

# Alessandro Moscatelli

---

## PERSONAL INFORMATION

*Date of Birth:* 23/10/1981  
*Nationality:* Italian  
*Address (Work):* Via Montpellier, 1 00133 Rome (Italy)  
*E-mail 1:* alessandro.moscatelli@uniroma2.it  
*E-mail 2:* a.moscatelli@hsantalucia.it  
*Web:* <https://moskante.github.io/biosketch/>  
ORCID: 0000-0001-6269-4536  
ResearcherID: L-1391-2018

## RESEARCH INTERESTS

Haptics, Human Perception, Motor Control in Hand Grasping and Reaching, Statistical Modelling

## EDUCATION AND TRAINING

### **Università degli Studi di Roma “Tor Vergata”**

Ph.D. Neuroscience, November 2011

Dissertation: “Behavioral Studies on the Perception of Time”

Advisor: Prof. Francesco Lacquaniti

Postgraduate Master in Biostatistics, September 2009

Dissertation: “Mixed Models in Psychophysics: Estimates from Bootstrap and Delta Methods”

Advisor: Prof. Maura Mezzetti

Grade: 110/110 cum laude

Medical Doctor degree, July 2006

Dissertation: “Neural Basis of the Perception of Gravity Acceleration: An fMRI Study ”

Advisors: Prof. Francesco Lacquaniti

Co-advisor: Dr. William L. Miller

Grade: 110/110 cum laude

## ACADEMIC EXPERIENCE

### **November 2022 - Present**

*Associate Professor*, Department of Systems Medicine, Università degli Studi di Roma “Tor Vergata”, Rome, Italy.

### **November 2019 - November 2022**

*Tenure Track researcher (RTD-B)*, Department of Systems Medicine, Università degli Studi di Roma “Tor Vergata”, Rome, Italy.

### **October 2017 - November 2019**

*Fixed-term researcher (RTD-A)*, Department of Systems Medicine, Università degli Studi di Roma “Tor Vergata”, Rome, Italy.

### **June 2018 - Present**

*Board Member* of the EuroHaptics Society

### **October 2015 - September 2017**

*Post Doc (Assegnista di Ricerca)*, Department of Systems Medicine and Centre of Space Biomedicine, Università degli Studi di Roma “Tor Vergata”, Rome, Italy.

Supervisor: Prof. Francesco Lacquaniti

### **October 2011 - September 2015**

*Post Doc (Wissenschaftlicher Beschäftigter)*, Department of Cognitive Neuroscience and Cognitive Interaction Technology–Centre of Excellence, Bielefeld University, Bielefeld, Germany.

Supervisor: Prof. Marc O. Ernst

**January 2011 - December 2011**

*Post Doc (Assegnista di Ricerca)*, Department of Neuroscience and Centre of Space Biomedicine, Università degli Studi di Roma “Tor Vergata”, Rome, Italy.

Supervisor: Prof. Francesco Lacquaniti

**January 2007 - December 2007**

*Fellowship, Laboratory of Neuromotor Physiology,*

IRCSS Fondazione Santa Lucia, Rome, Italy.

Supervisor: Prof. Francesco Lacquaniti

HONORS AND  
AWARDS

2022 Contributi premiali per i ricercatori Regione Lazio

2018 Italian Habilitation as Professor of General Psychology

2017 Italian Habilitation as Professor of Physiology

Best Paper Awards (Poster Presentation), Eurohaptics, 2014

Award “Sebastiano e Rita Raeli” for outstanding proficiency in studies, M.D., 2007

Scholarship (M.D.), 2000-2006

MEMBERSHIP OF  
SCIENTIFIC  
SOCIETIES

*EuroHaptics Society*

**2014–Today**

From 2018 *Member of the Executive Committee*

*Istituto di Robotica e Macchine Intelligenti (I-RIM)*

**2019–Today**

*Association for Computing Machinery (ACM)*

**2020–Today**

*The American Physiological Society (APS)*

**2015**

RESEARCH GRANTS **October 2022 - September 2026**

Team Leader (Haptic Team - Santa Lucia Foundation Unit) in Horizon RIA grant: “HARIA HUMAN-ROBOT SENSORIMOTOR AUGMENTATION WEARABLE SENSORIMOTOR INTER-FACES” (Proposal number: 101070292).

**March 2022 - February 2023**

Co-Investigator in project “LATIN: Locomotion in Ataxia and modulation by Tactile vibratIoN”. University of Rome Tor Vergata (Rome, Italy)”.

**January 2021 - June 2022**

Principal Investigator in project “MOPED: Multisensory mOtion PEreception” and pathological changes in Diabetes. University of Rome Tor Vergata (Rome, Italy), research program “Beyond Borders”.

**February, 2020 - July 2023**

Unit coordinator in PRIN project “TIGHT: Tactile InteGration for Humans and arTificial systems”. Ministero dell’Istruzione, dell’Universit e della Ricerca (Rome, Italy). GRANT NUMBER: 2017SB48FP

**October, 2017 - 2019**

Research Agreement with *Facebook Reality Lab (Facebook, Inc.)*. The research project has a duration of 2+1 years. In collaboration with Centro Piaggio, University of Pisa. Role of Principal Investigator for the unit IRCCS Santa Lucia Foundation.

