

**Curriculum Vitae (June, 2022)**  
**ORI OSSMY**

**POSITIONS**

- 2021-present      Lecturer (Assistant Professor)  
Department 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

**SCHOLARSHIPS, AWARDS, & GRANTS**

- 2022      Distinguished Early Career Award, International Congress of Infants Studies (ICIS)
- 2022      New Investigator grant, UKRI Economic and Social Research Council (PI: Ori Ossmy)
- 2021      Wellcome Trust Institutional Strategic Support Fund (PI: Ori Ossmy)
- 2021      British Academy Talent Award (PI: Ori Ossmy)
- 2021      Elsevier/Vision Research Virtual Award, Vision Sciences Society (PI: Ori Ossmy)
- 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
- 2018-2019      Blavatnik Interdisciplinary Cyber Research Center grant (as advisor)
- 2017-2019      NSF/SBE-BSF 1627993 grant (PI: Dr. Karen Adolph. Fellow: Dr. Ori Ossmy)
- 2017-2018      Joy Ventures grant (PIs: Drs. Dino Levy, Tal Sela, Ori Ossmy)
- 2017      Trainee Professional Development Award, Society for Neuroscience
- 2017      Travel Award, International Society for Developmental Psychology
- 2013-2016      Honor Scholarship of Scientific Research, President of the State of Israel
- 2013-2016      Yosef Sagol Scholarship of Brain Research, Tel Aviv University
- 2011-2016      Interdisciplinary Doctoral Program in Neuroscience Scholarship
- 2016      Travel Award, Ministry of Science, Technology & Space, Israel
- 2016      Travel Award, Sagol School of Neuroscience, Tel Aviv University
- 2016      Alfa Excellency Program Scholarship to Mentor High-school Students
- 2015      Travel Award, Sagol School of Neuroscience, Tel Aviv University
- 2013-2015      Social Involvement Scholarship, ORT Israel School Network
- 2015      Travel Award, Adams Super Center for Brain Studies
- 2014      Sieratzki Prize for Students in Neuroscience
- 2014      Trotzky Scholarship for Research
- 2014      Best Student Presentation Award, ISAR
- 2010      Project Excellence Award in Engineering

**PEER-REVIEWED PUBLICATIONS (\* joint first authorship)**

1. **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.

2. 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
3. **Ossmy, O.**, Han, D., Kaplan, B., Xu, M., Bianco, C., Mukamel, R., Adolph, K.E. (2021). Children do not distinguish efficient from inefficient actions during observation. *Scientific Reports*, 11(1), 1-13.
4. 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
5. Hoch, J.\*, **Ossmy, O.\***, Hasan, S., Cole, W., Adolph, K.E. (2021). “Dancing” together: Infant-mother locomotor synchrony. *Child Development*, 92(4), 1337-1353
6. **Ossmy, O.**, Adolph, K.E. (2020). Real-time assembly of coordination patterns in human infants. *Current Biology*, 30, 1-10
7. 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.
8. **Ossmy, O.**, Mansano, L., Frenkel-Toledo, S., Kagan, E., Koren, S., Gilron, R., Reznik, D., Soroker, N., Mukamel, R. (2020). Motor learning in Hemi-Parkinson using VR-manipulated sensory feedback. *Disability and Rehabilitation: Assistive Technology*, 1-13
9. **Ossmy, O.**, Han, D., Cheng, M., Kaplan, B., Adolph, K.E. (2020). Look before you fit: Real-time planning cascade in children and adults. *Journal of Experimental Child Psychology* 189, 104696
10. **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
11. **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.
12. 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
13. Karasik, L., Tamis-LeMonda, C.S., **Ossmy, O.**, Adolph, K.E. (2018). The ties that bind: Cradling in Tajikistan. *Plos One* 13:e0204428
14. **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
15. **Ossmy, O.**, Mukamel, R. (2018). Perception as a route for transfer of motor knowledge: Perspectives from human neuroscience. *Neuroscience*, 382:144-153
16. 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
17. **Ossmy, O.**, Mukamel, R. (2017). Behavioral and neural effects of congruency of visual feedback during short-term motor learning. *NeuroImage*, 172:864-873
18. **Ossmy, O.**, Mukamel, R. (2017). Using virtual reality to transfer motor skill knowledge from one hand to another. *Journal of Visualized Experiments: JoVE*, (127)
19. **Ossmy, O.**, Mukamel, R. (2017). Short term motor-skill acquisition improves with size of self-controlled virtual hands. *PloS One*, 12(1), e0168520
20. **Ossmy, O.**, Mukamel, R. (2016). Neural network underlying intermanual skill transfer in humans. *Cell Reports*, 17:2891-2900
21. **Ossmy, O.**, Mukamel, R. (2016). Activity in superior parietal cortex during training by observation predicts asymmetric learning levels across hands. *Scientific Reports*, 6:32133
22. **Ossmy, O.**, Fried, I., Mukamel, R. (2015). Decoding speech perception from single cell activity in humans. *NeuroImage*, 117:151-159

23. 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
24. **Ossmy, O.**, Ben-Shachar, M., Mukamel, R. (2014). Decoding letter position in word reading. *Cortex*, 59:74-83
25. **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
26. **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:**

1. **Ossmy, O.**, & Mukamel, R. (in revision). Parcellating the brain function using unsupervised clustering. *eNeuro* [<https://doi.org/10.31234/osf.io/hkrzw>]
2. **Ossmy, O.\***, Han, D.\* , Cheng, M., Bianco, C., Kaplan, B., & Adolph, K.E. (under review). First “where” and then “how”: Developmental processes in exploring solutions to problems with hidden demands. *Child Development*

### **MANUSCRIPTS IN PREPARATION (\* joint first authorship):**

1. **Ossmy, O.** (in prep). Extended reality in psychology: A modernized paradigm of human behavior
2. **Ossmy, O.**, Adolph, K.E. (in prep). Let the data work for you: How machine learning can advance research in human development
3. **Ossmy, O.\***, Hoch, J. \* , Han D., MacAlpine, P., Stone, P., Adolph, K.E. (in prep). Walking and falling: Using simulated robots to model variability and error in the development of infant walking
4. **Ossmy, O.**, Kaplan, B., Han, D., Adolph, K.E. (in prep). Collecting and analyzing EEG data in individual children: Methodological challenges, special considerations, and best practices

### **PATENTS**

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

### **SHARED DATASETS**

1. **Ossmy, O.** & Adolph, K. (2020). Real-time Assembly of Coordination Patterns in Infants. *Databrary*. <http://doi.org/10.17910/b7.1116>
2. **Ossmy, O.** & Adolph, K. (2019). Look before you fit: The real-time planning cascade in children and adults. *Databrary*. <http://doi.org/10.17910/b7.1011>
3. Hoch, J.\* , **Ossmy, O.\*** & Adolph, K. (2019). "Dancing" together: Infant-mother locomotor synchrony. *Databrary*. <http://doi.org/10.17910/b7.943>
4. **Ossmy, O.** & Adolph, K. (2017). Looking without seeing: Children do not distinguish efficient from inefficient means to achieve a goal. *Databrary*. <http://doi.org/10.17910/b7.321>
5. **Ossmy, O.** & Adolph, K. (2017). Planning to plan: Real-time factors in the development of adaptive problem solving. *Databrary*. <https://nyu.databrary.org/volume/434>

### **PROFESSIONAL ACADEMIC SERVICE**

2022-present Review Editor, *Frontiers in Cognition*

2020-present Topic Editor, *Brain Sciences*

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*

2019-present Workshop organizer: *Datavyu*, *AutoViDev*

2017-present Workshop mentor: *Datavyu*, *Databrary*

- 2013-present Small workshop organizer/mentor: MATLAB, R, Python, machine learning principles
- 2016 Workshop organizer: *What do we do after getting PhD?*

## **PROFESSIONAL EXPERIENCE**

- 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.** (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**

- 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 have supervised 15 post-graduate students and 19 undergraduate students. Students under my supervision have been awarded URC Best Poster awards and best 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 impairments

### **LANGUAGES**

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