John Franchak

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Employment and Education

2022-	Associate Professor, Dept. of Psychology, **University of California, Riverside**
2014-2022	Assistant Professor, Dept. of Psychology, **University of California, Riverside**
2013-2014	Post-Doctoral Fellow, Dept. of Psychological and Brain Sciences, **Indiana University** Sponsors: Chen Yu & Linda Smith
2011-2013	Post-Doctoral Researcher, Dept. of Psychology, **New York University** Sponsors: Karen Adolph & David Heeger
2009-2011	Ph.D., Experimental Psychology, **New York University** Advisor: Karen Adolph
2006-2009	M.A., Experimental Psychology, **New York University**
2005-2006	Lab Coordinator, Dept. of Psychology, **Rutgers University, Newark**
2001-2005	B.A., Cognitive Science, **University of Virginia**

Honors and Awards

2020	Visiting Scholar, McPherson Eye Research Institute, University of Wisconsin-Madison
2015	Rising Star, Association for Psychological Science
2014	Intel Best Paper Award "This hand is my hand: A probabilistic approach to hand disambiguation in egocentric video", IEEE Computer Vision and Pattern Recognition
2013	Postdoctoral Fellowship, NICHD Training Grant, 5T32HD7475-17, "Training Program in Integrative Developmental Process", Indiana University
2012	Best Methodological Paper "Understanding the development of motion processing by characterizing optic flow experienced by infants and their mothers", International Conference on Learning and Development
2011	Martin Braine Dissertation Award, New York University
2010	Best Paper Award "Head-mounted eye-tracking of infants' natural interactions: A new method", Eye Tracking Research & Applications
2009	Sandra G. Wiener Student Investigator Award, International Society for Developmental Psychobiology

Research Interests

— Perceptual-motor development (posture, locomotion, reaching)

— Visual exploration in infants', children's, and adults' everyday behaviors

— Development of visual attention while viewing complex, dynamic media

— Motor learning and control (affordances, visual guidance of walking and reaching)

Grant Support

Extramural

2022 to 2025 James S. McDonnell Foundation Opportunity Award: *Characterizing infants' everyday motor and object experiences through computer vision analysis of caregiver-captured video surveys.* **John Franchak, PI, $250,000 3-year project.**

2020 to 2024 NSF BCS-1941449: *Developmental cascades: How motor development alters everyday learning*. **John Franchak, PI, $754,957 4-year total.**

2018 to 2023 NICHD R01-HD-094830: *PLAY (Play and Learning Across a Year)*. Karen Adolph, PI, $6,341,419 total award. **John Franchak, sub-award PI, $18,527 5-year total.**

2018 to 2022 NSF IIS-1763966: *CHS: Medium: Collaborative research: Designing virtual worlds for children - A developmental study of how children act, perceive, and reason spatially*. Robert Bodenheimer, PI, $539,504 total award. **John Franchak, consultant, $24,000 4-year total.**

2018 to 2021 NSF BCS-1749594: *Picture book reading: Investigating a key source of linguistic input for early language development*. Jessica Montag, PI, $427,933 total award. **John Franchak, consultant, $5000 3-year total.**

2018 to 2023 NICHD R01-HD-033486: *Flexibility of learning in infant skill acquisition*, Karen Adolph, PI, total award $3,086,397. **John Franchak, consultant, $25,000 5-year total.**

Intramural

Pending UCR Center for Health Disparities Research FIRST Pilot Grant: *Sociocultural and emotion regulation processes that contextualize health disparities in Latinx children's anxiety*. Elizabeth Davis, PI, $50,000 total award. **John Franchak, co-PI**.

2021 to 2022 UCR Exploration Center for Innovative Teaching & Engagement: Remote Course Conversion Grant. **John Franchak, PI, $8,000 1-year total.**

2021 to 2022 UCR Center for Health Disparities Research Interdisciplinary Research Working Group Award: *Contextualizing Latinx children's developing psychopathology: An interdisciplinary investigation of sociocultural and psychological processes contributing to health disparities in anxiety*. Elizabeth Davis, PI $2,500 total award. **John Franchak, co-PI**.

2019 to 2021 UCR Regents Faculty Development Fellowship: *Characterizing everyday opportunities for learning in the second year of life*. **John Franchak, PI, $5,000 2-year total.**

2015 to 2017 UCR Regents Faculty Fellowship: *Developmental changes in visual experiences over the first year of life*. **John Franchak, PI, $6,000 2-year award total.**

Research

[*]*Denotes student advisee*

Manuscripts Invited/Under Review/In Revision

Jing, M., Kadooka, K.[*], **Franchak, J. M.**, & Kirkorian, K. (under review). The effect of comprehensibility and visual salience on children's and adults' gaze while watching video.

Luo, C.[*], & **Franchak, J.** (under review). Eye-head-body coordination affects the motor-memory trade-off.

