

Curriculum Vitae (October, 2023)**ORI OSSMY****POSITIONS**

- 2021-present Lecturer (Assistant Professor)
Centre for Brain and Cognitive Development
School of Psychological Sciences
Birkbeck, University of London
London, UK
- 2017-2021 Post-doctoral Associate
Department of Psychology & Center for Neural Science
New York University, New York, NY, USA
Host: Prof. Karen E. Adolph

EDUCATION

- 2012-2016 Ph.D., Neuroscience, Tel Aviv University, Tel Aviv, Israel
Supervisor: Prof. Roy Mukamel
- 2011-2012 M.Sc., Neuroscience, Tel Aviv University, Tel Aviv, Israel
Supervisor: Prof. Roy Mukamel
- 2006-2010 B.Sc., Software Engineering, Ben-Gurion University, Beer-Sheva, Israel
Graduated Magna Cum-Laude

GRANTS

- 2023-2027 Research grant, Leverhulme Trust (£479,687; Role: PI; Title: "The effects of multi-modal information on the development of action planning")
- 2023-2026 Bloomsbury College Fellowship grant (Role: PI; Title: "Better together: Multi-sensory social intervention to improve spatial skills in primary education")
- 2023-2025 Human Cognitive and Behavioral Science grant, Simons Foundation (£418,376; Role: PI; Title: "Identifying early markers of ASD in naturalistic motor behavior")
- 2023-2024 Research grant, The Waterloo Foundation (£64,890; Role: PI; Title: "Real-time mechanisms underlying short-term and long-term effects of physical activity on problem-solving skills in children with ADHD")
- 2022-2025 New Investigator grant, UKRI Economic and Social Research Council (£304,868; Role: PI; Title: "Real-time approach to the development of human problem solving")
- 2021-2023 Wellcome Trust Institutional Strategic Support Fund (£31,162; Role: PI; Title: "Real-time approach to the development of human planning")
- 2021-2023 British Academy Talent Award (£9,990; Role: PI; Title: "Integrating developmental science and engineering to study natural human play")
- 2018-2019 Blavatnik Interdisciplinary Cyber Research Center grant (\$165,706; Role: Post-doctoral advisor; Title: A novel technology to detect deceptive behaviour")
- 2017-2019 NSF/SBE-BSF 1627993 grant (\$293,783; Role: Post-doctoral Fellow; Title: "Neural patterns underlying the development of planning in action production and anticipation in action perception")
- 2017-2018 Joy Ventures grant (\$20,000; Role: Co-PI; Title: "EEG-tACS closed loop application for enhancing cognitive and learning potentials")

AWARDS

- 2023 Best Supervisor Award, Birkbeck Student Union
- 2022 Innovative Methods Award, British Psychology Society (BPS) - Developmental Section
- 2022 Distinguished Early Career Award, International Congress of Infants Studies (ICIS)
- 2022 Investigator Award, International Society for Developmental Psychobiology (ISDP)
- 2021 Elsevier/Vision Research Virtual Award, Vision Sciences Society
- 2020 Postdoc Abstract Award, International Society for Developmental Psychology
- 2019 Postdoctoral Award, NYU Faculty of Arts & Sciences
- 2019 Early Career Travel Award, Society for Research in Child Development
- 2017 Trainee Professional Development Award, Society for Neuroscience

2017	Travel Award, International Society for Developmental Psychology
2013	Honor Scholarship of Scientific Research, President of the State of Israel
2013	Yosef Sagol Scholarship of Brain Research, Tel Aviv University
2016	Science Award, Ministry of Science, Technology & Space, Israel
2016	Alfa Excellency Program Scholarship to Mentor High-school Students
2015	Science Award, Sagol School of Neuroscience, Tel Aviv University
2015	Travel Award, Adams Super Center for Brain Studies
2014	Sieratzki Prize for Students in Neuroscience
2014	Trotzky Scholarship for Research
2010	Project Excellence Award in Engineering

PEER-REVIEWED PUBLICATIONS (* joint first authorship)

