June 2025

# DANYANG HAN

Department of Psychology and Behavioral Sciences
Zhejiang University
Hangzhou, China
danyang.han@zju.edu.cn

## PROFESSIONAL EXPERIENCE

| | |
|---|---|
| 2024 – current | Hundred Talents Program Assistant Professor<br>Department of Psychology and Behavioral Sciences<br>Zhejiang University, Hangzhou, China |
| 2023 – 2024 | Postdoctoral Associate<br>New York University, New York, NY<br>Advisor: Karen E. Adolph |

## EDUCATION

| | |
|---|---|
| 2018 – 2023 | Ph.D., Cognition and Perception<br>New York University, New York, NY<br>Advisor: Karen E. Adolph |
| 2016 – 2018 | M.A., General Psychology<br>New York University, New York, NY |
| 2012 – 2016 | B.S., Applied Psychology<br>Advisor: Jie Li<br>B.M., Agricultural Economics<br>Advisor: Zhong Tang<br>Renmin University of China, Beijing, China<br>Exchange Student (2014-2015)<br>University of California, Davis, Davis, CA |

## PUBLICATIONS

(*joint first authorship)

1. Cheng, M., **Han, D.,** Haq, M., Ossmy, O. (in press). Physical cognition in altered gravity: Link between sensorimotor and cognitive adaptability. *iScience*
2. ***Han D.**, *Aziere N., Wang, T., Ossmy, O., Krishna, A., Wang, H., Shen, R., Todorovic, S., & Adolph, K. (2024). Infants' developing environment: Integration of computer vision and human annotation to quantify where infants go, what they touch, and what they see. *Proceedings of the IEEE International Conference on Development and Learning.* [Han and Aziere, shared first authorship] **Best Paper Award of ICDL 2024**
3. **Han, D.**, Cole, W., Joh, A., Liu, Y., Robinson, S., & Adolph K. E. (2023). Pitfall or pratfall? Behavioral differences in infant learning from falling. *Journal of Experimental Psychology: General, 152*, 3243-3265.

4. *Ossmy, O., ***Han, D.,** Hoch, J., MacAlpine, P., Stone, P., & Adolph, K. (2023). Walking and falling: Using simulated robots to model the role of errors in infant walking. *Developmental Science,* e13449. [Ossmy and Han, shared first authorship]. **Han as the winner of the 2023 Developmental Science Early Career Researcher Prize.**
5. 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.
6. 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,* e37.
7. **Han, D.**, & Adolph, K.E. (2021). The impact of errors in infant development: Falling like a baby. *Developmental Science*, e13069. **Featured on journal cover.**
8. 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.
9. 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.

## RESEARCH SUPPORT

| | |
|---|---|
| 2025-2028 | National Key Research and Development Program, co-PI (RMB¥120,000 total costs) |
| 2025-2027 | Chinese National Science Foundation (Grant number 32400886), PI (RMB¥300,000 total costs) |
| 2024-2030 | Research Startup Fund, Zhejiang University |
| 2023-2024 | NYU Postdoctoral Research and Professional Development Support Grants, (Grant number WSQPG-RB751), grant awardee (USD$2392) |

## HONORS AND AWARDS

| | |
|---|---|
| 2025 | Zhejiang Province Talents' Program |
| 2024 | Developmental Science Early Career Researcher Prize ($500) |
| 2022 | Oral Presentation Award, Zhejiang University |
| 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 | Outstanding graduates, Beijing |
| 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 |

## 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? Behavioral differences in infant learning from falling. Databrary. https://nyu.databrary.org/volume/1185
3. Adolph, K., Ossmy, O. & Han, D. (2022). First "where" then "how": Developmental processes in exploring solutions to problems with hidden demands. https://nyu.databrary.org/volume/1415
4. Adolph, K., Ossmy, O. & Han, D. (2022). Walking and falling: Using simulated robots to understand the role of errors in the development of infant walking. https://nyu.databrary.org/volume/1552
5. Han, D. & Adolph, K. (2023). The "developing" environment: How changes in infants' bodies and skills change their tactile, whole-body, and visual access to the environment. https://nyu.databrary.org/volume/1684

## RESEARCH FEATURES IN PUBLIC MEDIA

| | |
|---|---|
| 2021 | You're never too old to be a beginner. *The Wall Street Journal.* |
| 2021 | Babies are naturals at the fine art of taking a fall—And it doesn't even slow them down, *Early Learning Nation* |
| 2021 | Toddlers keep falling when toddling, why do they keep going? *CogBites* |

