

# Klaus Libertus

Assistant Professor  
Department of Psychology  
University of Pittsburgh  
210 South Bouquet Street  
Pittsburgh, PA 15260

**Nationality:** German (US Green card holder)  
**Date of birth:** November 30<sup>th</sup>, 1979  
**Marital status:** Married, three children  
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## Academic Positions

2017 – present **Assistant Professor of Psychology**  
University of Pittsburgh

2015 – 2017 **Research Assistant Professor**  
University of Pittsburgh

2014 – 2015 **Research Associate**  
Learning Research and Development Center (LRDC)  
University of Pittsburgh

2013 – 2014 **Post-doctoral Research Fellow**  
Infant Language Lab, University of Pittsburgh  
*Lab director: Dr. Jana Iverson*

2010 – 2013 **Post-doctoral Research Fellow**  
Center for Autism and Related Disorders  
Johns Hopkins School of Medicine  
*Lab director: Dr. Rebecca Landa*

## Education

2007 – 2010 **Duke University** **Ph.D.**  
Experimental Psychology (Cognitive Development)  
Thesis: [Object-Directed Action Experiences and their Effect on Cognitive and Social Development](#)  
*Advisors: Amy Needham, Amy Joh*

2005 – 2007 **Duke University** **M.A.**  
Experimental Psychology, Cognitive Neuroscience Certificate  
Thesis: Producing and Observing Actions: The Ontogeny of an Embodied Organism.  
*Advisors: Amy Needham, Kevin Pelphrey*

2001 – 2005 **Universität Osnabrück** **B.Sc.**  
Cognitive Science  
Thesis: [Cross-modal Integration of Natural Visual and Auditory Stimuli](#)  
*Advisors: Peter König, Selim Onat*

## Awards

2023 Department of Psychology Faculty **Excellence in Teaching Award** (nominated)  
2019 **Most Valuable Professor (MVP)**, University of Pittsburgh

2017	<b>Frontiers Spotlight Award</b> finalist
2016	<b>Silfka/Ritvo Innovation in Autism Research Award</b> (\$25,000 in research funds)
2011	<b>Outstanding Post-Doctoral Researcher</b> , Johns Hopkins School of Medicine <b>Building Bridges Award</b> , German Scholars Organization <b>Editor's Choice Award in Developmental Science</b> , for publication " <i>Reaching experience increases face preference in 3-month-old infants.</i> "
2008	<b>James B. Duke Award for Graduate Research</b> , Duke University
2005	<b>DAAD Ph.D. Scholarship</b> , German Academic Exchange Service
2003	<b>CREPUQ Undergraduate Scholarship</b> , McGill University, Canada

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## Grants

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2020 – 2022	<b>University of Pittsburgh Momentum Funds Seed Grant</b> <i>Determinants of executive function development: A motor training study</i> Role: Principal Investigator Total costs: \$13,649.90
2019 – 2023	<b>NICHD (R01-HD-094830)</b> <i>PLAY (Play and Learning Across a Year)</i> Role: Investigator, launch-group member (multi-site project) PI: Karen Adolph, Co-PIs: Catherine Tamis-LeMonda, Rick Gilmore Total costs: \$8,200,364
2018 – 2020	<b>Kennedy Krieger Institute Innovation Grant</b> <i>Phenomenology of Anxiety in Preschool Children with Autism Spectrum Disorders</i> Role: Advisor PI: Roma Vasa Total costs: \$100,000
2017 – 2019	<b>Central Research Development Fund – University of Pittsburgh</b> <i>Infant and Mother Influences on Early Face-to-face Exchanges</i> Role: Principal Investigator Total costs: \$14,761
2016 – 2018	<b>National Science Foundation (Supplement to DUE1534830)</b> <i>Revealing the importance of math-related parent-child interactions via EEG hyper scanning</i> Role: Co-Principal Investigator PI: Melissa Libertus, Co-PI: Aidan Wright Total costs: \$99,194
2016 – 2017	<b>Discipline-Based Science Education Research Center – University of Pittsburgh</b> <i>Less lecture, more doing: Increasing interactivity and student engagement during the Research Methods Laboratory in psychology</i> Role: Principal Investigator Total costs: \$8,471
2015 – 2018	<b>National Science Foundation (DUE1534830)</b> <i>Tell me about math: A longitudinal training study on the effects of</i>