- Hascher, S., Shuster, A., Mukamel, R., **Ossmy, O.** (accepted). The power of multivariate patterns in identifying EEG correlates of interlimb coupling.
- **Ossmy, O.***, Han, D.*, MacAlpine, P., Hoch, J., Stone, P., & Adolph, K. E. (2023). Walking and falling: using robot simulations to model the role of errors in infant walking. *Developmental science*, e13449.
- Dexter, M., & **Ossmy, O.** (2023). The effects of typical ageing on cognitive control: recent advances and future directions. *Frontiers in Aging Neuroscience*, 15.
- **Ossmy, O.**, Kaplan, B., Han, D., Xu, M., Mukamel, R., Adolph, K.E. (2022). Real-time processes in the development of action planning. *Current Biology* 32, 1–10.
- **Ossmy, O.**, Mansano, L., Frenkel-Toledo, S., Kagan, E., Koren, S., Gilron, R., Reznik, D., Soroker, N., Mukamel, R. (2022). Motor learning in Hemi-Parkinson using VR-manipulated sensory feedback. *Disability and Rehabilitation: Assistive Technology*, 1-13
- Shuster, A., Inzelberg, L., **Ossmy, O.**, Izakson, L., Hanein, Y., Levy, D. (2021). Lie to my face: An electromyography approach to deceptive behavior. *Brain and Behavior*, e2386
- **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(1), 1-13.
- Le, H., Hoch, J., **Ossmy, O.**, Adolph, K., Fern, X., Fern, A. (2021). Modeling infant free play behavior using hidden markov models. *Proceedings of the IEEE International Conference on Development and Learning (ICDL)*, pp. 1-6
- Hoch, J.*, **Ossmy, O.***, Hasan, S., Cole, W., Adolph, K.E. (2021). “Dancing” together: Infant-mother locomotor synchrony. *Child Development*, 92(4), 1337-1353
- **Ossmy, O.**, Adolph, K.E. (2020). Real-time assembly of coordination patterns in human infants. *Current Biology*, 30, 1-10
- Lakertz, Y.*, **Ossmy, O.***, Friedmann, N., Mukamel, R., Fried, I. (2021). Single-cell activity in human STG during perception of phonemes is organized according to manner of articulation. *NeuroImage*, 226, 117499.
- **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
- **Ossmy, O.**, Mansano, L., Frenkel-Toledo, S., Kagan, E., Koren, S., Gilron, R., Reznik, D., Soroker, N., Mukamel, R. (2020). Motor learning by cross education in Hemi-Parkinson’s disease: Case study of the effects of virtual mirrored sensory feedback. *2019 International Conference on Virtual Rehabilitation (ICVR), Tel Aviv, Israel, 2019*, pp. 1-9
- **Ossmy, O.**, Gilmore, R. O., & Adolph, K. E (2020). AutoViDev: A computer-vision framework to enhance and accelerate research in human development. In K. Arai & S. Kapoor (Eds.), *Advances in computer vision: CVC 2019. Advances in Intelligent Systems and Computing*, 944. Springer.
- Adolph, K. E., Hoch, J. E., & **Ossmy, O.** (2020). James Gibson’s ecological approach to locomotion and manipulation: Development and changing affordances. In J. Wagman & J. Blau (Eds.). *Perception as information detection: Reflections on Gibson’s ecological approach to visual perception*. New York: Taylor & Francis, pp. 248-266
- Karasik, L., Tamis-LeMonda, C.S., **Ossmy, O.**, Adolph, K.E. (2018). The ties that bind: Cradling in Tajikistan. *Plos One* 13:e0204428

