

Whitney G. Cole

Curriculum Vitae
(September 13, 2018)

CONTACT INFORMATION

Department of Psychology
New York University
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New York, NY 10003
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EDUCATION AND TRAINING

- | | |
|----------------|--|
| 2018 - present | Research Scientist & Co-Investigator Keen Foundation Grant
New York University, New York, NY |
| 2015 - 2018 | Postdoctoral Fellow
Center for Lifespan Psychology
Max Planck Institute for Human Development, Berlin, Germany
Sponsors: Julius Verrel & Ulman Lindenberger |
| 2013 - 2015 | Postdoctoral Researcher
New York University, New York, NY
Sponsor: Karen Adolph |
| 2008 - 2013 | Ph. D., Experimental/Developmental Psychology
New York University, New York, NY
Advisor: Karen Adolph |
| 2006 - 2008 | M.A., Experimental Psychology
The College of William and Mary, Williamsburg, VA
Advisor: Jennifer Stevens |
| 2002 - 2006 | B.A. Summa Cum Laude, Psychology and French
Hollins University, Roanoke, VA |

RESEARCH GRANTS

- | | |
|----------------|---|
| 2018 - present | Whitney Cole, co-Investigator. KEEN Foundation, <i>Effects of footwear on infant walking</i> , (\$310,598 total costs), Karen Adolph, PI. |
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HONORS AND AWARDS

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| 2016 | Travel Award, Deutscher Akademischer Austauschdienst |
| 2015 | Honorable Mention, Aftab Patla Award (Basic Science), ISPGR |
| 2013 | Martin Braine Memorial Dissertation Award, New York University |
| 2011 | Graduate Student Travel Award, New York University |
| 2011 | Society for Research on Child Development Student Travel Award |
| 2010 | NIH Travel Award, International Society for Developmental Psychobiology |
| 2009 | NIH Travel Award, International Society for Developmental Psychobiology |

2008 – 2013	McCracken Graduate Fellowship, New York University
2007	Summer Research Fellowship, College of William and Mary
2006 – 2008	Graduate Student Fellowship, College of William and Mary
2006	Induction into Phi Beta Kappa & Psi Chi
2005	Certificat Pratique de Langue Française, 1 ^e degré
2002 – 2006	Hollins Trustee Award, Hollins University

RESEARCH INTERESTS

Perceptual motor development; motor learning and skill acquisition
 Locomotion; walking, crawling, and brachiating
 Interactions between perception, cognition, and action

PUBLICATIONS

* undergraduate advisees

+ equal contribution

Adolph, K. E., Hoch, J., & **Cole, W. G.** (2018). Development (of Walking): 15 Suggestions. *Trends in Cognitive Sciences*, 22, 699-711.

Lee, D. K.⁺, **Cole, W. G.**⁺, Golenia, L.⁺, & Adolph, K. E. (2018). The cost of simplifying complex developmental phenomena: a new perspective on learning to walk. *Developmental Science*, 21.

Cole, W. G., Robinson, S. R., & Adolph, K. E. (2016). Bouts of steps: The organization of infant exploration. *Developmental Psychobiology*, 58, 341-354.

Campbell, S. K., **Cole, W. G.**, Boynewicz, K., Zawacki, L. A., Clark, A., Gaebler-Spira, D., ... Madhavan, M. (2015). Evolution of functional leg movements in a tethered mobile paradigm in infants with periventricular brain injury. *Pediatric Physical Therapy*, 27, 403-412.

Shapiro, L. J., **Cole, W. G.**, Young, J. W., Raichlen, D. A., Robinson, S. R., & Adolph, K. E. (2014). Human quadrupeds, primate quadrupedalism, and Uner Tan Syndrome. *PLoS ONE*, 9, 1 - 10.

Adolph, K. E., **Cole, W. G.**, & Vereijken, B. (2015). Intraindividual variability in the development of motor skills in childhood. In M. Diehl, K. Hooker, & M. Sliwinski (Eds.), *The Handbook of Intraindividual Variability Across the Lifespan*. New York: Routledge/Taylor & Francis Group, pp. 59-83.

Cole, W. G., Gill, S., Vereijken, B., & Adolph, K.E. (2014). Coping with asymmetry: How infants and adults walk with one elongated leg. *Infant Behavior and Development*, 37, 305 – 314.