*parent-child interactions and parental cognition on children's math abilities*

Role: Co-Principal Investigator

PI: Melissa Libertus, Co-PI: Aidan Wright

Total costs: \$499,750

2012 – 2014

**Autism Science Foundation**

*The Effects of Active Motor and Social Training on Developmental Trajectories in Infants at High-risk for Autism Spectrum Disorders*

Role: Principal Investigator

Total costs: \$36,000

### Grant Applications / Grants for Mentees

2021

**National Institutes of Health**

Examining the impact of infant motor skill growth on immediate parent-child interactions and subsequent language development

Role: Principal Investigator

NOT FUNDED

2021

**National Science Foundation**

Facilitation and Consequences of Manual Exploration Skills during Infancy

Role: Principal Investigator

NOT funded

2020

**Course Incubator Award, University of Pittsburgh**

*Teaching Statistics for Today's Careers in PSY 0037*

Role: Co-Principal Investigator

NOT funded

2020

**Jacobs Foundation Research Fellowship Program**

NOT funded

2020

**Summer Undergraduate Research Award (SURA), University of Pittsburgh**

Role: Mentor

Awardee: Maura White

\$4000 in summer support for undergraduate student

2018

**Brackenridge Fellowship, Honors College, University of Pittsburgh**

Role: Mentor

Awardee: Kelly Staples

\$4000 award for undergraduate student participating in research

2017 - 2018

**National Institutes of Health**

Influences of motor skill growth on parent communication and subsequent language development

Role: Principal Investigator

NOT funded (submitted twice)

### Peer-reviewed Publications

Underlined names indicate mentored undergraduate students. Citation index on [Google Scholar](#) or [ORCID.org](#)

\* Indicates mentored graduate trainees

† Indicates trainee mentored by other faculty

31. Smith, D.K., Ran, A., **Libertus, K.**, (2022). Influences of Adult Gender and Parenthood on Adult-Child Interaction Style. *Children*, 9 (12), 1804. <https://doi.org/10.3390/children9121804>
30. van den Berg, L., **Libertus, K.**, Nyström, P., Gottwald, J., Gredebäck, G., (2022). A Pre-registered Sticky Mittens Study: Active Training does not appear to Increase Reaching and Grasping. *Child Development*,
29. Smith, D.K., **Libertus, K.**, (2022). The Early Motor Questionnaire revisited: Starting points, standardized scores, and stability. *Journal of Experimental Child Psychology*, 223. Doi: 10.1016/j.jecp.2022.105492
28. Owens, B., **Libertus, K.**, (2022). Are There Postnatal Benefits to Prenatal Kick Counting? A Quasi-Experimental Longitudinal Study. *Frontiers in Psychology*
27. Jones, M.A., Whitaker K.M., Taverno Ross, S.E., Davis, K., **Libertus, K.**, Barone Gibbs, B. (2022). Maternal Sedentary Behavior and Physical Activity across Pregnancy and Early Childhood Growth. *Childhood Obesity*. <https://doi.org/10.1089/chi.2021.0202>
26. Jones, M. A., Whitaker, K. M., Taverno Ross, S. E., Davis, K., **Libertus, K.**, & Barone Gibbs, B. (2021). Maternal Sedentary Behavior and Physical Activity across Pregnancy and Early Childhood Motor Development. *Children* 8(7). <https://doi.org/10.3390/children8070549>
25. Sansavini, A., **Libertus, K.**, Guarini, A., Libertus, M., Benassi, M., & Iverson, J. M. (2021). Understanding Trajectories and Promoting Change from Early to Complex Skills in Typical and Atypical Development: A Cross-Population Approach. *Frontiers in Psychology*, 12, 392.
24. **Libertus, K.** (2020). Scaffolded reaching can encourage motor development: Commentary on van den Berg & Gredebäck (2020). *Developmental Science*, e13079. <https://doi.org/10.1111/desc.13079>
23. Thippana, J., Elliott, L., Gehman, S., **Libertus, K.**, & Libertus, M. (2020). Parents' use of number talk with young children: Comparing methods, family factors, activity contexts, and relations to math skills. *Early Childhood Research Quarterly*. doi:10.1016/j.ecresq.2020.05.002
22. Iverson, J.M., et al., (2019). Early Motor Abilities in Infants at Heightened vs. Low Risk for ASD: A Baby Siblings Research Consortium (BSRC) study. *Journal of Abnormal Psychology*, 128(1), 69-80. doi:10.1037/abn0000390
21. Haworth, J.L., **Libertus, K.**, Landa, R.J. (2018). Social Intervention Impacts Action Anticipation, Goal Extraction, and Social Interest in Children with Autism Spectrum Disorder. *Journal of Educational and Developmental Psychology*, 8(2). Doi: 10.5539/jedp.v8n2p95
20. **Libertus, K.**, Landa, R.J., Haworth, J.L. (2017). Development of Attention to Faces during the First 3 Years: Influences of Stimulus Type. *Frontiers in Psychology*, 8(1976). Doi: 10.3389/fpsyg.2017.01976
19. Needham, A., Wiesen, S.†, Gibson, J., **Libertus, K.**, Christopher, C., (2017). Characteristics of Brief Sticky Mittens Experience That Lead to Increases in Object Exploration. *Journal of Experimental Child Psychology*, 164, 209-224. doi:10.1016/j.jecp.2017.04.009