- **Ossmy, O.***, Hoch, J.* , MacAlpine, P., Hasan, S., Stone, P., Adolph, K.E. (2018). Variety wins: Soccer-playing robots and infant walking. *Frontiers in Neuro-robotics*, 12:19
- **Ossmy, O.**, Mukamel, R. (2018). Perception as a route for transfer of motor knowledge: Perspectives from human neuroscience. *Neuroscience*, 382:144-153
- Aridan N.* , **Ossmy, O.***, Mukamel, R. (2018). EEG mu wave suppression during action observation corresponds with subsequent individual changes in execution. *Brain Research*, 1691:55-63
- **Ossmy, O.**, Mukamel, R. (2017). Behavioral and neural effects of congruency of visual feedback during short-term motor learning. *NeuroImage*, 172:864-873
- **Ossmy, O.**, Mukamel, R. (2017). Using virtual reality to transfer motor skill knowledge from one hand to another. *Journal of Visualized Experiments: JoVE*, (127)
- **Ossmy, O.**, Mukamel, R. (2017). Short term motor-skill acquisition improves with size of self-controlled virtual hands. *PLoS One*, 12(1), e0168520
- **Ossmy, O.**, Mukamel, R. (2016). Neural network underlying intermanual skill transfer in humans. *Cell Reports*, 17:2891-2900
- **Ossmy, O.**, Mukamel, R. (2016). Activity in superior parietal cortex during training by observation predicts asymmetric learning levels across hands. *Scientific Reports*, 6:32133
- **Ossmy, O.**, Fried, I., Mukamel, R. (2015). Decoding speech perception from single cell activity in humans. *NeuroImage*, 117:151-159
- Reznik, D., **Ossmy, O.**, Mukamel, R. (2015). Enhanced auditory evoked activity to self-generated sounds is mediated by primary and supplementary motor cortices. *The Journal of Neuroscience*, 35:2173-2180
- **Ossmy, O.**, Ben-Shachar, M., Mukamel, R. (2014). Decoding letter position in word reading. *Cortex*, 59:74-83
- **Ossmy, O.***, Moran, R.* , Pfeffer, T., Tsetsos, K., Usher, M., & Donner, T. H. (2013). The timescale of perceptual evidence integration can be adapted to the environment. *Current Biology*, 23:981-986
- **Ossmy, O.**, Tam, O., Puzis, R., Rokach, L., Inbar, O., & Elovici, Y. (2011). MindDesktop - computer accessibility for severely handicapped. *ICEIS*:316-320

PREPRINTS/UNDER REVIEW:

- **Ossmy, O.**, & Mukamel, R. (in revision). Parcellating the brain function using unsupervised clustering.
- **Ossmy, O.***, Han, D.* , Cheng, M., Bianco, C., Kaplan, B., & Adolph, K.E. (in revision). “Where” and “how”: Developmental processes in exploring solutions to problems with hidden demands.
- Grandchamp Des Raux, H., Planells, H., **Ossmy, O.** (under review). Active and variable training improves the ability to solve planning problems.
- Grandchamp Des Raux, H., Soderberg, C., **Ossmy, O.** (under review). The Embodiment of common sense: Insights from late childhood.
- Grandchamp Des Raux, H., Ghilardi, T., **Ossmy, O.** (under review). The Effects of Rewards on Trial-and-Error Learning in School-Aged Children.
- Cheng, M., Han, D., **Ossmy, O.** (under review). Embodied learning and physical reasoning in altered gravity environments.
- Mcauley, H., **Ossmy, O.** (under review). Better together: Classroom-based social intervention for spatial skills.
- Soderberg, C., Cherry, L., Hoetter, J., **Ossmy, O.** (under review). Extended reality in STEM: A modernized education tool for children.

MANUSCRIPTS IN PREPARATION (* joint first authorship):

- **Ossmy, O.**, Adolph, K.E. (in prep). Let the data work for you: How machine learning can advance research in human development
- Grandchamp Des Raux, H., Ferre, E.R., **Ossmy, O.** (in prep). Real-Time Embodied Experience Affects High-Level Reasoning.
- Dexter, M., **Ossmy, O.** (in prep). How inhibitory control and information search affect planning skills in older adults.

PATENTS

Ossmy, O., Tam, O., Rozen, A., & Puzis, R. European Patent 20110008206. Designation as inventor.