Choi, K., Schlesinger, M. A., **Franchak, J. M.**, & Richert, R. A. (under review). Preschoolers' attention to and learning from effortful and efficient on-screen characters: An eye-tracking study.

Peer-Reviewed Publications

Franchak, J. M., & Kadooka, K[*]. (2022). Age differences in orienting to faces in dynamic scenes depend on face centering, not visual saliency. *Infancy*.

Franchak, J. M., Scott, V.[*], & Luo, C.[*]. (2021). A contactless method for measuring full-day, naturalistic motor behavior using wearable inertial sensors. *Frontiers in Psychology, 12,* 701343.

Franchak, J. M., McGee, B.[*], & Blanch, G.[*]. (2021). Adapting the coordination of eyes and head to differences in task and environment during fully-mobile visual exploration. *PLoS One, 16(8)*, e0256463.

Feghhi, I., **Franchak, J. M.**, & Rosenbaum. D. (2021). Towards a common code for difficulty: Navigating a narrow gap is like memorizing an extra digit. *Attention, Perception, & Psychophysics*. `https://doi.org/10.3758/s13414-021-02356-4`

Gagnon, H. C., Rohovit, T., Finney, H., Zhao, Y., **Franchak, J. M.**, Stefanucci, J. K., Creem-Regehr, S. H., & Bodenheimer, R. E. (2021). The effect of feedback on estimates of reaching ability in virtual reality. *Proceedings of the 2021 IEEE Virtual Reality (VR), Lisbon, Portugal*.

Luo, C.[*], & **Franchak, J. M.** (2020). Head and body structure infants' visual experiences during mobile, naturalistic play. *PLoS One, 15*, e0242009.

Kadooka, K.[*], & **Franchak, J. M.** (2020). Developmental changes in infants' and children's

attention to faces and salient regions vary across and within video stimuli. *Developmental Psychology, 56*, 2065-2079.

Franchak, J. M. (2020). Calibration of perception fails to transfer between functionally similar affordances. *Quarterly Journal of Experimental Psychology, 73*, 1311-1325.

Franchak, J. M. (2020). The ecology of infants' perceptual-motor exploration. *Current Opinion in Psychology, 32*, 110-114. [Themed issue on Socio-Ecological Psychology].

Franchak, J. M. (2019). Development of affordance perception and recalibration in children and adults. *Journal of Experimental Child Psychology, 183*, 100-114.

Franchak, J. M. (2019). Changing opportunities for learning in everyday life: Infant body position over the first year. *Infancy, 24*, 187-209.

Labinger, E.*, Monson, J. R.*, & **Franchak, J. M.** (2018). Effectiveness of spontaneous exploration when recalibrating to changing affordances. *PLoS One, 13*, e0209298.

Franchak, J. M., & Somoano, F. A.* (2018). Rate of recalibration to changing affordances for squeezing through doorways reveals the role of feedback. *Experimental Brain Research, 236*, 1699-1711.

Franchak, J. M., Kretch, K. S., & Adolph, K. E. (2018). See and be seen: Infant-caregiver social looking during locomotor free play. *Developmental Science, 21*, e12626.

Slone, L. K., Abney, D. H., Borjon, J. I., Chen, C., **Franchak, J. M.**, Pearcy, D., Suarez-Rivera, C., Xu, T. L., Zhang, Y., Smith, L. B., & Yu, C. (2018). Gaze in action: Head-mounted eye tracking of children's dynamic visual attention during naturalistic behavior. *Journal of Visualized Experiments, 141*, e58496.

Franchak, J. M. (2017). Exploratory behaviors and recalibration: What processes are shared between functionally-similar affordances? *Attention, Perception, & Psychophysics, 79*, 1816-1829.

Adolph, K. E., & **Franchak, J. M.** (2017). The development of motor behavior. *WIREs Cognitive Science, 8*, e1430.

Franchak, J. M., Heeger, D. J., Hasson, U., & Adolph, K. E. (2016). Free viewing gaze behavior in infants and adults. *Infancy, 21*, 262-287.

Franchak, J. M., & Yu, C. (2015). Visual-motor coordination in natural reaching of young children and adults. *Proceedings of the 37th annual meeting of the Cognitive Science Society*.

Nayer, K.*, **Franchak, J. M.**, Adolph, K. E., & Kiorpes, L. (2015). From local to global processing: The development of illusory contour perception. *Journal of Experimental Child Psychology, 131*, 38-55.

Bambach, S., **Franchak, J. M.**, Crandall, D. J., & Yu, C. (2014). Detecting hands in children's egocentric views to understand embodied attention during social interaction. *Proceedings of the 36th annual meeting of the Cognitive Science Society*.