18. **Libertus, K.,** Libertus, M.E., Einspieler, C., Marschik, P.B. (2017). "What" matters more than "Why" – Neonatal behaviors initiate social responses. *Behavioral and Brain Sciences*, 40, e394. doi:10.1017/S0140525X16001916
17. **Libertus, K.,** & Hauf, P. (2017). Editorial: Motor Skills and their Foundational Role for Perceptual, Social, and Cognitive Development. *Frontiers in Psychology*, 8(301). doi:10.3389/fpsyg.2017.00301
16. Northrup, J. B.†, **Libertus, K.,** & Iverson, J. M. (2017). Response to changing contingencies in infants at high and low risk for autism spectrum disorder. *Autism Research*. doi:10.1002/aur.1770
15. **Libertus, K.,** Greif, M. L., Needham, A., & Pelphrey, K. A. (2016). Infants' observation of tool-use events over the first year of life. *Journal of Experimental Child Psychology*, 152, 123-135. doi:10.1016/j.jecp.2016.07.004
14. **Libertus, K.,** & Violi, D. A. (2016). Sit to talk: Relation between motor skills and language development in infancy. *Frontiers in Psychology*, 7. doi:10.3389/fpsyg.2016.00475
13. **Libertus, K.,** Joh, A., Needham, A., (2015). Motor training at three months affects object exploration 12 months later. *Developmental Science*. doi:10.1111/desc.12370
12. Needham, A., Wiesen, S.†, **Libertus, K.,** (2015). Sticky mittens, prickly Velcro, and infants' transition into independent reaching: Response to Williams, Corbetta, and Guan (2015). *Infant Behavior and Development*, 41, 38-42. doi:10.1016/j.infbeh.2015.05.009
11. **Libertus, K.,** & Landa, R. J. (2014). Scaffolded reaching experiences encourage grasping activity in infants at high risk for autism. *Frontiers in Psychology*, 5: 1071. doi:10.3389/fpsyg.2014.01071
10. **Libertus, K.,** Sheperd, K., Ross, S., Landa, R.J., (2014). Limited fine motor and grasping skills in 6-month-old infants at high risk for autism. *Child Development*, 85(6), 2218-2231. doi:10.1111/cdev.12262
9. **Libertus, K.,** Needham, A. (2014). Face preference in infancy and its relation to motor activity. *International Journal of Behavioral Development*, 38(6), 529-538. doi:10.1177/0165025414535122
8. **Libertus, K.,** Needham, A. (2014). Encouragement is nothing without control: Factors influencing the development of reaching and face preference. *Journal of Motor Development & Learning*, 2(1), 16-27. doi:10.1123/jmld.2013-0019
7. **Libertus, K.,** & Landa, R. J. (2013). The Early Motor Questionnaire (EMQ): A parental report measure of early motor development. *Infant Behavior and Development*, 36(4), 833-842. doi:10.1016/j.infbeh.2013.09.007
6. **Libertus, K.,** Gibson, J., Hidayatallah, N. Z., Hirtle, J., Adcock, R. A., & Needham, A. (2013). Size matters: How age and reaching experiences shape infants' preferences for different sized objects. *Infant Behavior and Development*, 36(2), 189-198. doi:10.1016/j.infbeh.2013.01.006
5. **Libertus, K.,** & Needham, A. (2011). Reaching experience increases face