PROFESSIONAL ACADEMIC SERVICE

- 2022-present Review Editor, *Frontiers in Cognition*
- 2022-present Workshop organizer. International Workshop for Naturalistic Experimentation of Child Development (NECD) for first-generation PhD students.
- 2022-present Workshop organizer. Extended Reality in Educational and Developmental Psychology.
- 2020-present Topic Editor, *Brain Sciences*
- 2019-present Workshop organizer: *Datavyu, AutoViDev*
- 2017-present Workshop mentor: *Datavyu, Databrary*
- 2013-present Small workshop organizer/mentor: MATLAB, R, Python, machine learning principles
- 2014-present Ad-hoc reviewer: *Developmental Science, NeuroImage, eLife, Perspective on Psychological Science, Developmental Psychology, Infancy, Journal of Experimental Child Psychology, Human Movement Science, Brain Sciences, Scientific Reports, Scientific Data, Frontiers in Neurorobotics, Frontiers in Robotics and AI, Frontiers in Human Neuroscience, Frontiers in Psychology, Frontiers in Cognition, Plos One, International Congress of Infants Studies, Applied Science*
- 2016 Workshop organizer: *What do we do after getting PhD?*

PROFESSIONAL EXPERIENCE

- 2022-present *Hera*
Advisory Board
Providing consultancy to tracking app of human development.
- 2021-present *New York University*
Research consultancy
Support data collection, analyses, and finding dissemination of DARPA-funded project on machine-learning common sense.
- 2008-2015 *Microsoft, Israel R&D Center*
Software Development Engineer (SDE)
Coding for Microsoft products, software designs, and user-interface development in business intelligence, security essentials and enterprise management.
- 2007-2008 *Intel, Fab-18, Israel*
Development Engineer (SDE)
Developed products for Intel factories and adjusting existing systems to .NET.

CONFERENCE PRESENTATIONS & INVITED TALKS

- Ossmy, O.** Han, D., Adolph, K.E. (2023, September). Using robot simulations to model the role of errors in infant walking. *British Psychology Society conference - Developmental & Cognitive Sections*. Bristol, UK
- Ossmy, O.** Han, D., Adolph, K.E. (2023, August). Walking and falling: Using robot simulations to model the role of errors in infant walking. *Lancaster International Conference on Infant and Early Child Development*. Lancaster, UK
- Ossmy, O.** Han, D., Cheng, M., Bianco, C., Kaplan, B., Adolph, K.E. (2023, August). “where” and “how”: developmental processes in exploring solutions to problems with hidden demands. *Lancaster International Conference on Infant and Early Child Development*. Lancaster, UK
- Ossmy, O.** (2023, May). Studying embodied learning in children. *Mind in Motion workshop*. Atlanta, US
- Grandchamp Des Raux, H., **Ossmy, O.** (2023, March). Identifying the origins of adaptive behavior using altered gravity environments. *International Convention of Psychological Science*. Brussels.
- Grandchamp Des Raux, H., **Ossmy, O.** (2023, March). The role of variability and agency in learning to plan. *International Convention of Psychological Science*. Brussels.