Lee, S., Bambach, S., Crandall, D. J., **Franchak, J. M.**, & Yu, C. (2014). This hand is my hand: A probabilistic approach to hand disambiguation in egocentric video. *Proceedings of the 2014 IEEE Conference on Computer Vision and Pattern Recognition*. [Best Paper Award, CVPR]

Kretch, K. S., **Franchak, J. M.**, & Adolph, K. E. (2014). Crawling and walking infants see the world differently. *Child Development, 85*, 1503-1518.

Franchak, J. M., & Adolph, K. E. (2014). Gut estimates: Pregnant women adapt to possibilities for squeezing through doorways. *Attention, Perception, & Psychophysics, 76*, 460-472.

Franchak, J. M., & Adolph, K. E. (2014). Affordances for action as probabilistic functions: Implications for development, perception, and decision-making. *Ecological Psychology, 26*, 109-124. [Special issue honoring Herb Pick].

Ishak, S., **Franchak, J. M.**, & Adolph, K. E. (2014). Perception-action development from infants to adults: Perceiving affordances for reaching through openings. *Journal of Experimental Child Psychology, 117*, 92-105.

Comalli, D. M., **Franchak, J. M.**, Char, A.*, & Adolph, K. E. (2013). Ledge and wedge: Older and younger adults' perception of possibilities for action. *Experimental Brain Research, 228*, 183-192.

Franchak, J. M., Celano, E. C.*, & Adolph, K. E. (2012). Perception of passage through openings depends on the size of the body in motion. *Experimental Brain Research, 223*, 301-310.

Franchak, J. M., & Adolph, K. E. (2012). What infants know and what they do: Perceiving possibilities for walking through openings. *Developmental Psychology, 48*, 1254-1261.

Raudies, F., Gilmore, R. O., Kretch, K. S., **Franchak, J. M.**, & Adolph, K. E. (2012). Understanding the development of motion processing by characterizing optic flow experienced by infants and their mothers. *Proceedings of the IEEE International Conference on Development and Learning*. [Best Methodological Paper, ICDL].

Franchak, J. M., Kretch, K. S., Soska, K. C., & Adolph, K. E. (2011) Head-mounted eye-tracking: A new method to describe infant looking. *Child Development, 82*, 1738-1750.

Franchak, J. M., & Adolph, K. E. (2010). Visually guided locomotion: Head-mounted eye-tracking of natural locomotion in children and adults. *Vision Research, 50*, 2766-2774.

Franchak, J. M., van der Zalm, D. J.*, & Adolph, K. E. (2010). Learning by doing: Action performance facilitates affordance perception. *Vision Research, 50*, 2758-2765.

Franchak, J. M., Kretch, K. S., Soska, K. C., Babcock, J. S., & Adolph, K. E. (2010). Head-mounted eye-tracking of infants' natural interactions: A new method. *Proceedings of the 2010 Symposium on Eye Tracking Research & Applications*. [Best Paper Award, ETRA].

Book Chapters

Franchak, J. M., & Yu, C. (2022). Beyond screen time: Using head-mounted eye tracking to study natural behavior. In J. Lockman & R. Gilmore (Eds.) *Advances in Child Development and Behavior, Vol 62* (pp. 61-92). Cambridge, MA: Academic Press.

Franchak, J. M. (2020). Visual exploratory behavior and its development. In K. Federmeier & E. Schotter (Eds.) *The Psychology of Learning and Motivation (Vol. 73)*. Special issue: Gazing toward the future: Advances in eye movement theory and applications (pp. 59-94).

Franchak, J. M. (2020). Looking with the eyes and head. In J. Wagman & J. Blau (Eds.) *Perception as Information Detection: Reflections on Gibson's Ecological Approach to Visual Perception* (pp. 205-221). New York: Routledge.

Franchak, J. M. (2017). Using head-mounted eye tracking to study development. In B. Hopkins, E. Geangu, & S. Linkenauger (Eds.), *The Cambridge Encyclopedia of Child Development* (2nd ed., pp. 113-116). Cambridge: Cambridge University Press.

Adolph, K. E., Joh, A. S., **Franchak, J. M.**, Ishak, S., & Gill, S. V. (2008). Flexibility in the development of action. In J. Bargh, P. Gollwitzer, & E. Morsella (Eds.), *Oxford Handbook of Human Action*, New York: Oxford University Press.

Shared Datasets

(2022) *Machine learning classification of infant body position.* doi:10.17605/OSF.IO/WCGA9

(2021) *Adapting the coordination of eyes and head to differences in task and environment during fully-mobile visual exploration. CodeOcean.* doi:10.24433/CO.8767371.v2

(2020) *Head and body structure infants' visual experiences during mobile, naturalistic play. Databrary*. doi:10.17910/b7.1216

(2019) *Transfer of calibration between squeezing and fitting affordances*. doi:10.17605/OSF.IO/ZBN9E

(2018) *Spontaneous exploration in affordance recalibration*. doi:10.17605/OSF.IO/EUGPN

(2015) *Free viewing gaze behavior in infants and adults*. doi:10.17910/B7.192

(2015) *12-month-olds and their caregivers wearing head-mounted eye trackers during spontaneous free play in lab playroom*. doi:10.17910/B7.135

(2015) *Understanding the development of motion processing by characterizing optic flow experienced by infants and their mothers*. doi:10.17910/B7.116

(2015) *Head-mounted eye tracking: A new method to describe infant looking*. doi:10.17910/B7.124.