- preference in 3-month-old infants. *Developmental Science*, 14(6), 1355-1364. doi:10.1111/j.1467-7687.2011.01084.x
4. Needham, A., & **Libertus, K.** (2011). Embodiment in early development. *Wiley Interdisciplinary Reviews: Cognitive Science*, 2(1), 117-123. doi:10.1002/wcs.109
  3. **Libertus, K.**, & Needham, A. (2010). Teach to reach: the effects of active vs. passive reaching experiences on action and perception. *Vision Research*, 50(24), 2750-2757. doi:10.1016/j.visres.2010.09.001
  2. Brannon, E. M., Suanda, S., & **Libertus, K.** (2007). Temporal discrimination increases in precision over development and parallels the development of numerosity discrimination. *Developmental Science*, 10(6), 770-777. doi:10.1111/j.1467-7687.2007.00635.x
  1. Onat, S., **Libertus, K.**, & König, P. (2007). Integrating audiovisual information for the control of overt attention. *Journal of Vision*, 7(10), 1-16. doi:10.1167/7.10.11

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### Chapters

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8. **Libertus, K.**, (2020). Motor development in infants and children. In K. Cohen Kadosh (Ed.) *Oxford Handbook of Developmental Cognitive Neuroscience*.
7. **Libertus, K.**, Smith., D.K.\*, (2020). Milestones: Physical development from Birth to Age 3. In Benson, J.B. (Ed.) *Encyclopedia of Infant and Early Childhood Development (2nd edition)*, vol. 2, pp 339-346.
6. **Libertus, K.** (2018). Fine Motor Delays. In E. Braaten (Ed.) *The SAGE Encyclopedia of Intellectual and Developmental Disorders*
5. **Libertus, K.** (2018). Fine Motor Development. In E. Braaten (Ed.) *The SAGE Encyclopedia of Intellectual and Developmental Disorders*
4. Ruizhe, L. †, Braham, E. †, **Libertus, K.**, (2018). Visual Spatial Skills. In E. Braaten (Ed.) *The SAGE Encyclopedia of Intellectual and Developmental Disorders*
3. **Libertus, K.**, Marschik, P. B., Einspieler, C., Bölte, S. (2015). Frühe Auffälligkeiten bei Autismus Spektrum Störungen. In S. Sachse (Ed.). *Handbuch Sprachentwicklung und Sprachentwicklungsstörung, Band 3 Frühe Kindheit*. Munich, Germany: Elsevier.
2. **Libertus, K.**, Libertus M. (2013). Repetition and learning. In B. Diamant-Cohen & M. A. Hetrick, *Transforming Preschool Story-time*. Chicago, IL: Neal-Schuman Publishers.
1. Needham, A., & **Libertus, K.** (2008). Neonativism. In M. M. Haith & J. B. Benson (Eds.), *Encyclopedia of Infant and Early Childhood Development* (Vol. 2, pp. 406-414). San Diego, CA: Academic Press.

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### Edited Books

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1. **Libertus, K.**, & Hauf, P. (Eds.). (2017). *Motor Skills and their*

*Foundational Role Perceptual, Social, and Cognitive Development.*  
Lausanne, CH. Frontiers Media SA.