- Mcauley, J., Hayward, J., **Ossmy, O.** (2023, January). Better together: Classroom-based social intervention for spatial skills, *Budapest CEU Conference on Cognitive Development*, Budapest, Hungary
- Grandchamp Des Raux, H., **Ossmy, O.** (2023, January). The effects of rewards on rapid trial-and-error learning in school-age children, *Budapest CEU Conference on Cognitive Development*, Budapest, Hungary
- Cerbecos, M.P., **Ossmy, O.**, Mareschal, D. (2023, January). The emergence of collaborative play: Insights from kinematics, *Budapest CEU Conference on Cognitive Development*, Budapest, Hungary
- Ossmy, O.** (2022, December). From macro to micro in the development of problem solving. *University of Surrey*
- Ossmy, O.** (2022, November). A real-time approach to the development of problem solving. *International Society for Developmental Psychobiology (ISDP)*. San Diego, US [Virtual]
- Hayward, J., **Ossmy, O.** (2022, September). Better together: Classroom-based social intervention for spatial skills, *British Psychology Society conference - Developmental Section*
- Grandchamp Des Raux, H., **Ossmy, O.** (2022, September). The effects of rewards on rapid trial-and-error learning in school-age children, *British Psychology Society conference - Developmental Section*
- Ossmy, O.** Han, D., Cheng, M., Bianco, C., Kaplan, B., Adolph, K.E. (2022, September). First “where” and then “how”: developmental processes in exploring solutions to problems with hidden demands, *British Psychology Society conference - Developmental Section*
- Ossmy, O.** (2022, September). Toy intelligence: Automated monitoring of natural object play, *British Psychology Society conference - Developmental Section*
- Ossmy, O.** (2022, September). From macro to micro: The benefits of simultaneous real-time measurements of problem solving in preschoolers, *British Psychology Society conference - Developmental Section*
- Ossmy, O.** (2022, April). From macro to micro: Real-time measurements of development. Center for Cognition, Action & Perception, *University of Cincinnati*
- Ossmy, O.** (2021, June). The developmental process in discovering and implementing solutions to problems with hidden demands. *Jean Piaget Society Annual Conference* [Virtual]
- Ossmy, O.** (2021, June). The role of task modality in understanding inhibitory control demands in preschoolers. *Jean Piaget Society Annual Conference* [Virtual]
- Ossmy, O.** (2021, January). Defining functional networks in the brain using density-peak clustering. *International Conference on Neuro Imaging and Cognitive Neuroscience*, London, UK [Virtual]
- Ossmy, O.** (2020, November). Real-time processes in the development of problem solving, *Centre for Brain and Cognitive Development, Birkbeck College*, London, UK [Virtual]
- Ossmy, O.** (2020, November). Real-time processes in the development of problem solving, *Cognitive Research at McGill, McGill University*, Montreal, Québec, Canada [Virtual]
- Ossmy, O.** (2020, October). A real-time approach to the development of problem solving. *Perception, Action, Cognition: Development and Plasticity, Interactive Neuroscience and Cognition Center*, Université de Paris, Paris, France [Virtual]
- Ossmy, O.** (2020, October). Looking without seeing: Children do not distinguish efficient from inefficient means to achieve a goal. *International Society for Developmental Psychobiology* [Virtual]
- Ossmy, O.** (2020, October). A real-time approach to the development of problem solving. *Tenenbaum lab, Massachusetts Institute of Technology*, Cambridge, MA, USA [Virtual]
- Ossmy, O.** (2020, July). A behavioral approach to the development of common sense. Origins of Common Sense Workshop. *Cognitive Science Society*, Toronto, Canada [Virtual]
- Ossmy, O.**, Adolph, K.E. (2020, July). The effect of experience on locomotor problem solving: A real-time approach using machine learning. *The International Congress of Infant Studies*, Glasgow, Scotland [Virtual]
- Ossmy, O.**, Hoch, J., Han, D., MacAlpine, P., Stone, P., Adolph, K.E. (2020, July). Walking and falling: Using simulated robots to model variability and error in the development of infant walking. *The International Congress of Infant Studies*, Glasgow, Scotland [Virtual]
- Ossmy, O.**, Cheng, M., Bianco, C., Kaplan, B., Adolph, K.E. (2020, July). Developmental process in discovering and implementing solutions to problems with hidden demands. *The International Congress of Infant Studies*, Glasgow, Scotland [Virtual]
- Suarez-Rivera, C., **Ossmy, O.**, Tamis-Lemonda, C. (2020, July). The temporal structure of spontaneous language to infants at home: Regularities in semantic and functional word connections. *The International Congress of Infant Studies*, Glasgow, Scotland [Virtual]