## INVITED KEYNOTE SPEECH

1. Han, D. (2024, October). Infant development and AI. Beijing Institute for General Artificial Intelligence, Beijing, China.
2. Han, D. (2024, August). Infant development: Errors, input and context. Institute of Psychology, CAS, Beijing, China.
3. Han, D. (2024, May). Infant development: Errors and learning. The 2nd International Conference on Early Child Development and Childcare. Hangzhou, China.
4. Han, D. (2024, January). Infant motor development: Plasticity, Variability, and Flexibility. Child Development and Childcare, Beijing, China.
5. Han, D. (2023, February). Errors and learning in early development. Zhejiang University, Hangzhou, China.
6. Han, D. (2022, December). Errors and learning in early development. Shanghai Jiao Tong University, Shanghai, China.
7. Han, D. (2022, December). Errors and learning in early development. Beijing Normal University, Beijing, China.
8. Han, D. (2022, November). Errors and learning in early development. China East Normal University, Shanghai, China.

## CONFERENCE PRESENTATIONS

(*joint first authorship)

1. Han D., Aziere N., Ossmy O., Wang, H, Shen R., Wang T., Todorovic S., & Adolph K. (2024, July). Infants' "developing" environment: How changes in infants' bodies and skills change their visual, tactile, and whole-body interactions with the world. *The International Congress of Infant Studies*, Glasgow, UK.

2. *Han D., *Aziere N., Wang, T., Krishna, A., Todorovic, S., & Adolph, K. (2024, May). Infants' developing environment: Integration of computer vision and human annotation to quantify where infants go, what they touch, and what they see. *IEEE international conference on Development and Learning,* Austin, TX.
3. Han, D., Aziere, N., Wang, T., Krishna, A., Ossmy, O., Wang, H., Todorovic, S., & Adolph, K. (2023, July). The developing environment: How changes in infants' bodies and skills change their tactile, whole-body, and visual access to the environment. *Minds, Brains, Machines*, New York, NY.
4. *Ossmy, O., *Han, D., MacAlpine, P., Hoch, J., Stone, O., & Adolph, E. (2022, November). Walking and falling: Using simulated robots to model the role of errors in infant walking. *Brain, Artificial Intelligence and Psychological Science*, Hangzhou, China.
5. 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.
6. 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.
7. 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*.
8. 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*.
9. 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*.
10. 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)
11. 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)
12. 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.
13. 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.
14. 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.
15. 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.

16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.

## TEACHING

| | |
|---|---|
| 2025 | Guest Lecture: Research Methods in Social Science, Department of Psychology and Behavioral Sciences, Zhejiang University |
| 2025 | Guest Lecture: MAP Open Class for Masters' Student, Department of Psychology and Behavioral Sciences, Zhejiang University |
| 2024 | Guest Lecture: Research Methods in Social Science, Department of Psychology and Behavioral Sciences, Zhejiang University |
| 2024 | Guest Lecture: MAP Open Class for Masters' Student, Department of Psychology and Behavioral Sciences, Zhejiang University |
| 2022 | Guest Lecture: Developmental Psychology, New York University<br>Instructor: Vivian Liu |
| 2021 | Guest Lecture: Developmental Psychology, New York University<br>Instructor: Dr. Melis Muradoglu |
| 2018 | Teaching Assistant, Lab in Developmental Psychology, New York University<br>Instructor: Dr. Moira Dillon |
| 2017 | Teaching Assistant, Developmental Psychology, New York University<br>Instructor: Dr. Karen Adolph |

## ADVISING

| | |
|---|---|
| 2024 – Current | Fei Yang, doctoral student, Zhejiang University |
| 2025 – Current | Leqi Feng, undergraduate student, Zhejiang University |
| 2024 – Current | Qimuge Huang, undergraduate student, Zhejiang University |
| 2024 – Current | Zhuxiao Xue, undergraduate student, Zhejiang University |
| 2024 – Current | Anxin Yao, undergraduate student, Zhejiang University |
| 2024 – 2025 | Zhanren Shen, undergraduate student, Zhejiang University |
| 2024 – Current | Yidan Wang, undergraduate student, Zhejiang University |
| 2024 | Siyi Zhong, undergraduate student, Zhejiang University |
| 2023 – 2024 | Ruiting Shen, Master's student, New York University |
| 2023 – 2024 | Hanzhi Wang, undergraduate student, Zhejiang University, Visiting Scholar at NYU |
| 2023 | Yuqi Yang, Master's student, New York University |
| 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 |