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### In Preparation/Under Review

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Ran, A., Libertus, K. (under review). *Unintentional Training? Consequences of Naturalistic Motor Observations*

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### Selected Invited Talks

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2023	<b>Carlow University</b> , Colloquium Talk
2022	<b>Lancaster University</b> , UK, Colloquium Talk (remote)
2021	<b>University of Pittsburgh</b> , Developmental Lunchtime series
2019	<b>Villanova University</b> , Colloquium Talk
2019	Center for Advances of Language Sciences (CALs), Beijing, China. Conference Talk
2017	<b>KU Leuven</b> , Belgium, Colloquium Talk
2016	<b>Bucknell University</b> , Colloquium Talk
2016	<b>East Tennessee State University</b> , Colloquium Talk
2014	<b>Carnegie Mellon University</b> , Developmental Brownbag
2012	<b>Kennedy Krieger Institute</b> , Clinical Brownbag
2011	<b>Center for Autism and Related Disorders</b> , Colloquium Talk <b>Karolinska Institutet</b> , Stockholm, Sweden, Colloquium Talk <b>Justus-Liebig-Universität Giessen</b> , Giessen, Germany Colloquium Talk
2009	<b>Center for Brain and Cognitive Development, Birkbeck College</b> , London, UK, Colloquium Talk <b>University of Zürich</b> , Switzerland, Colloquium Talk

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### Conference Presentations

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#### Symposium Chair

2023	<i>Recent findings on the development of face processing and preferences in early Childhood.</i> Society for Research on Child Development, Salt Lake City, UT.
2017	<i>Mechanisms of Development: Influences of Exploration and Social Engagement on Language, Joint-Attention, and Decision-Making.</i> Society for Research on Child Development, Austin, TX. <i>Motor development: Parental influences and its relation to social-cognitive development.</i> Society for Research on Child Development, Austin, TX.
2014	<i>Actions shape perception: Relations between motor skills and infants' understanding of objects and people.</i> International Conference on Infant Studies, Berlin, Germany
2012	<i>Take it or Leave it: How Cultural, Environmental, and Intrinsic Factors Shape Cognitive and Social Development.</i> International Conference on Infant Studies, Minneapolis, MN <i>Mind the saliency! Infants scanning patterns and attrition rates highlight</i>

- the importance of low-level stimulus properties.* International Conference on Infant Studies, Minneapolis, MN.
- 2011 *Enhancing Development? The Positive Influences of Early Experiences on Development.* Society for Research in Child Development, Montreal, Canada

### Oral Symposium Presentations

- Libertus, K.,** (2019). *What Works? Creative Strategies for Recruitment of Infant Participants.* Society for Research in Child Development, Baltimore, MD.
- Libertus, K.,** (2018). *Motor Growth during Infancy Predicts Early Vocabulary Growth.* Jean Piaget Society Annual Meeting, Amsterdam, Netherlands
- Libertus, K.,** (2018). *Remote assessments of motor skills in infants at high familial risk for ASD.* International Society for Autism Research Annual Meeting, Rotterdam, Netherlands
- Libertus, K., Iverson, J.,** (2017). *Relations Between Manual Exploration and Language Development in Infants with and without ASD.* Society for Research in Child Development, Austin, TX
- Libertus, K., Xiaoyun, X.,** (2017). *Attainment of Sitting and Grasping Skills Affect Parental Engagement and Infants' Subsequent Language Learning.* Society for Research in Child Development, Austin, TX
- Harbourne, R., **Libertus, L.,** (2015). *Moving, Looking, and Learning in Early Intervention Problem Solving through a Child's Eyes.* Section on Pediatrics, Pittsburgh, PA
- Libertus, K., Landa, R.J.,** (2014). *Grasping and Fine Motor Development in Infants at High Risk for Autism Spectrum Disorders.* International Conference on Infant Studies, Berlin, Germany
- Libertus, K., Landa, R.J.,** (2012). *Object Exploration and Engagement in Infants at High Risk for Autism Spectrum Disorders.* International Conference on Infant Studies, Minneapolis, MN
- Libertus, K., Landa, R.J.,** (2011). *Object-Selection Processes in Infant Siblings: Differences between Typical and Atypical Development.* International Meeting for Autism Research, San Diego, CA
- Libertus, K.,** (2011). *Beyond Eye Tracking: The Relation Between Motor Development and Eye Gaze in Young Infants.* EyeTrackKids, Montreal, Canada
- Libertus, K., Needham, A.,** (2011). *Early Reaching Experiences: Immediate, Short-Term, and Long-Term Effects.* Society for Research in Child Development, Montreal, Canada
- Libertus, K., Needham, A.** (2009). *Short- and Long-Term Effects of Simulated Reaching Experience.* Society for Research in Child Development, Denver, CO
- Greif, M.L., Needham, A., **Libertus, K.,** (2009). *The Functional Role of Collision in Tool-Object Interactions.* Society for Research in Child Development, Denver, CO
- Needham, A., **Libertus, K.,** (2007). *Object Exploration and Detection of Attribute Change in Infancy.* Cognitive Development Society, Santa Fe, NM
- Needham, A., **Libertus, K.,** (2007). *Relations Between Action and Perception in Infancy.* Society for Research in Child Development, Boston, MA