(2015) *What infants know and what they do: Perceiving possibilities for walking through openings*. doi:10.17910/B7.136

(2013) *Crawling and walking infants see the world differently*. doi:10.17910/B7RP4H

(2013) *Younger and older adults' perception of action possibilities*. doi:10.17910/B7H592

Open-Source Research Software

Dynamic ROI Coder for Matlab. `github.com/JohnFranchak/roi_coder`

Matlab Utilities for Eye Tracking. `github.com/JohnFranchak/et_tools`

Escalator Psychophysical Toolbox. `github.com/JohnFranchak/escalator_toolbox`

Media Coverage

(2018) La Presse. *Les mystères des positions de bébés*. https://bit.ly/2Cqjya7

(2018) Science Daily. *Study explores infant body position and learning*. https://www.sciencedaily.com/releases/2018/10/181023150036.htm

(2011) Simon's Foundation Autism Research Initiative. *Eye-tracking device travels with toddlers*. http://sfari.org/news-and-opinion/toolbox/2011/eye-tracking-device-travels-with-toddlers

(2010) Voices of America, Science/Health News. *New studies reveal infants' world of vision*. http://www.voanews.com/english/news/health/New-Studies-Reveal-Infants-World-Of-Vision-104716684.html

(2010) New York Times. *Looking this way and that, and learning to adapt to the world*. http://www.nytimes.com/2010/08/17/science/17gaze.html

Presentations

[*]*Denotes student advisee*

Conference Organizing

Yu, C., **Franchak, J. M.**, & Castellanos, I. (2022, July). Co-organizer. *Tutorial on using head-mounted eye tracking in infant research*. Preconference Workshop for the International Congress on Infant Studies, Ottawa, Canada.

Yu, C., **Franchak, J. M.**, & Castellanos, I. (2020, July). Co-organizer. *Tutorial on using head-mounted eye tracking in infant research*. Preconference Workshop for the International Conference on Infant Studies, Glasgow, Scotland. [Cancelled]

Yu, C., **Franchak, J. M.**, & Castellanos, I. (2018, June). Co-organizer. *Tutorial on using head-mounted eye tracking in infant research*. Preconference Workshop for the International Conference on Infant Studies, Philadelphia, PA.

Franchak, J. M. (2014, July). Symposium Organizer and Chair. *What head-mounted eye tracking reveals about infants' active vision*. International Conference on Infant Studies, Berlin, Germany.

Conference Papers

Franchak, J. M., Kadooka, K.[*], & Fausey, C. (2022, July). *Longitudinal effects of independent walking on postural and object experiences in home life*. Paper presented at the meeting of the International Congress on Infant Studies, Ottawa, Canada.

Franchak, J. M. (2022, July). *Head-mounted eye tracking data collection and coding*. Paper presented at the Preconference Tutorial on Using Head-Mounted Eye Tracking in Infant Research, International Congress on Infant Studies, Ottawa, Canada.

Kadooka, K.*, Caufield, M.*, Fausey, C., & **Franchak, J. M.** (2021, April). *Visuomotor learning opportunities are nested within infants' everyday activities*. Paper presented at the meeting of the Society for Research in Child Development. [Virtual]

Franchak, J. M. (2021, April). *Measuring infants' naturalistic motor behavior with wearable inertial sensors and machine-learning classification*. Paper presented at the meeting of the Society for Research in Child Development. [Virtual]

Gagnon, H. C., Rohovit, T., Finney, H., Zhao, Y., **Franchak, J. M.**, Stefanucci, J. K., Creem-Regehr, S. H., & Bodenheimer, R. E. (2021, March). *The effect of feedback on estimates of reaching ability in virtual reality*. Paper presented at the 2021 IEEE Virtual Reality meeting. [Virtual]

Franchak, J. M. (2020, July). *Head-mounted eye tracking data collection and coding*. Paper presented at the Preconference Tutorial on Using Head-Mounted Eye Tracking in Infant Research, International Congress on Infant Studies, Glasgow, Scotland. [Talk/Workshop cancelled due to COVID-19]

Lozano-Ziebart, S., Wagman, J. B., **Franchak, J. M.** & Farmer-Dougan, V. (2019, October). *Dogs in the gray zone: Canine perception for going over or under a barrier*. Paper presented at the International Canine Sciences Conference, Phoenix, AZ.