- Tamis-Lemonda, C., West, K., Suarez-Rivera, C., **Ossmy, O.** (2020, July). Fine-grained environmental data illuminate the process of language learning. *The International Congress of Infant Studies*, Glasgow, Scotland [Virtual]
- Ossmy, O.** (2019, December). The development of problem solving: Real-time, integrative approach. Psychology and Neuroscience colloquium, *Tel Aviv University*, Tel Aviv, Israel
- Ossmy, O.** (2019, November). The development of problem solving: Real-time, integrative approach. Developmental Psychology colloquium, *CUNY*, New York, NY, USA
- Ossmy, O.**, Kaplan, B., Han, D., Xu, M., Bianco, C., Adolph, K.E (2019, October). What eye tracking and EEG tell us about the perception of multistep actions in children and adults. *Cognitive Development Society*, Louisville, KY, USA
- Ossmy, O.**, Kaplan, B. E., Xu, M., & Adolph, K. E. (2019, August). An integrative approach to the development of problem solving. *Flux Society*, New York, NY, USA
- Ossmy, O.** (2019, May). An integrative approach to the development of problem solving. Cognitive and Comparative Psychology colloquium, *CUNY*, New York, NY, USA
- Ossmy, O.**, Gilmore, R.O., Adolph, K.E. (2019, April). AutoViDev: A computer-vision framework to enhance and accelerate research in human development. *Computer Vision Conference*, Las Vegas, NV, USA
- 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, USA
- 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, USA
- 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, USA
- Ossmy, O.**, Adolph, K.E. (2019, March). A machine-learning approach to the development of problem solving in infant locomotion. *Society for Research in Child Development*, Baltimore, MD, USA
- Karasik, L.B., Fernandes, S., **Ossmy, O.**, Tamis-LeMonda, C.S., Adolph, K.E (2019, March). Effects of restrictive childrearing practices in Tajikistan on motor development. *Society for Research in Child Development*, Baltimore, MD, USA
- DeCamp, C., **Ossmy, O.**, Herzeberg-Keller, O., Fletcher, K., Schatz, J., McCallum, J., Tamis-LeMonda, C.S., Adolph K.E. (2019, March). Gendered color preferences in infants' everyday interactions with objects. *Society for Research in Child Development*, Baltimore, MD, USA
- Shuster, A., Inzelberg, L., **Ossmy, O.**, Izakson, L., Hanein, Y., Levy, D. (2018, October). Lie to my face: EMG study of facial expressions associated with deception. *Society for Neuroeconomics*, Philadelphia, PA, USA
- Ossmy, O.**, Hoch, J., MacAlpine, P., Hasan, S., Stone, P., & Adolph, K. E. (2018, July). Variety wins: Soccer-playing robots and infant walking. *The International Congress of Infant Studies*, Philadelphia, PA, USA
- Ossmy, O.**, Hoch, J., Hasan, S., Cole, W. G., & Adolph, K. E. (2018, July). Dancing together: The nature of infant-mother locomotor synchrony. *The International Congress of Infant Studies*, Philadelphia, PA, USA
- Hoch, J.*, **Ossmy, O.***, & Adolph, K. E. (2018, July). Foraging in the playroom: Towards a model of human infant locomotor play. *The International Congress of Infant Studies*, Philadelphia, PA, USA
- Hoch, J., **Ossmy, O.**, Han, D., Heiman, C., Lee, D.K., Cole, W.G., & Adolph, K. E. (2018, July). Learning to walk: Immense and varied input. *The International Congress of Infant Studies*, Philadelphia, PA, USA
- Adolph, K.E., **Ossmy, O.**, Hoch, J., & Cole, W.G. (2018, July). (Re)using video to document procedures, illustrate findings, grow sample sizes, and ask new questions. *The International Congress of Infant Studies*, Philadelphia, PA, USA
- Ossmy, O.**, Hoch, J., Hasan, S., Cole, W. G., & Adolph, K. E. (2018, May). Dancing together: The nature of infant-mother locomotor synchrony. *Social & Affective Neuroscience Society*, New-York, NY, USA.
- Ossmy, O.**, Kaplan, B. E., Xu, M., & Adolph, K. E. (2018, March). Development in flexibility in tool use. *Cognitive Neuroscience Society*, Boston, MA, USA
- Izakson, L., Shuster, A., **Ossmy, O.**, Inzelberg, L., Sela, T., Hanein, Y., & Levy, D. (2017, December). Lie to my face: detecting lies through facial expressions. *Israel Society for Neuroscience*, Eilat, Israel.
- Hoch, J., **Ossmy, O.**, Adolph, K.E. (2017, November). *Mathematical Biosciences Institute (MBI) Workshop: Sensorimotor control of animals and robots*, Columbus, OH, USA