### Poster Presentations

39. Smith, D.K.,\* **Libertus, K.** (2023). *Benefits of Prenatal Kick Counting Part 2: Examining Postnatal Reaching and Parent Talk.* Society for Research in Child Development, Salt Lake City, UT.
38. Smith, D.K.,\* **Libertus, K.** (2022). *Do socioeconomic, biological, and parenting factors contribute to individual differences in infant motor development.* International Conference on Infant Studies, Ottawa, Canada.
37. Smith, D.K.,\* **Libertus, K., Necciai, S.,** (2022). *Why does parent gender matter? An exploration of effects of gender vs. effects of parenthood in adult-child interactions.* Cognitive Development Society, Madison, WI
36. Ran, A.,\* **Libertus, K.,** (2021). *Unintentional Consequences: The Impact of Study Participation on Infant Motor Skills.* Society for Research in Child Development, Virtual meeting
35. Smith, D.K.,\* **Libertus, K.,** (2021). *Biology or SES? Examining the factors that impact motor development during infancy.* Society for Research in Child Development, Virtual meeting



34. **Owens, B., Libertus, K.,** (2021). *Fetal kick counting and its effect on parental anxiety*. Society for Research in Child Development, Virtual meeting
33. Smith, D.K.\*, An, R.,\* **Thippana, J., Libertus, K., Necciai, S.,** (2022). *Why does parent gender matter? Gender differences in adult-child interactions: Evidence from non-parent undergraduate students*. Cognitive Development Society, Louisville, KY
32. **Lee, C.** An, R. Smith, D.K.\*, **Libertus, K.,** (2020). *Toy-selection choices by non-parent adults playing with a toddler*. International Conference on Infant Studies, Glasgow, UK
31. **Turingan, J.** An, R. Smith, D.K.\*, **Libertus, K.,** (2020). *Do babies move to get praised? Associations between parental praise and infant motor skills*. International Conference on Infant Studies, Glasgow, UK
30. Smith, D.K.\*, **An, R., Lee, C., Libertus, K.,** (2020). *Gender as a factor influencing number-talk during adult-child interactions*. International Conference on Infant Studies, Glasgow, UK
29. Smith, D.K.\*, **Libertus, K.,** (2020). *Beyond the dichotomy: A new self-report instrument to quantify gender as a continuous construct*. International Conference on Infant Studies, Glasgow, UK
28. Smith, D.K.\*, **Libertus, K.,** (2020). *The Early Motor Questionnaire (EMQ): An exploration of item structure by age*. International Conference on Infant Studies, Glasgow, UK
27. **Libertus, K.,** (2019). *Early Motor Trajectories in High-Risk Infants: A Case Study*. International Society for Autism Research Annual Meeting, Montreal, Canada
26. **Libertus, K.,** (2015). *Sit to Talk: Sitting Skills predict Subsequent Language Development*. Cognitive Development Society, Columbus, OH
25. **Libertus, K.,** Braham, E. J. †, (2015). *Research 2.0: Assessing the Developmental Trajectories of Grasping and Sitting Skills Remotely*. Society for Research in Child Development, Philadelphia, PA
24. **Libertus, K.,** Needham, A., (2014). *Teach to Reach: Effects of Scaffolded Reaching, Parental Encouragement, Object Motion, and Observation on Reaching Onset*. International Conference on Infant Studies, Berlin, Germany
23. **Libertus, K.,** (2014). *Stop Frame Coder (SFC): A Tool for Detailed and Reliable Behavior Quantification*. International Meeting for Autism Research, Atlanta, GA
22. **Libertus, K.,** Iverson, J., (2014). *Learning from Exploration: Manual Exploration Strategies in Infants with and without ASD*. International Meeting for Autism Research, Atlanta, GA
21. **Libertus, K.,** Landa, R.J., (2013). *The Motor and Learning Questionnaire (MLQ): Assessing Early Motor Development via Parent Report*. Society for Research in Child Development, Seattle
20. **Libertus, K.,** Landa, R.J., (2013). *Social Attention in Infancy: Stimulus and Age-related Influence on Face Preference and its Relation to Motor Development*. Society for Research in Child Development, Seattle, WA
19. **Libertus, K.,** Landa, R.J., (2012). *The Motor and Learning Questionnaire: Assessing 3 Domains of the Mullen Scales of Early Learning Via Parent Report*. International Meeting for Autism Research, Toronto, Canada
18. **Libertus K.,** Libertus, M., (2011). *Similarities and Differences in Approximate Numerical Comparisons Between Children and Adults as Revealed by Eye Gaze*. Cognitive Development Society, Philadelphia, PA
17. **Libertus M., Libertus K.,** (2011). *Differences in Strategies during Approximate Numerical Comparisons as Revealed by Eye-gaze Measures*. Association for Psychological Science, Washington, D.C.
16. **Libertus, K.,** Landa, R.J., (2011). *Object Exploration in Infants at Risk for Autism Spectrum Disorders*. Society for Research in Child Development, Montreal, Canada
15. **Libertus, K.,** Needham, A., (2010). *Connections Between Motor Experience and Social Development in Three-month-old Infants*. Cognitive Neuroscience Society, Montreal, Canada
14. **Libertus, K.,** Needham, A., (2010). *Social Cognition in Infancy: Relation Among Eye-Gaze Measures*. International Conference on Infant Studies, Baltimore, MD
13. **Libertus, K.,** Needham, A., (2009). *Reaching Experience and Personality Influence Face-Preference – an Eye-Tracking Study of Infants and Adults*. Cognitive Neuroscience Society, San Francisco, CA
12. Gibson, J., Tsolo, M., **Libertus, K.,** Needham, A. (2009). *Toys that Make Noise: The Effects of Multimodal Early Reaching Experience*. Society for Research in Child Development, Denver, CO
11. Tsolo, M., Needham A., **Libertus K.** (2008). *Effects of Early Learning Experience on Infants' Exploration Skills*. Poster presented at 8<sup>th</sup> Apls Adria Psychology Conference, Ljubljana, Slovenia