Franchak, J. M. (2018, June). *Head-mounted eye tracking data collection and coding*. Paper presented at the Preconference Tutorial on Using Head-Mounted Eye Tracking in Infant Research, International Congress on Infant Studies, Philadelphia, PA.

Kadooka, K.*, & **Franchak, J. M.** (2017, October). *Eye movement patterns while viewing screen-based media: Age-related changes from infancy to adulthood*. Paper presented at the Cognitive Development Society meeting on Digital Media and Cognitive Development, Portland, OR.

Choi, K. , Schlesinger, M. A.*, Richert, R. A., & **Franchak, J. M.** (2017, May). *Character perceptions guide children's looking to and learning from on-screen characters*. Paper presented at the International Communication Association Annual Conference, San Diego, CA.

Richert, R., Schlesinger, M.*, & **Franchak, J. M.** (2016, October). *Children attend to and learn more from characters who try hard*. Paper presented at the SRCD Special Topic Meeting in Technology and Media in Children's Development, Irvine, CA.

Franchak, J. M., & Yu, C. (2015, July). *Visual-motor coordination in natural reaching of young children and adults*. Paper presented at the meeting of the Cognitive Science Society, Pasadena, CA.

Franchak, J. M., & Adolph, K. E. (2015, July). *Action experience facilitates recalibration to changing affordances when squeezing through doorways*. Paper presented at the International Conference on Perception and Action, Minnesota, MN.

Franchak, J. M., & Yu, C. (2014, July). *Infant's coordination of the eyes, hands, and head while guiding reaching movements*. Paper presented at the International Conference on Infant Studies, Berlin, Germany.

Franchak, J. M., Kretch, K. S., Heeger, D. H., Hasson, U., & Adolph, K. E. (2014, July). *Infants' visual exploration of faces in screen-based and real-world tasks*. Paper presented at the International Conference on Infant Studies, Berlin, Germany.

Franchak, J. M. (2014, July). *Measuring infants' visual exploration with head-mounted eye tracking*. Paper presented at the Preconference Workshop on Head-Mounted Eye Tracking, International Congress on Infant Studies, Berlin, Germany.

Bambach, S., **Franchak, J. M.**, Crandall, D. J., & Yu, C. (2014, July). *Detecting hands in children's egocentric views to understand embodied attention during social interaction*. Paper presented at the 36th annual meeting of the Cognitive Science Society, Quebec City, Canada.

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

Adolph, K. E., & **Franchak, J. M.** (2012, June). *Navigating through tight spots: Learning and recalibration*. Symposium to honor Herb Pick, International Conference on Infant Studies, Minneapolis, MN.

Adolph, K. E., **Franchak, J. M.**, Kretch, K. S., & Soska, K. C. (2011, April). *Head-mounted eye-tracking: A novel method to describe active vision in natural environments*. Paper presented at the meeting of the Society for Research in Child Development, Montreal, Canada.

Franchak, J. M., Kretch, K. S., Soska, K. C., & Adolph, K. E. (2010, March). *Visual exploration during natural interactions: Head-mounted eye-tracking with mobile infants*. Paper presented at the International Conference on Infant Studies, Baltimore, MD.

Franchak, J. M., Kretch, K. S., Soska, K. C., & Adolph, K. E. (2009, October). *Head-mounted eye-tracking of infants during natural interactions*. Paper presented at the meeting of the International Society for Developmental Psychobiology, Sandra G. Wiener Awards Symposium, Chicago, IL.

Franchak, J. M., van der Zalm, D. J.[*], Hartzler, B. M.[*], Adolph, K. E. (2009, June). *Perceiving affordances for navigating through openings*. Paper presented at the 15th International Conference on Perception and Action, Minneapolis, MN.

Franchak, J. M., Adolph, K. E., Gabelman, L.[*], & Babcock, J. S. (2009, April). *Visual guidance of locomotion in children: Navigation from the periphery*. Paper presented at the meeting of the Society for Research in Child Development, Denver, CO.

Franchak, J. M., Adolph, K. E., Badaly, D., & Babcock, J. S. (2008, November). *Navigation from the corner of the eye: Visual guidance of locomotion in children*. Paper presented at the

meeting of the International Society for Developmental Psychobiology, Washington, DC.

Franchak, J. M., Smith, M. T.*, & Adolph, K. E. (2007, November). *Pregnant women walking through doorways*. Paper presented at the meeting of the International Society for Developmental Psychobiology, San Diego, CA.

Franchak, J. M., & Adolph, K. E. (2007, May) *Perceiving changing affordances for action: Pregnant women walking through doorways*. Paper presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Conference Posters

Jing, M., Kadooka, K.*, **Franchak, J. M.**, & Kirkorian, H. (2020, October). *The effect of comprehensibility on saliency-based gaze prediction for children and adults watching video*. Poster presented at the meeting of the International Society for Developmental Psychobiology. [Virtual].