- Ossmy, O.**, Kaplan, B. E., Xu, M., & Adolph, K. E. (2017, November). Neural patterns underlying the development of planning in tool use. *Society for Neuroscience*, Washington, DC, USA
- Hoch, J.*, **Ossmy, O.***, & Adolph, K. E. (2017, November). Foraging in the playroom: Random walk behavior in human infants. *International Society for Developmental Psychobiology*, Washington, DC, USA
- Hoch, J.*, **Ossmy, O.***, MacAlpine, P., Hasan, S., Stone, P., & Adolph, K. E. (2017, November). Variety matters: What can we learn about infant walking from soccer-playing robots. *International Society for Developmental Psychobiology*, Washington, DC, USA
- Ossmy, O.**, Kaplan, B. E., Xu, M., & Adolph, K. E. (2017, November). Neural patterns underlying the development of planning in tool use. *International Society for Developmental Psychobiology*, Washington, DC, USA
- Ossmy, O.**, Hoch, J., Hasan, S., Cole, W. G., & Adolph, K. E. (2017, November). Dancing together: The nature of infant-mother locomotor synchrony. *International Society for Developmental Psychobiology*, Washington, DC, USA
- Ossmy, O.**, Kaplan, B. E., Xu, M., & Adolph, K. E. (2017, November). 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, USA
- Hoch, J.*, **Ossmy, O.***, & Adolph, K. E. (2017, November). Foraging in the playroom: Random walk behavior in human infants. *Cognitive Development Society*, Portland, OR, USA
- Hoch, J.*, **Ossmy, O.***, MacAlpine, P., Hasan, S., Stone, P., & Adolph, K. E. (2017, November). Variety matters: What can we learn about infant walking from soccer-playing robots. *Cognitive Development Society*, Portland, OR, USA
- Ossmy, O.**, Mukamel, R. (2016, June). SMA sensitivity to visual feedback corresponds with subsequent motor learning. *Organization Human Brain Mapping*, Geneva, Switzerland
- Ossmy, O.**, Simon, S. & Mukamel, R. (2016, June). Defining functional networks in the brain using density peaks and clustering. *Pattern Recognition in Neuroimaging*. Trento, Italy
- Ossmy, O.** & Mukamel, R. (2015, December). My left hand actually does know what my right hand is doing: The neural networks underlying intermanual skill transfer in humans. *Israel Society for Neuroscience*, Eilat, Israel
- Ossmy, O.** & Mukamel, R. (2015, December). Activity in superior parietal lobule during training by observation predicts subsequent performance gains. *Israel Society for Neuroscience*, Eilat, Israel
- Ossmy, O.** & Mukamel, R. (2015, October). Neural substrates of enhanced intermanual skill transfer during online manipulation of visual feedback. *Society for Neuroscience*, Chicago, IL, USA
- Ossmy, O.** & Mukamel, R. (2015, October). Activity in superior parietal lobule during training by observation predicts subsequent performance gains. *Society for Neuroscience*, Chicago, IL, USA
- Ossmy, O.** & Mukamel, R. (2015, June). Neural substrates of enhanced intermanual skill transfer during online manipulation of visual feedback. *Computational Motor Control Workshop and Agricultural, Biological and Cognitive Robotics Initiative*, Beer-Sheva, Israel
- Ossmy, O.**, Lakertz, Y. & Mukamel, R. (2015, June). Motor Neuro-Kinemes: neural representation schemes of primitive motor movements. *Computational Motor Control Workshop and Agricultural, Biological and Cognitive Robotics Initiative*, Beer-Sheva, Israel
- Ossmy, O.** & Mukamel, R. (2015, April). Neural substrates of enhanced intermanual skill transfer during online manipulation of visual feedback. *Federation of European Neuroscience Societies Forum*, Copenhagen, Denmark
- Ossmy, O.** & Mukamel, R. (2014, December). Virtual Reality for motor learning: Decouple movements from visual perception to create novel transfer effect. *Israel Society for Neuroscience*, Eilat, Israel
- Ossmy, O.**, Fried, I. & Mukamel, R. (2014, December). Decoding Speech Perception from Single Cell Activity in Humans. *Israel Society for Neuroscience*, Eilat, Israel
- Ossmy, O.** & Mukamel, R. (2014, December). Motor Neuro-Kinemes: Identifying the neural 'building-blocks' of human complex movements. *Israel Society for Neuroscience*, Eilat, Israel
- Ossmy, O.**, Fried, I. & Mukamel, R. (2014, December). Decoding Speech Perception from Single Cell Activity in Humans. *Israel Society for Auditory Research*, Eilat, Israel
- Ossmy, O.** & Mukamel, R. (2014, June). Motor Neuro-Kinemes: Identifying the neural 'building-blocks' of human complex movements *Computational Motor Control Workshop and Agricultural, Biological and Cognitive Robotics Initiative*, Beer-Sheva, Israel
- Ossmy, O.** & Puzis, R. (2013, April). *President Barak Obama: Israeli Innovators Conference*, Jerusalem, Israel
- Ossmy, O.**, Ben-Shachar, M. & Mukamel, R. (2013, December). Decoding letter position in word reading. *Israel Society for Neuroscience*, Eilat, Israel