Cole, W. G., Chan, G.*, Vereijken, B., & Adolph, K. E. (2013). Perceiving possibilities for action in different motor skills. *Experimental Brain Research*, 10, 309-319.

Adolph, K.E., **Cole, W. G.**, Komati, M., Garciaguirre, J.S., Badaly, D., Lingeman, J.M., Chan, G.* & Sotsky, R.B. (2012). How do you learn to walk? Thousands of steps and dozens of falls per day. *Psychological Science*, 23, 1387 - 1394.

Cole, W. G., Lingeman, J. M., & Adolph, K. E. (2012). Go naked: Diapers affect infant walking. *Developmental Science*, *15*, 783–790.

Stevens, J. A., **Cole, W. G.**, Soueidan, S. A., & Vishton, P. V. (2012). Using touch or imagined touch to compensate for loss of proprioception. *Neurocase*, *18*, 66-74.

MANUSCRIPTS IN PREP & UNDER REVIEW

* undergraduate advisees

+ equal contribution

Cole, W. G., Vereijken, B., Young, J., Robinson, S. R., & Adolph, K.E. (in revision). Use it or lose it? Effects of age, experience, and disuse on quadrupedal gait.

Heiman, C., **Cole, W. G.**, Lee, D. K., & Adolph, K. E. (in revision). Manual actions and walking: Competition or cooperation in infant development?

Cole, W. G., Verrel, J., & Lindenberger, U. (in prep). Step planning in preschool-age children.

Cole, W. G.⁺, Verrel, J.⁺, Lindenberger, U., & Adolph, K. E. (in prep). How crawling infants plan leg movements for navigating obstacles.

Ossmy, O., Hoch, J., Hasan, S., **Cole, W. G.**, & Adolph, K. E. (in prep). Dancing together: The nature of infant-mother locomotor synchrony.

Cole, W. G., & Adolph, K.E. (in prep). Crawling infants' gait modifications on sloping surfaces.

Cole, W. G., Chan, G.*, Vereijken, B. & Adolph, K. E. (in prep). The development of human brachiation.

Campbell, S. K., **Cole, W. G.**, Boynewicz, K., Zawacki, L. A., Clark, A., Gaebler-Spira, D., ... Madhavan, M. (in prep). Longitudinal development of treadmill stepping behavior in infants with periventricular brain injury.

CONFERENCE PRESENTATIONS

* undergraduate advisees

Adolph, K. E., Ossmy, O., Hoch, J., & **Cole, W. G.** (June, 2018). (Re)using video to document procedures, illustrate findings, grow sample sizes, and ask new questions. Presentation given at the International Congress of Infant Studies. Philadelphia, PA.

Hoch, J., Ossmy, O., Han, D., Heiman, C., **Cole, W. G.**, Lee, D. K., & Adolph, K. E. (June, 2018). Learning to walk: Immense and varied input. Presentation given at the International Congress of Infant Studies. Philadelphia, PA.

Vereijken, B., **Cole, W. G.**, Ihlen, E., & Adolph, K. E. (September, 2016). Learning to walk: Identifying independent components and gait domains in newly walking infants. Presentation given at the meeting of the European Society for Movement Analysis in Adults and Children. Seville, Spain.

Verrel, J., **Cole, W. G.**, Lindenberger, U., & Adolph, K. E. (September, 2016). How crawling infants plan leg movements for navigating obstacles. Presentation given at the meeting of the Deutsche Gesellschaft für Psychologie. Leipzig, Germany.

Cole, W. G., Verrel, J., Lindenberger, U., & Adolph, K. E. (May, 2016). How crawling infants plan leg movements for navigating obstacles. Presentation given at the International Conference on Infant Studies. New Orleans, Louisiana.

Cole, W. G., Vereijken, B., Young, J. W., Robinson, S. R., & Adolph, K. E. (June, 2015). Use it or lose it? Effects of disuse on crawling skill. Presentation given at the meeting of the International Society for Posture and Gait Research. Seville, Spain.

Cole, W. G., Mladenovic, D.*, Robinson, S. R., & Adolph, K. E. (March, 2014). Bouts of steps: The organization of infant exploration. Presentation given at the meeting of the Society for Research on Child Development. Philadelphia, Pennsylvania.

Cole, W. G., Young, J., Vereijken, B., Robinson, S. R. & Adolph, K. E. (November, 2014). Old skill, new skill, learning true skill. Presentation to be given at the meeting of the International Society for Developmental Psychobiology. Washington D.C.

Cole, W. G., Robinson, S. R., MacAlpine, P. S., Stone, P., & Adolph, K. E. (July, 2014). Natural infant walking: Efficient for learning. Presentation given at the meeting of the International Society on Infant Studies. Berlin, Germany.

Adolph, K. E., Kretch, K., **Cole, W. G.**, Karasik, L., Franchak, J., Chan, G., Tamis-LeMonda, C. (April, 2013). Effects of crawling and walking on infants' experiences. Presentation given at the meeting of the Society for Research on Child Development. Seattle, Washington.

Cole, W. G., Lingeman, J. M., Chan, G.*, Bendicksen, D.*, Vereijken, B., & Adolph, K. E. (June, 2012). Bimanual gait: Development of human brachiation. Presentation given at the meeting of the International Society for Posture & Gait Research. Trondheim, Norway.

Cole, W. G., Adolph, K. E., Komati, M., Garciguire, J. S., Badaly, D., Lingeman, J. M., Chan, G.* & Sotsky, R. B. (June, 2012). How do you learn to walk? Thousands of steps and dozens of falls per day. Presentation given at the meeting of the International Society for Posture & Gait Research. Trondheim, Norway.

Cole, W. G., Quon, E. & Adolph, K. E. (October, 2009). Brachiation on monkey bars. Presentation given at the meeting of the International Society for Developmental Psychobiology, Chicago, Illinois.

Cole, W. G. (September, 2007). Motor rehabilitation following stroke: From imagination to reality. Colloquium presentation given at the College of William and Mary, Williamsburg, Virginia.

CONFERENCE POSTERS

* undergraduate advisees

Heiman, C., **Cole, W. G.**, Lee, D. K., & Adolph, K. E. (June, 2018). *Manual action and walking: competition or cooperation in infant development?* Poster given at the International Congress of Infant Studies. Philadelphia, PA.

Ossmy, O., Hoch, J., Hasan, S., **Cole, W. G.**, & Adolph, K. E. (June, 2018). Dancing together: The nature of infant-mother locomotor synchrony. Poster given at the International Congress of Infant Studies. Philadelphia, PA.

Ossmy, O., Hoch, J. E., Hasan, S., **Cole, W. G.**, & Adolph, K. E. (November, 2017). Dancing together: The nature of infant-mother locomotor synchrony. Poster given at the meeting of the International Society for Developmental Psychobiology, Washington, DC

Lee, D. K., **Cole, W. G.**, & Adolph, K. E. (June, 2017). Relations between anthropometrics and step-time parameters in infants' first year of walking. Poster given at the meeting of the North American Society for the Psychology of Sport and Physical Activity. San Diego, CA.

Lee, D. K., Golenia, L., **Cole, W. G.**, & Adolph, K. E. (April, 2017). How infants learn to walk: Traditional gait measures and spontaneous walking. Poster given at the meeting of the Society for Research in Child Development. Austin, Texas.

Lee, D. K., Golenia, L., **Cole, W. G.**, & Adolph, K. E. (June, 2016). How infants really walk. Poster given at the meeting of the North American Society for the Psychology of Sport and Physical Activity. Montreal, Canada.

Vereijken, B., **Cole, W. G.**, Lee, D. K., & Adolph, K. E. (May, 2016). Learning to walk: Identifying independent components and gait domains in newly walking infants. Poster given at the International Conference on Infant Studies. New Orleans, Louisiana.

Lee, D. K., Golenia, L., **Cole, W. G.**, & Adolph, K. E. (May, 2016). Natural infants walking. Poster given at the International Conference on Infant Studies. New Orleans, Louisiana.

Cole, W. G., Robinson, S. R., & Adolph, K. E. (June, 2015). Bouts of steps: The organization of infant walking. Poster given at the meeting of the International Society for Posture and Gait Research. Seville, Spain.

Lee, D. K., **Cole, W. G.**, Majumder, O., Hasan, S., & Adolph, K. E. (June, 2015). Natural infant walking. Poster given at the meeting of the North American Society for the Psychology of Sport and Physical Activity. Portland, Oregon.

Lee, D. K., Majumder, O., Jimenez-Robbins, C., **Cole, W. G.**, Hasan, S., Messito, M., Gross, R., Mendelsohn, A., & Adolph, K. E. (June, 2015). Effect of SES and overweight status on infants' motor milestones. Poster given at the meeting of the North American Society for the Psychology of Sport and Physical Activity. Portland, Oregon.

Campbell, S. K., **Cole, W. G.**, Boynewicz, K., Zawacki, L., Clark, A., Kale, D., & Madhavan, S. (May, 2015). Target kicking accuracy in infants with periventricular brain insults: Does early experience matter? Poster given at the meeting of the World Confederation for Physical Therapy. Singapore.

- Cole, W. G.**, Young, J. W., Vereijken, B., Robinson, S. R., & Adolph, K. E. (March, 2015). Use it or lose it? Effects of disuse on crawling skill. Poster given at the meeting of the Society for Research on Child Development. Philadelphia, Pennsylvania.
- Verrel, J., **Cole, W. G.**, Lindenberger, U., & Adolph, K. E. (March, 2015). How crawling infants plan leg movements for navigating obstacles. Poster given at the meeting of the Society for Research on Child Development. Philadelphia, Pennsylvania.
- Hasan, S., Lee, D. K., **Cole, W. G.**, Robinson, S. R., & Adolph, K. E. (March, 2015). Natural locomotor exploration in infants. Poster given at the meeting of the Society for Research on Child Development. Philadelphia, Pennsylvania.
- Lee, D. K., Majumder, O., Jimenez-Robbins, C., **Cole, W. G.**, Hasan, S., Messito, M., Gross, R., Mendelsohn, A., & Adolph, K. E. (March, 2015). Effects of sociocultural and overweight status on infants' motor milestones. Poster given at the meeting of the Society for Research on Child Development. Philadelphia, Pennsylvania.
- Cole, W. G.**, Robinson, S. R., & Adolph, K. E. (November, 2014). Bouts of steps: The organization of infant exploration. Poster to be given at the meeting of the International Society for Developmental Psychobiology. Washington D.C.
- Majumder, O. L., Lee, D. K., Jimenez-Robbins, C., **Cole, W. G.**, Hasan, S., & Adolph, K. E. (November, 2014). Effects of overweight status on infants' motor milestones. Poster to be given at the meeting of the International Society for Developmental Psychobiology. Washington D. C.
- Hasan, S., Lee, D. K., **Cole, W. G.**, Robinson, S. R., & Adolph, K. E. (November, 2014). Locomotor exploration in infants (and their mothers). Poster to be given at the meeting of the International Society for Developmental Psychobiology. Washington D. C.
- Comalli, D. M., Foo, V. J., **Cole, W. G.**, & Adolph, K. E. (November, 2014). Stop, drop, and crawl: Do infants select appropriate forms of locomotion based on the height of an overhead barrier? Poster to be given at the meeting of the International Society for Developmental Psychobiology. Washington D. C.
- Cole, W. G.**, Mladenovic, D.* , Robinson, S. R., & Adolph, K. E. (July, 2014). The ups and downs of infant locomotion over slopes. Poster given at the meeting of the International Society on Infant Studies. Berlin, Germany.
- Cole, W. G.**, Lingeman, J. M., & Adolph, K. E. (June, 2012). Effects of diapers on infant walking. Poster presented at the meeting of the International Society for Posture & Gait Research. Trondheim, Norway.
- Cole, W. G.**, Lingeman, J. M., Chan, G.* , Quon, E., Bendicksen, D.* , Vereijken, B., & Adolph, K. E. (April, 2011). Monkeying around: Development of human brachiation. Poster presented at the meeting of the Society for Research on Child Development. Montreal, Canada.
- Cole, W. G.**, Komati, M., McGwier, M., Lingeman, J. M., & Adolph, K. E. (April, 2011). Walking skill but not walking experience predicts spontaneous walking in infants. Poster

presented at the meeting of the Society for Research on Child Development. Montreal, Canada.