Blanch, G.*, McGee, B.*, & **Franchak, J. M.** (2020, October). *Task demands influence eye-head coordination*. Poster presented at the meeting of the Western Psychological Association [Virtual].

Franchak, J. M., & Kadooka, K.* (2020, July). *Television experience predicts infants' sensitivity to different face-looking cues when viewing videos*. Poster presented at the International Congress on Infant Studies [Virtual].

Kadooka, K.*, McGee, B.*, Truong, T.*, Luo, C.*, & **Franchak, J. M.** (2020, July). *The influence of centering and saliency on infants' real-world visual attention*. Poster presented at the International Congress on Infant Studies [Virtual].

McGee, B.*, Michaels, K.*, & **Franchak, J. M.** (2020, July). *Associative learning modulates infants' attentional selection in a free-viewing task*. Poster presented at the International Congress on Infant Studies [Virtual].

Franchak, J. M. & Kadooka, K.* (2019, October). *Visual saliency guides orienting to dynamic faces in infants, children, and adults*. Poster presented at the Biennial meeting of the Cognitive Development Society, Louisville, KY.

Kadooka, K.*, & **Franchak, J. M.** (2019, October). *Developmental differences in attention to action-specific information*. Poster presented at the Biennial meeting of the Cognitive Development Society, Louisville, KY.

Jing, M., Kadooka, K.*, **Franchak, J. M.**, & Kirkorian, H. (2019, October). *The effect of comprehensibility on saliency-based gaze prediction for children and adults watching Sesame Street*. Poster presented at the Biennial meeting of the Cognitive Development Society, Louisville, KY.

Lozano-Ziebart, S., Wagman, J. B., **Franchak, J. M.** & Farmer-Dougan, V. (2019, August). *Dogs in the gray zone: Canine perception for going over or under a barrier*. Poster presented at the American Psychological Association Convention, Chicago, IL.

Luo, C.*, & **Franchak, J. M.** (2019, March). *Looking compensates for postural constraints: Infants center gaze targets in view when looking*. Poster presented at the Biennial meeting of the Society for Research in Child Development, Baltimore, MD.

Gauvain, M. T., Harmon, D.*, Cheong, Y.*, & **Franchak, J. M.** (2019, February). *An eye tracking study of children's use of plans to construct objects alone and with mother*. Poster presented at the International Convention of Psychological Science, Paris, France.

Luo, C.*, & **Franchak, J. M.** (2018, October). *Spatial structure of mobile infants' visual experiences in natural interaction with caregivers and objects*. Poster presented at the meeting of the International Society for Developmental Psychobiology, San Diego, CA.

Franchak, J. M. (2018, October). *Developing motor abilities alter infants' everyday experiences*. Poster presented at the meeting of the International Society for Developmental Psychobiology, San Diego, CA.

Kadooka, K.*, & **Franchak, J. M.** (2018, July). *Variation in the influence of bottom-up and top-down features on adult-like gaze*. Poster presented at the International Congress on Infant Studies, Philadelphia, PA.

Labinger, E.*, Monson, J. R.*, & **Franchak, J. M.** (2018, April). *Do adults practice effectively when recalibrating to altered motor abilities?*. Poster presented at the meeting of the Western Psychological Association, Portland, OR.

Kadooka, K.*, & **Franchak, J. M.** (2017, October). *Development of adult-like gaze behavior in infants and children when viewing video media*. Poster presented at the 11th Biennial Meeting of the Cognitive Development Society, Portland, OR.

Choi, K., Schlesinger, M. A.*, Grant, C.*, Puttre, H. J., Richert, R. A., & **Franchak, J. M.** (2017, October). *Preschoolers use other's effort as a cue to attention and selective attention*. Poster submitted at the 11th Biennial Meeting of the Cognitive Development Society, Portland, OR.

Schlesinger, M. A.*, Richert, R. A., & **Franchak, J. M.** (2016, August). *Informant effort expenditure impacts young children's learning, eye gaze, and trust*. Poster presented at the 38th Annual Meeting of the Cognitive Science Society, Philadelphia, PA.

Franchak, J. M., & Yu, C. (2016, May). *Infants structure their visual experiences to favor toys over faces during play*. Poster presented at the International Congress on Infant Studies, New Orleans, LA.

Franchak, J. M., Heeger, D. H., Hasson, U., & Adolph, K. E. (2013, April). *Free-viewing gaze behavior in infants and adults*. Poster presented at the meeting of the Society for Research in Child Development, Seattle, WA.

Kretch, K. S., **Franchak, J. M.**, Brothers, J. L.*, & Adolph, K. E. (2012, June). *Effects of locomotor posture on infants' visual experiences*. Poster presented at the International Conference on Infant Studies, Minneapolis MN.

Gilmore, R. O., Raudies, F., Kretch, K. S., **Franchak, J. M.** & Adolph, K. E. (2012, June). *Do you see what I see? Comparing optic flow experienced by infants and their mothers*. Poster

presented at the International Conference on Infant Studies, Minneapolis MN.

Franchak, J. M., Hasson, U., Heeger, D. J., & Adolph, K. E. (2012, May). *Reliability of actors' and observers' gaze during natural tasks*. Poster presented at the meeting of the Vision Sciences Society, Naples FL.

Kretch, K. S., **Franchak, J. M.**, Brothers, J. L.*, & Adolph, K. E. (2012, May). *What infants see depends on locomotor posture*. Poster presented at the meeting of the Vision Sciences Society, Naples FL.

Raudies, F., Kretch, K. S., **Franchak, J. M.**, Mingolla, E., Gilmore, R. O., & Adolph, K. E. (2012, May). *Where do mothers point their head when they walk and where do babies point their head when they are carried?* Poster presented at the meeting of the Vision Sciences Society, Naples FL.

Gilmore, R. O., Raudies, F., Kretch, K. S., **Franchak, J. M.**, & Adolph, K. E. (2012, May). *Patterns of optic flow experienced by infants and their mothers during locomotion*. Poster presented at the meeting of the Vision Sciences Society, Naples FL.

Franchak, J. M., Sadanand, A.*, & Adolph, K. E. (2011, October). *Entrapment or falling: Infants' exploration of action possibilities*. Poster presented at the meeting of the Cognitive Development Society, Philadelphia, PA.

Franchak, J. M., Sadanand, A.*, & Adolph, K. E. (2011, April). *Walls and falls: Infants' motor decisions reflect consequences for errors*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Canada.

Franchak, J. M., & Adolph, K. E. (2010, November). *Tight squeeze: Infants' motor decisions reflect consequences for errors*. Poster presented at the meeting of the International Society for Developmental Psychobiology, San Diego, CA.

Gabelman, L.*, **Franchak, J. M.**, & Adolph, K. E. (2010, March). *Fovea to periphery: The developmental progression of visual guidance during obstacle navigation*. Poster presented at the International Conference on Infant Studies, Baltimore, MD.

Franchak, J. M., Adolph, K. E., Badaly, D., Smith, M. T.*, & Babcock, J. S. (2008, May). *Head-mounted eye-tracking with children: Visual guidance of motor action*. Poster presented at the meeting of the Vision Sciences Society, Naples, FL.

Franchak, J. M., Smith, M. T.*, & Adolph, K. E. (2008, May) *Visual guidance of locomotion in infants, young adults, and the elderly*. Poster presented at the meeting of the Vision Sciences Society, Naples, FL.

Franchak, J. M., Stefanucci, J. K., & Proffitt, D. R. (2006, May). *Within striking distance: Task efficacy influences perceived size and distance*. Poster presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Franchak, J. M., & Shiffrar, M. (2006, May). *Body form and position influence the perceived speed of human gait*. Poster presented at the meeting of the Vision Sciences Society, Sarasota, FL.

Invited Colloquia

2022 Department of Psychology, University of Wisconsin, Madison, Madison, WI
2022 Department of Human Development and Family Studies, University of Wisconsin, Madison, Madison, WI
2019 Institute of Human Development, Univ. of California, Berkeley, Berkeley, CA
2018 Center for Cognition, Action, & Perception, Univ. of Cincinnati, Cincinnati, OH
2018 Department of Psychology, Univ. of California, Los Angeles, Los Angeles, CA
2016 Department of Psychology, Univ. of Nevada, Las Vegas, Las Vegas, NV
2016 Department of Psychology, California State Univ., Long Beach, Long Beach, CA
2015 Center for Mind and Brain, Univ. of California, Davis, Davis, CA
2015 Department of Psychology, Univ. of Oregon, Eugene, OR
2014 Department of Cognitive Science, Univ. of California-San Diego, San Diego, CA
2014 Department of Psychology, Tufts Univ., Medford, MA
2014 Department of Psychology, Univ. of California-Riverside, Riverside, CA
2014 Workshop on Eye Tracking Methods and Analysis, Center for Interdisciplinary Study, Bielefeld Univ., Bielefeld, Germany
2012 Department of Psychology, Bard Univ., Annandale-on-Hudson, NY
2012 Department of Psychology, Rutgers Univ., Newark, Newark, NJ
2012 Department of Psychology, Stony Brook Univ., Stony Brook, NY
2011 Department of Psychology, Univ. of Connecticut, Storrs, CT
2011 Department of Psychology, Princeton Univ., Princeton, NJ
2010 Workshop for Perception and Action, Rauischholzhausen Castle, Germany

Professional Activities and Service

Reviewer Positions

2022- Associate Editor, *Developmental Psychology*
2022 Member, National Science Foundation Review Panel
2021 Member, National Science Foundation Review Panel
2020- Review Editor, Perception Science Editorial Board, *Frontiers in Psychology* and *Frontiers in Neuroscience*
2022 Panel Reviewer, International Congress on Infant Studies
2020 Panel Reviewer, Society for Research in Child Development
2020 Scientific Committee, International Conference on Perception and Action (conference cancelled)
2020 Panel Reviewer, SRCD Special Topics Meeting on Learning Through Play and Imagination
2020 Panel Reviewer, International Congress on Infant Studies
2019 Panel Reviewer, Cognitive Development Society
2018 Panel Reviewer, International Congress on Infant Studies
2017 Panel Reviewer, Society for Research in Child Development
2016 Panel Co-Chair, International Congress on Infant Studies
2016 Panel Reviewer, SRCD Special Topics Meeting on Technology and Media in Children's Development

2015 Scientific Committee, International Conference on Perception and Action

Ad Hoc Reviewer

Behavioral Research Methods
Cambridge University Press
Canadian Journal of Experimental Psychology
Child Development
Child Development Perspectives
Cognition
Cognitive Science
Current Directions in Psychology
Developmental Psychology
Developmental Science
Ecological Psychology
Experimental Brain Research
Experimental Psychology
Frontiers in Psychology
IEEE Virtual Reality
IEEE Visualization and Computer Graphics
Infancy
Infant Behavior and Development
JEP: General
JEP: Human Perception Performance
Journal of Cognition and Development
Journal of Experimental Child Psychology
Journal of Motor Behavior
Journal of Motor Learning and Development
Journal of Nonverbal Behavior
Journal of Vision
National Science Center of Poland
National Science Foundation
Oxford University Press
Perception
Proc. of the National Academy of Sciences
Psychonomic Bulletin & Review
Quarterly Journal of Experimental Psychology
Research Quarterly for Exercise and Sport
Scientific Data
Vision Research

Professional Affiliations

Cognitive Development Society
International Congress on Infant Studies
International Society for Developmental Psychobiology
International Society for Ecological Psychology
Society for Research in Child Development
Vision Sciences Society

Teaching and Advising

Courses Taught

Undergraduate
PSYC 12: Psych. Methods: Research Procedures (W15, F15, F16, F17, S19, S20, U20, F20, U21, F21, U22, S23)
PSYC 166A: Infancy (F19, S23)
PSYC 169: Seminar: Perceptual-Motor Development (F14)
PSYC 169: Seminar: Infant Development (S17)

Graduate

PSYC 207C: Processes of Cognitive Development (S16, S18, S21, S22)
PSYC 258: Seminar: Vision in Everyday Behavior (S17)
PSYC 258: Seminar: Cascades in Development (W20)
PSYC 259: Principles of Data Science (W21, W22)

Student Advisees

Doctoral
Kellan Kadooka (2022)
Brianna McGee (2022)
Chuan Luo (current)
Hailey Rousey (current)
Yushan Guo (current)

Masters
Jenna Monson (2018)

Undergraduate Honors Theses
Madelyn Caufield (2020)
Eli Labinger (2018)
Frank Somoano (2017)
Angela Char (2011, as a postdoctoral mentor)
Emma Celano (2011, as a postdoctoral mentor)
Larissa Gabelman (2009, as a graduate mentor)
Dina van der Zalm (2008, as a graduate mentor)

Undergraduate Research Grants Mentored
Juelle Ford (2022), UCR Student Minigrant
Faizah Ahmed (2022), UCR Student Minigrant
Vivian Huynh (2022), UCR Student Minigrant
Jino Sirivatanarat (2022), UCR Student Minigrant
Gabrielle Blanch (2019), UCR Student Travel Grant
Madelyn Caufield (2019), UCR Student Minigrant
Yee Lat (2019), UCR Student Minigrant
Kelsey Michaels (2019), UCR Student Minigrant
Gabrielle Blanch (2018), UCR Student Minigrant
Tramanh Truong (2018), UCR Student Minigrant
Eli Labinger (2017), Chancellor's Distinguished Fellowship

University Service

2022	Member, UCR Psychology ad hoc Instructional Technology Committee
2019-	Member, UC Riverside Academic Integrity Committee
2019-	Psychology Department Colloquium Series Organizer
2018	Judge, Undergraduate Research Symposium
2017-	Member, Undergraduate Minigrant Review Committee
2017	R'Course Facilitator
2016-2017	Member, Graduate Admissions Committee (Dept. of Psychology)
2015-	Chair, Child Studies @ UCR (`childstudies.ucr.edu`)
2014-2015	Member, Faculty Search Committee (Dept. of Psychology)

Last updated: August 11, 2022