

# Whitney G. Cole

Curriculum Vitae

(April 25, 2015)

## **CONTACT INFORMATION**

Center for Lifespan Psychology  
Max Planck Institute for Human Development  
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## **EDUCATION AND TRAINING**

2015 - present	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

## **HONORS AND AWARDS**

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
2006	Induction into Psi Chi
2005	Certificat Pratique de Langue Française, 1 <sup>e</sup> 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

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

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. (in press). 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*.

**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., Garciguire, 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

**Cole, W. G.**, Robinson, S. R., & Adolph, K. E. (under review). Bouts of steps: The organization of infant exploration.

**Cole, W. G.**, Leftin, S.\*, Chan, G., Young, J., Robinson, S. R., Vereijken, B., & Adolph, K.E. (in prep). Use it or lose it? Effects of disuse on crawling skill.

**Cole, W. G.**, Chan, G., Leftin, S., Young, J., Robinson, S.R., & Adolph, K.E. (in prep). Creepy crawlly: Infants' locomotion on sloping surfaces.

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

## **CONFERENCE PRESENTATIONS**

\* undergraduate advisees

**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 to be 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, 2015). 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 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

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

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 to be 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 to be 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 to be 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 to be 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 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 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 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 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., Iravani, 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., Iravani, 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.

### **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 [Diapers Hinder Walking for Babies](#), Scientific American

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

Spring 2011         Guest Lecturer, 'Fetal Development'  
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**

American Psychological Association  
Cognitive Development Society  
Eastern Psychological Association  
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**

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  
Provide online user support for the Datavyu coding software and Ruby scripting