10. **Libertus, K.**, Needham, A. (2008). *Effects of Simulated Reaching Experience on Action and Perception*. Infant Studies, Vancouver, Canada
9. **Libertus, K.**, Needham, A., Pelphrey, K.A. (2007). *An Eye-Tracking Study of Face Perception: From Infancy to Adulthood*. Society for Research in Child Development, Boston, MA
8. Greif, M.L., **Libertus, K.**, Needham, A., Pelphrey, K.A. (2007). *An Emerging Understanding of Goal-directed Action: Eye-tracking Infants' Observations of a Tool-use Sequence*. Society for Research in Child Development, Boston, MA
7. Libertus, M., **Libertus, K.**, Suanda, S.H., Woldorff, M., Meck, W., Brannon, E.M. (2007). *Behavioral and Neurophysiological Correlates of Interval Timing in Human Infants follow Weber's Law*. Society for Research in Child Development, Boston, MA
6. **Libertus, K.**, Needham, A., Pelphrey, K.A. (2006). *Visual Exploration of Natural Scenes: A Comparison Between Infants and Adults*. Federation of European Neuroscience Societies Forum, Vienna, Austria
5. **Libertus, K.**, Libertus, M.E., Woldorff, M., Meck, W., Brannon, EM. (2005). *Behavioral and Neurophysiological Correlates of Time Processing in Human Infants*. Society for Neuroscience, Washington, D.C.
4. **Tichacek\*, K.**, Onat, S., König, P. (2005). *Cross-modal Integration of Natural Visual and Auditory Stimuli*. Cognitive Neuroscience Society, New York, NY
3. **Tichacek\*, K.**, Onat, S., König, P. (2005). *Cross-modal Integration in Overt Attention under Natural Conditions*. German Neuroscience Society, Göttingen, Germany
2. Engmann, S., **Tichacek\*, K.**, Einhäuser, W., König, P. (2005). *Integration of Luminance- and Color Contrast of Natural Visual Stimuli in Overt Attention*. German Neuroscience Society, Göttingen, Germany
1. Schall, S., **Tichacek\*, K.**, Engmann, S., Onat, S., König, P. (2005). *The Influence 2<sup>nd</sup> Order and Higher-order Correlations in Natural Visual Stimuli on Human Overt Attention*. German Neuroscience Society, Göttingen, Germany

\* Legal name was changed in 2005 from Klaus Tichacek to Klaus Libertus.