**March, 2013 - November, 2017**

Co-investigator in European project “WEARHAP WEARable HAPTics for humans and robots”. The project has received funding from the European Union Seventh Framework Programme FP7/2007-2013 under grant agreement 601165. Information and Communication Technologies, Collaborative Large-scale integrating project (IP), FP7-ICT-2011-9-2.1: Cognitive Systems and Robotics. Coordinator: Prof. Domenico Prattichizzo

**October, 2011 - June, 2014**

Co-investigator in European Project “THE - The Hand Embodied”. A project supported by the European Commission under the 7th Framework Programme Large-scale integrating project Information and Communication Technologies ICT Supported by the ICT Programme Cognitive Systems and Robotics. Coordinator: Prof. Antonio Bicchi

CONSULTING  
ACTIVITIES

**October, 2011 - July, 2012**

Scientific Advisor at the European Central Bank (ECB), in collaboration with Prof. Marc O. Ernst and Dr. Myrthe Plaisier. Contact: Susanne Paleczek, E-mail: susanne.paleczek@oeps.co.at.

SCIENTIFIC  
COLLABORATIONS

*Dipartimento di Fisiologia Neuromotoria*, IRCSS Fondazione Santa Lucia, Roma (Prof. F. Lacquaniti)

*Centro E. Piaggio*, Università degli Studi di Pisa, Pisa, Italia (Prof. A. Bicchi and Prof. M. Bianchi)

*Dipartimento di Ingegneria dell’Informazione e Scienze Matematiche*, Università di Siena, Siena, Italia (Prof. D. Prattichizzo)

Department of Applied Cognitive Psychology, Ulm University, Ulm, Germany (Prof. MO Ernst)

*Institut des Systèmes Intelligents et de Robotique*, Sorbonne Universités, Parigi, Francia (Prof. V. Hayward)

PEER REVIEWED  
PUBLICATIONS

Mezzetti M, Ryan CP, Balestrucci P, Lacquaniti F, Moscatelli A. Bayesian hierarchical models and prior elicitation for fitting psychometric functions. *Front Comput Neurosci*. 2023 Mar 2;17:1108311. doi: 10.3389/fncom.2023.1108311. PMID: 36936193; PMCID: PMC10018033.

Ryan CP, Ciotti S, Cosentino L, Ernst MO, Lacquaniti F, Moscatelli A. Masking Vibrations and Contact Force Affect the Discrimination of Slip Motion Speed In Touch. *IEEE Trans Haptics*. 2022 Sep 23;PP. doi: 10.1109/TOH.2022.3209072. Epub ahead of print. PMID: 36149999.

Picconi F, Ryan CP, Russo B, Ciotti S, Pepe A, Menduni M, Lacquaniti F, Frontoni S, Moscatelli A. The evaluation of tactile dysfunction in the hand in type 1 diabetes: a novel method based on haptics. *Acta Diabetol*. 2022 Aug;59(8):1073-1082. doi: 10.1007/s00592-022-01903-1. Epub 2022 May 31. PMID: 35641837; PMCID: PMC9242965.

Ciotti S., Bianchi M., Doria D., Lacquaniti F., Moscatelli A. (2022) HaptiTrack: A Novel Device for the Evaluation of Tactile Sensitivity in Active and in Passive Tasks. In: Torricelli D., Akay M., Pons J.L. (eds) *Converging Clinical and Engineering Research on Neurorehabilitation IV*. ICNR 2020. Biosystems and Biorobotics, vol 28. Springer, Cham.

Ryan CP, Bettelani GC, Ciotti S, Parise C, Moscatelli A, Bianchi M. The interaction between motion and texture in the sense of touch. *J Neurophysiol*. 2021 Oct 1;126(4):1375-1390. doi: 10.1152/jn.00583.2020. Epub 2021 Sep 8. PMID: 34495782.

G. C. Bettelani, S. Fani, A. Moscatelli, P. Salaris and M. Bianchi, “Controlling Hand Movements Relying on Tactile Illusions: A Model Predictive Control Framework,” 2021 IEEE World Haptics Conference (WHC), 2021, pp. 985-990, doi: 10.1109/WHC49131.2021.9517188.

S. Ciotti, C. P. Ryan, M. Bianchi, F. Lacquaniti and A. Moscatelli, “A Novel Device Decoupling

Tactile Slip and Hand Motion in Reaching Tasks: The HaptiTrack Device,” in *IEEE Transactions on Haptics*, vol. 14, no. 2, pp. 248-253, 1 April-June 2021, doi: 10.1109/TOH.2021.3075024.

Moscatelli A, Nimbi FM, Ciotti S, Jannini EA. Haptic and Somesthetic Communication in Sexual Medicine. *Sex Med Rev.* 2021 Apr;9(2):267-279. doi: 10.1016/j.sxmr.2020.02.003. Epub 2020 Jul 18. PMID: 32690471.

Scotto CR, Moscatelli A, Pfeiffer T, Ernst MO. Visual pursuit biases tactile velocity perception. *J Neurophysiol.* 2021 Aug 1;126(2):540-549. doi: 10.1152/jn.00541.2020. Epub 2021 Jul 14. PMID: 34259048.

Naceri A, Gultekin YB, Moscatelli A, Ernst MO. Role of Tactile Noise in the Control of Digit Normal Force. *Front Psychol.* 2021 Feb 12;12:612558. doi: 10.3389/fpsyg.2021.612558. PMID: 33643139; PMCID: PMC7907510.

Balestrucci P, Maffei V, Lacquaniti F, Moscatelli A. The Effects of Visual Parabolic Motion on the Subjective Vertical and on Interception. *Neuroscience.* 2021 Jan 15;453:124-137. doi: 10.1016/j.neuroscience.2020.10.011. Epub 2020 Oct 1. PMID: 33010347.

Stampanoni Bassi M, Gilio L, Iezzi E, Moscatelli A, Pekmezovic T, Drulovic J, Furlan R, