

# DANYANG HAN

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## EDUCATION

- 2018 – present    PhD candidate, Cognition and Perception  
New York University, New York, NY  
Advisor: Karen E. Adolph
- 2016 – 2018        M.A., General Psychology  
New York University, New York, NY
- 2012 – 2016        B.S., Applied Psychology  
Advisor: Jie Li  
B.M., Agricultural Economics  
Advisor: Zhong Tang  
Renmin University of China, Beijing, China  
Exchange Student (2014-2015)  
University of California, Davis, Davis, CA

## RESEARCH EXPERIENCE

- 2016 – 2018        Master's Thesis, New York University, Advisor: Karen Adolph
- 2016                Research Assistant, Peking University, Advisor: Yanjie Su
- 2016                Senior Honors Thesis, Renmin University of China, Advisor: Jie Li
- 2016                Senior Honors Thesis, Renmin University of China, Advisor: Zhong Tang
- 2015                Research Assistant, Georgetown University, Supervisor: Elisabeth McClure

## PUBLICATIONS

1. **Han, D.**, & Adolph, K.E. (2021). The impact of errors in infant development: Falling like a baby. *Developmental Science*, e13069. **Featured on journal cover.**
2. Ossmy, O., **Han, D.**, Cheng, M., Kaplan, B., & Adolph, K.E. (2020). Look before you fit: Real-time planning cascade in children and adults. *Journal of Experimental Child Psychology*, 189, 104696.
3. Ossmy, O., **Han, D.**, Kaplan, B., Xu, M., Bianco, C., Mukamel, R., & Adolph, K. E. (2021). Children do not distinguish efficient from inefficient actions during observation. *Scientific Reports*, 11, 18106.
4. Ossmy, O., Kaplan, B., **Han, D.**, Xu, M., Bianco, C., Mukamel, R., & Adolph, K.E. (2022). Real-time processes in the development of action planning. *Current Biology*, 32, 190-199.
5. West, K. L., Soska, K. C., Cole, W. G., **Han, D.**, Hoch, J. E., Hospodar, C. M., & Kaplan, B. E. (2022). From description to generalization, or there and back again. *Behavioral and Brain Sciences*, 45, e1: 67-69.

## **MANUSCRIPTS IN PREPARATION & UNDER REVIEW**

\*joint first authorship

1. **Han, D.**, Cole, W., Joh, A., Liu, Y., Robinson, S., & Adolph K. E. (under review). Pitfall or pratfall? Individual differences in infants' demonstration of learning. *Journal of Experimental Psychology: General*.
2. **Han, D.**, Hoch, J., & Adolph, K. E. (in prep.). Estimating the rate of behavior: Optimal combination of sample size and observation duration.
3. **Han, D.**, Rachwani, J., & Adolph, K. E. (in prep.). Ramping up and falling down: The (in)stability of phenomena across infant development.
4. \*Ossmy, O., \***Han, D.**, Cheng, M., Bianco, C., Kaplan, B., & Adolph K. E. (under review). First "where" then "how": Developmental processes in exploring solutions to problems with hidden demands. *Child Development*.
5. \*Ossmy, O., \***Han, D.**, Hoch, J., MacAlpine, P., Stone, P., & Adolph, K. (in prep.). Walking and falling: Using simulated robots to understand the role of errors in the development of infant walking.

## **SHARED DATASETS**

1. Han, D. & Adolph, K. (2020). The impact factor in infant development: Falling like a baby. Databrary. <https://nyu.databrary.org/volume/1042>
2. Han, D. & Adolph, K. (2022). Pitfall or pratfall? Individual differences in infants' learning from falling. Databrary. <https://nyu.databrary.org/volume/1185>

## **CONFERENCE PRESENTATIONS**

(\*joint first authorship)

1. Han, D., Bhakta A., Robinson S., & Adolph, K. E. (2022, July). Estimating the rate of behavior: Optimal combination of sample size and observation duration. *The International Congress of Infant Studies*, Ottawa, Canada.
2. Hoch, J., Han, D., Hospodar, C., Ossmy, O., & Adolph, K. E. (2022, July). The temporal structure of infant locomotor activity. *The International Congress of Infant Studies*, Ottawa, Canada.
3. Han, D., Rachwani, J., Choudhury, S., & Adolph, K. E. (2021, September). Why infants fall: Development changes the causes of errors as infants acquire new skills. *International Motor Development Research Consortium*.
4. Han, D., Joh, A., Liu, Y., Cole, W., Robinson, S., & Adolph K. E. (2021, April). Learning about a location: Infants navigate a deformable surface based on prior experience. *Society for Research in Child Development*.
5. Han, D., Rachwani, J., Liu, Y., & Adolph, K. E. (2021, April). Why infants fall: Development changes the causes of errors as infants acquire new skills. *Society for Research in Child Development*.
6. Han, D., Rachwani, J., Cheng, M., Liu, Y., & Adolph, K. E. (2020, July). Why do infants fall? Causes of falls across the development of walking. *The International Congress of Infant Studies*, Glasgow, UK. (Conference canceled)