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## Teaching

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2022 – present	<b>Social Development (Instructor), University of Pittsburgh</b> Graduate-level seminar (9 students)
2022 – present	<b>Developmental Psychology (Instructor), University of Pittsburgh</b> Large overview course for undergraduates (250 students)
2021 – present	<b>Honors' Thesis Seminar (Instructor), University of Pittsburgh</b> Advanced undergraduate seminar (20-30 students) Taught for two semesters
2020 – present	<b>Infancy (Instructor), University of Pittsburgh</b> Graduate-level seminar (15 students) Taught for two semesters
2015 – present	<b>Infancy (Instructor), University of Pittsburgh</b> Undergraduate-level course (30-42 students) Taught for three semesters
2014 – 2021	<b>Research Methods in Psychology Lab (Instructor), University of Pittsburgh</b> Writing-intensive undergraduate level lab Taught for 14 semesters Coordinated graduate teaching fellows of 10 additional sections for 10 semesters
2007 – 2008	<b>Perception and Brain (Teaching Fellow), Duke University</b> Undergraduate seminar with lab portion taught independently by TF (10 students), taught for 2 semesters

2006 – 2008

**Biological Bases of Behavior (Teaching Fellow), Duke University**

Undergraduate lecture with discussion section taught independently by TF (20 students), taught for 2 semesters

## Mentoring

2013 – present

**University of Pittsburgh**

- Graduate student primary mentor (2):
  - Darcy K. Smith; Ran An
- Graduate student committee member (4):
  - Joshua L. Schneider, Kelsey L. West (Psychology Department)
  - Melissa A. Jones (Department of Health and Physical Activity)
  - Sarah Bigelow (Department of Public Health)
- Undergraduate honors thesis committee chair (4):
  - Brenna Owens, Elise Dubois, Noah Cenkner, Eli Anish
- Undergraduate honors thesis committee member (5):
  - Erinn Hanner, Kelly Staples, Margaret Fulcher, Morgan Kistler, Sivan Lurie
- Research supervision for a total of 75 undergraduate students since 2017
  - Student authors on published articles:
    - Dominic A. Violi
    - Brenna Owens

2010 – 2013

**Kennedy Krieger Institute / Johns Hopkins University**

- Research supervision for a total of 3 undergraduate students since 2010
  - Student authors on published articles:
    - Samuel Ross

2005 – 2010

**Duke University**

- Research supervision for a total of 7 undergraduate students since 2005
  - Student authors on published articles:
    - Nadja Hidayatallah
    - Maja Tsolo

## Professional Activities and Service

Associate Editor Memberships2017 – present      **Frontiers in Psychology**2018 – 2020      **Child Development**Ad hoc journal reviewing

Reviewed for over **30 journals**. Please see my public profile on Publons for an up-to-date peer review record. <https://publons.com/a/836372>.

Conference reviewing**Panel chair**

**2023**      International Congress of Infant Studies (ICIS) bi-annual meeting: *Motor and Sensorimotor processes*

2022	Society for Research in Child Development bi-annual meeting: <i>Perceptual, Sensory, Motor panel</i>
2022	International Congress of Infant Studies (ICIS) bi-annual meeting: <i>Motor and Sensorimotor processes</i>
2017	Society for Research in Child Development bi-annual meeting: <i>Perceptual, Sensory, Motor panel</i>

#### Ad hoc conference reviewer

- Society for Research in Child Development (SRCD)
- International Congress on Infant Studies (ICIS)
- International Meeting for Autism Research (IMFAR)
- Cognitive Development Society (CDS)

#### Consortium Memberships

##### **Autism Speaks Baby Siblings Research Consortium (BSRC)**

Associate Member

Participate in meetings, share data, collaborate on joint projects

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## References

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