

Curriculum Vitae (March, 2018)**ORI OSSMY****ADDRESS**

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EDUCATION

2013 – 2016 Ph.D., Neuroscience, Tel-Aviv University, Tel-Aviv, Israel
 Supervisors: Prof. Roy Mukamel
 2011 – 2012 M.Sc., Neuroscience, Tel-Aviv University, Tel-Aviv, Israel
 2006 – 2010 B.Sc., Software Engineering, Ben-Gurion University, Beer-Shever, Israel.
 Graduated Magna Cum-Laude

SCHOLARSHIPS AND AWARDS

2017-2019 NSF/SBE-BSF 1627993 grant (PI: Prof. Karen Adolph)
 2017-2018 Joy Ventures grant award (PIs: Dr. Ori Ossmy, Dr. Dino Levy, Dr. Tal Sela)
 2017 Trainee Professional Development Award (TPDA), Society for Neuroscience (SFN)
 2017 Travel Award, International Society for Developmental Psychology (ISDP)
 2013-2016 President of the state of Israel honor Scholarship of Scientific Research
 2013-2016 Yosef Sagol Scholarship of Brain Research, Tel-Aviv University
 2011-2016 Interdisciplinary Doctoral Program in Neuroscience (IDPN) Scholarship
 2016 Travel Award, Ministry of Science, Technology & Space
 2016 Travel Award, Sagol School of Neuroscience, Tel-Aviv University
 2016 Alfa Excellency Program Scholarship for mentoring 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

RESEARCH INTERESTS

Neural patterns underlying perception, action & cognition; Perceptual-motor development; Motor skill acquisition from infants to older adults; Learning & transfer; Neuro-development of manual actions and tool use; Development of balance & locomotion; Using machine learning in neuroscience and developmental psychology; Computerized systems for data exploration, & data visualization; Virtual reality in behavioral sciences; Computational modeling of cognitive processes; Motor performance in hemiparetic patients.

PUBLICATIONS

1. **Ossmy, O.**, & Mukamel, R. (2017). Behavioral and neural effects of congruency of visual feedback during short-term motor learning. *NeuroImage*.
2. **Ossmy, O.**, & Mukamel, R. (2017). Using virtual reality to transfer motor skill knowledge from one hand to another. *Journal of Visualized Experiments: JoVE*, (127).
3. **Ossmy, O.**, & Mukamel, R. (2017). Short term motor-skill acquisition improves with size of self-controlled virtual hands. *PloS One*, 12(1), e0168520.
4. **Ossmy, O.**, & Mukamel, R. (2016). Neural network underlying intermanual skill transfer in humans. *Cell Reports*, 17(11), 2891-2900.
5. **Ossmy, O.**, & Mukamel, R. (2016). Activity in superior parietal cortex during training by observation predicts asymmetric learning levels across hands. *Scientific Reports*, 6, 32133.
6. **Ossmy, O.**, Fried, I., Mukamel, R. (2015). Decoding speech perception from single cell activity in humans. *NeuroImage*, 117, 151-159.
7. 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(5), 2173-2180.
8. **Ossmy, O.**, Ben-Shachar, M., Mukamel, R. (2014). Decoding letter position in word reading. *Cortex*, 59, 74-83.
9. **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(11), 981-986. * Equal contribution.
10. **Ossmy, O.**, Tam, O., Puzis, R., Rokach, L., Inbar, O., & Elovici, Y. (2011). MindDesktop - computer accessibility for severely handicapped. *ICEIS* (4), 316-320.

MANUSCRIPTS UNDER REVIEW

1. **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* (under review) * Equal contribution.
2. **Ossmy, O.**, Mukamel, R. (2018). Perception as a route for transfer of motor knowledge: Perspectives from human neuroscience. *Neuroscience* (under review).
3. Aridan N.*, **Ossmy, O.***, Mukamel, R. (2018). EEG mu wave suppression during action observation corresponds with subsequent individual changes in execution. *Brain Research* (under review) * Equal contribution.
4. **Ossmy, O.**, Mansano, L., Frenkel-Toledo, S., Kagan, E., Koren, S., Gilron, R., Reznik, D., Soroker, N., Mukamel, R. (2018) Novel rehabilitation strategy for affected upper limb in hemi-Parkinson using cross education and mirrored sensory feedback: A case study. *Experimental Brain Research* (under review).
5. **Ossmy, O.***, Hoch, J.*, Hasan, S., Cole, W., Adolph, K.E. (2018). Dancing together: The nature of infant-mother locomotor synchrony. *Nature Human Behavior*. (under review) * Equal contribution.
6. Karasik, L., Tamis-LeMonda, C.S., **Ossmy, O.**, Adolph, K.E. (2018). Traditional cradling in Central Asia constrains infants' movements and limits visual input. *Child Development* (under review).

PATENTS

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

CONFERENCE PRESENTATIONS

- Ossmy, O.**, Kaplan, B. E., Xu, M., Han, D. & Adolph, K. E. (2018, June). Planning ahead: preparatory EEG activity predicts voluntary actions when the goal is not immediately accessible to perception. Visual Sciences Society, St. Pete Beach, FL, 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.** & Mukamel, R. (2015, June). Activity in superior parietal lobule during training by observation predicts subsequent performance gains. 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

PROFESSIONAL EXPERIENCE

- 2008 - 2015 Microsoft, Israel R&D Center
Software Development Engineer (SDE).
Coding for Microsoft products, software designs, and User-Interface development in various fields as 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
- 2002 – 2005 Army Service in IDF (Israel Defence Forces)
Security investigator and the head of IAF investigation center (10 months).
Awards:
Department of Defense Information Excellence Award 2003.
Israeli Presidential Excellence Award 2004.
IAF's Excellence Award 2005

VOLUNTEER EXPERIENCE

- (2016) "HelloWorld" Social enterprise. Development Advisor. Managed developers and designed devices to provide accessibility to individuals with physical disabilities (2017)
- (2015) In-home educator of assistive technology to improve functional capabilities of children with motor impairments.

LANGUAGES

- Hebrew – Native.
English – Fluent.
French, Spanish, Russian, Italian – Proficient.