7. Han, D., Joh, A., Liu, Y., & Adolph, K. E. (2020, July). Lessons from errors: The speed and scope of learning from falling. *The International Congress of Infant Studies*, Glasgow, UK. (Conference canceled)
8. Ossmy, O., Han, D., Kaplan, B., Xu, M., Bianco, C., & Adolph, K. E. (2020, May). Looking without noticing: Adults distinguish the means to achieve a goal, but children do not. *Jean Piaget Society*, Philadelphia, PA.
9. Ossmy, O., Han, D., Kaplan, B., Xu, M., Bianco, C., & Adolph, K.E. (2019, October). Observing others when the end-goal is not immediately visible: eye-tracking, convolutional neural networks, and EEG. *Cognitive Development Society*, Louisville, KY.
10. Han, D., Borenstein, H., Hasan, S., Tamis-LeMonda, C., & Adolph, K.E. (2019, March). Falling like a baby: Low-cost errors in infant development. *Society for Research in Child Development*, Baltimore, MD.
11. Ossmy, O., Han, D., Cheng, M., Kaplan, B., & Adolph, K.E. (2019, March). Real-time problem solving in children and adults: The development of predictive planning in object fitting. *Society for Research in Child Development*, Baltimore, MD.
12. Ossmy, O. \*, Hoch, J. \*, Han D., MacAlpine, P., Stone, P., & Adolph, K.E. (2019, March). Walking and falling: Using simulated robots to model variability and error in the development of infant walking. *Society for Research in Child Development*, Baltimore, MD.
13. Ossmy, O., Kaplan, B., Han, D., Xu, M., Bianco, C., & Adolph, K.E. (2019, March). What eye tracking and EEG tell us about the perception of multistep actions in children and adults. *Society for Research in Child Development*, Baltimore, MD.
14. Han, D., Borenstein, H., Hasan, S., Tamis-LeMonda, C., & Adolph, K.E. (2018, July). Falling like a baby: High frequency, low severity, and little evidence of deterrence. *The International Congress of Infant Studies*, Philadelphia, PA.
15. Hoch, J., Rachwani, J., Ossmy, O., Han, D., Heiman C., Cole, W., Lee, D., & Adolph, K.E. (2018, July). Learning to Walk: Immense and Varied Input. *The International Congress of Infant Studies*, Philadelphia, PA.
16. Ossmy, O., Kaplan, B. Han, D., Xu, M., & Adolph, K. E. (2018, March). Development in flexibility in tool use. *Cognitive Neuroscience Society*, Boston, MA, USA.
17. Han, D., Borenstein, H., Hasan, S., Ahmed, Z. M., De Velez, L., Robinovitch, S., & Adolph, K. E. (2017, November). Frequent falls do not deter infants from walking. *International Society for Developmental Psychobiology*, Washington, D.C.
18. Ossmy, O., Kaplan, B., Han, D., Xu, M., & Adolph, K. E. (2017, November). Neural patterns underlying the development of planning in tool use. *International Society for Developmental Psychobiology*, Washington, D.C.
19. Ossmy, O., Kaplan, B., Han, D., Xu, M., & Adolph, K. E. (2017, November). Neural patterns underlying the development of planning in tool use. *Society for Neuroscience*, Washington, D.C.
20. Ossmy, O., Kaplan, B., Han, D., Xu, M., & Adolph, K. E. (2017, October). Neural patterns underlying the development of planning in tool use. Mind in motion: The development of cognitive processes in real time. *Cognitive Development Society*, Portland, OR.

## **HONORS AND AWARDS**

2022

Martin Braine Award, NYU (\$1000)

2019	Travel Award, Society for Research in Child Development (\$300)
2018	MacCracken Fellowship, NYU (\$170,000)
2017	Dean's Student Travel Award, NYU (\$500)
2017	Travel Award, International Society for Developmental Psychobiology (\$400)
2016	Best Senior Honors Thesis, Renmin University of China
2015	Academic Perfection, UC Davis
2014	Scholarship, Chinese Scholarship Council (\$33,495)
2014	Merit Student, Renmin University of China
2013-2015	Dean's List, Renmin University of China

## **TEACHING**

2022	Guest Lecture: Developmental Psychology, New York University Instructor: Vivian Liu
2021	Guest Lecture: Developmental Psychology, New York University Instructor: Melis Muradoglu
2018	Teaching Assistant, Lab in Developmental Psychology, New York University Instructor: Moira Dillon
2017	Teaching Assistant, Developmental Psychology, New York University Instructor: Karen Adolph

## **RESEARCH FEATURES IN PUBLIC MEDIA**

2021	Babies are naturals at the fine art of taking a fall—And it doesn't even slow them down, <i>Early Learning Nation</i>
2021	Toddlers keep falling when toddling, why do they keep going? <i>CogBites</i>

## **STUDENT MENTORING EXPERIENCE**

2021 – 2022	Arnav Bhakta, high school student, Phillips Academy Andover
2021 – 2022	Vidisha Goyal, undergraduate student, New York University
2021 – 2022	Alice Zhou, undergraduate student, New York University
2020 – 2021	Shreya Choudhury, Master's student, New York University
2019 – 2021	Yueqiao Liu, undergraduate student, New York University; recipient of a Dean's Undergraduate Research Fund, New York University
2018 – 2019	Cat Bianco, undergraduate student, New York University; recipient of a Dean's Undergraduate Research Fund, New York University
2017 – 2018	Melody Xu, undergraduate student, New York University; recipient of a Dean's Undergraduate Research Fund, New York University
2017– 2018	Omar El Fadel, undergraduate student, New York University; recipient of a Dean's Undergraduate Research Fund, New York University
2017	Zahin Ahmed, undergraduate student, New York University