Komati, M., Irvani, S., McGwier, M., Lingeman, J. M., **Cole, W. G.**, & Adolph, K. E. (April, 2011). Walk this way: Developmental changes in spontaneous walking. Poster presented at the meeting of the Society for Research on Child Development. Montreal, Canada.

Cole, W. G., Lingeman, J. M., Komati, M., & Adolph, K. E. (November, 2010). Go naked: Effects of diapers on infant walking. Poster presented at the meeting of the International Society for Developmental Psychobiology. San Diego, California.

Komati, M., Irvani, S., McGwier, M. S., Lingeman, J. M., **Cole, W. G.**, & Adolph, K. E. (November, 2010). Step by step: Developmental changes in spontaneous walking. Poster presented at the meeting of the International Society for Developmental Psychobiology. San Diego, California.

Cole, W. G., & Stevens, J. A. (October, 2007). Finding your place: Overcoming proprioceptive loss via imagined touch. Poster presented at the Neuroscience Symposium, Williamsburg, Virginia.

Cole, W. G., Schriver, J.*, & Stevens, J. A. (March, 2007). Finding your place: Overcoming proprioceptive loss via imagined touch. Poster presented at the North Carolina Cognition Conference, Chapel Hill, North Carolina.

INVITED TALKS

(2017) Department of Psychology, University of Toronto, Toronto, Canada.

(2015) Symposium, Action development: From infancy to adulthood, Radboud University, Nijmegen, The Netherlands

(2014) Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany

SELECTED RESEARCH FEATURED IN PUBLIC MEDIA

2014 [Family That Walks On All Fours Not A Product Of 'Reverse Evolution'](#), io9

2014 [The family that walks on all fours — and why they can't stand up](#), The Washington Post

2014 [Turkish family who walk on all fours AREN'T an example of 'reverse evolution'](#), Daily Mail

2013 *Toddlers Walk Best Naked, but There's a Catch*, The London Times

2013 *The One Thing Standing in the Way of Your Baby Walking*, Slate: How Babies Work

2013 *Diapers Hinder Walking for Babies*, Scientific American

2012 *Mini Marathons: Tireless Toddlers Cover More than 2.5 Miles a Day*, Daily Mail

TEACHING EXPERIENCE

Spring 2015 Guest Lecturer, 'Pre-Operations' and 'Formal Operations'
New York University, New York, NY

Summer 2012 Instructor, 'Developmental Psychology',
New York University, New York, NY

Fall 2011 Teaching Assistant, 'Developmental Psychology',
New York University, New York, NY

Fall 2008	Teaching Assistant, 'Developmental Psychology', New York University, New York, NY
Spring 2008	Teaching Assistant, 'Comparative Psychology', The College of William & Mary, Williamsburg, VA
Fall 2007	Teaching Assistant, 'Research in Cognition and Thinking', The College of William & Mary, Williamsburg, VA
Fall 2007	Teaching Assistant, 'Introduction to Research Methods', The College of William & Mary, Williamsburg, VA
Summer 2007	Teaching Assistant, 'Introduction to Research Methods', The College of William & Mary, Williamsburg, VA
Spring 2007	Teaching Assistant, 'Introduction to Research Methods', The College of William & Mary, Williamsburg, VA
Fall 2006	Teaching Assistant, 'Elementary Statistics', The College of William & Mary, Williamsburg, VA

PROFESSIONAL AFFILIATIONS

Cognitive Development Society, International Society for Developmental Psychobiology, International Society for Infant Studies, International Society for Posture & Gait Research, Society for Research on Child Development

PROFESSIONAL AND ACADEMIC SERVICE

Panel reviewer, Motor & sensorimotor processes, 2016 & 2018 International Conference on Infant Studies
Supervised 1 student on a Master's thesis
Supervised 9 undergraduate and 2 high school students on 6 independent research projects
Advised 1 undergraduate honors thesis, winner of the Departmental Award for Outstanding Undergraduate Honors Thesis
Mentored 1 student who obtained research support from NYU's Dean's Undergraduate Research Fund, 2 students who obtained travel awards from NYU's Dean's Undergraduate Research Fund, and 1 student who received an ICIS Undergraduate Travel Award
Sponsored 6 student presentations at NYU's undergraduate research conference
Assisted at 9 workshops teaching behavioral coding using the Datavyu software and Ruby scripting
Provided online user support for the Datavyu coding software