- Ossmy, O.**, Ben-Shachar, M. & Mukamel, R. (2013, November). Decoding letter position in word reading. *Society for Neuroscience*, San Diego, CA, USA
- Ossmy, O.**, Ben-Shachar, M. & Mukamel, R. (2013, November). Decoding letter position in word reading. *Society for the Neurobiology of Language*, San Diego, CA, USA
- Ossmy, O.** & Usher, M. (2012, December). Time scale adaptation for evidence integration in human vision. *Israel Society for Neuroscience*, Eilat, Israel
- Ossmy, O.**, Tam, O., Puzis, R., Rokach, L., Inbar, O., & Elovici, Y. (2011, June). MindDesktop - computer accessibility for severely handicapped. *International Conference on Enterprise Information Systems*, Beijing, China

RESEARCH FEATURES IN PUBLIC MEDIA

- 2023 Brain Hacks, *BBC News*
- 2023 Why we're still smarter than machines, *BBC REEL*
- 2022 Babies, Robots, and in Between, *Bluedot Festival*,
- 2022 Clear the dance floor: Baby steps happening here. *Early Learning Nation*
- 2021 Israeli tech detects liars with electrode stickers. *News in 24*
- 2019 Robots can learn walking from motor actions of infants? *SAIConference*
- 2018 The way toddlers waddle can teach robot footballers how to play. *New Scientist*
- 2018 Your left hand knows what your right hand is doing. *Science Daily*
- 2017 General-purpose brain-computer interface brings thought control to any PC. *MIT Technology Review*
- 2017 Controlling computers with our mind is getting easier... slowly. *VICE*
- 2017 3D virtual reality therapy could help repair damaged limbs. *NoCamels*
- 2016 Scientists harness virtual reality to teach damaged limbs new tricks. *Haaretz*
- 2016 New study reveals your left hand DOES know what your right is doing. *Sunday Express*
- 2016 New virtual reality technology may improve motor skills in damaged limbs. *Science Daily*
- 2016 New Israeli virtual reality tech could rehabilitate damaged limbs, stroke patients. *The Jerusalem Post*
- 2016 VR could improve mobility of physically impaired. *Innovators Magazine*
- 2016 Scientists harness virtual reality to help stroke rehabilitation. *Ynet* (Hebrew)
- 2016 Science might help patients after stroke. *Israeli Braodcast* (Hebrew)
- 2011 BGU may help disabled use computers with thoughts. *The Jerusalem Post*
- 2011 Students develop thought-controlled, hands-free computer for the disabled. *Science Daily*
- 2011 Ben-Gurion University students develop thought-controlled, hands-free computer for the disabled. *Medical Daily*

UNDERGRADUATE/GRADUATE STUDENTS MENTORED

I am supervising and have supervised 3 post-doctoral researchers, 7 PhD students (as primary or secondary), 33 post-graduate students and 31 undergraduate students. Students under my supervision received 3 Poster Awards and 2 Thesis Awards.

VOLUNTEER EXPERIENCE

- 2016 Content developer. Developed content on psychology and neuroscience to high-school lecturers in ORT Israel school network. The content includes cognitive, motor and perceptual processes in the brain and the ethic limitations of neuroscience research
- 2016 "HelloWorld" Social enterprise. Development Advisor. Managed developers and designed devices to provide accessibility to individuals with physical disabilities
- 2015 In-home educator of assistive technology to improve functional capabilities of children with motor impairmentss

LANGUAGES

Hebrew – native; English – fluent; Spanish, Russian – proficient; French – reading/writing