present	Avery Criss
2023-present	Emma Gartland
2023-present	Jade Harris
2023-present	Jemeya Thomas
2023-present	Kaitlyn Meland
2023-present	Sabina Lee
2023-present	Nellie Perno
2023-present	Sabrina Golden
2023-present	Samantha Sands
2023-present	Samira Butts
2023-present	SJ Ellington
2024-present	Alexa Knightlinger
2024-present	Delaney Mendoza

Summer Research Interns

2021	Leila Rosenberg

University of Cincinnati

Advisory/Committee Member

2019-2020	Sarah Schwab (Master's)

Indiana University

Undergraduate Research Assistants

2018-2019	Christian Jerry
2017-2018	Corey Lee
2017-2018	Christine Shepler
2017-2018	Arispa Weigold

External

2022-2024	Anna Madden-Rusnak (Doctoral Committee; UT—Austin)
2022-2024	Megan Micheletti (Doctoral Committee; UT—Austin)
2022	Yu Wei Chua (PhD Thesis Reader; University of Strathclyde)
2025-present	Aidan Ford (CTSA mentor; Emory University)

Visiting Students

2025-present	Elena Capelli (International Research Visit; University of Pavia)

PROFESSIONAL SERVICE

2025-present	Member of Undergraduate Studies Committee. Department of Psychology. University of Georgia
2025-present	Ex officio of Head's Advisory Committee. Department of Psychology. University of Georgia
2025	Search Committee (Lecturer). Department of Psychology. University of Georgia

2025	Search Committee (Tenure-track professor). College of Family and Consumer Sciences. University of Georgia. [External member]
2024	Search Committee (Tenure-track professor). College of Family and Consumer Sciences. University of Georgia. [External member]
2024	Search Committee (Tenure-track professor). Mary Frances Early College of Education. University of Georgia. [External member]
2015	An Evening on Free Will (Co-organizer) University of California, Merced.
2015	Second Annual Symposium on Child and Family. Professional growth event for community child educators University of California, Merced.
2013–2015	Undergraduate Cognitive Science Student Association (CSSA) co-founder/representative University of California, Merced.
2013	Student research talk organizer, Department of Cognitive and Information Sciences. University of California, Merced.
2010	Department Chair search committee (student group), Department of Psychology. Illinois State University.

AD HOC REVIEWING

Academic Journals (>1 review for majority of journals)
American Journal of Psychology; American Journal of Speech-Language Pathology; Attention, Perception, & Psychophysics; Behavior Research Methods; Chaos, Solitons, and Fractals; Child Development; Cognition; Cognitive Science; Complexity; Current Biology; Developmental Science; Developmental Psychology; Development and Psychopathology; Ecological Psychology; Frontiers in Psychology; Human Movement Science; Infant and Child Development; Journal of Experimental Psychology: Human Performance and Perception; Journal of Family Psychology; Journal of Memory & Language; Journal of Vision; Memory & Cognition; Mind and Matter; New Ideas in Psychology; Perception; Phonetics; PLOS One; Proceedings of the National Academy of Sciences; Social, Cognitive, and Affective Neuroscience; Scientific Reports; Speech Communication

Proceedings
Annual Meeting of the Cognitive Science Society (2014, 2015, 2016, 2017, 2018, 2019, 2021, 2023, 2024, 2025)

International Conference on Perception and Action (2015)

Grants: Internal
URC Collaborative Research: PILOT program (2020). University of Cincinnati

Grants: External
NSF: Developmental Sciences
NSF: Perception, Action, and Cognition

European Science Foundation
Macquarie University Research Fellowship

Media

Podcasts

2023 Developmental Psychology, Language, and AI. Jack Roycroft-Sherry's Podcast. 12/15/23.
https://www.youtube.com/watch?v=vPK6TKyEQEE&t=2107s

2023 Sleeping Infants and Waking Mothers: Tales of Developmental Coordination Dynamics. Beyond Phrenology Podcast. 9/7/23.
https://www.youtube.com/watch?v=TOgtkK1I1ps&t=3252s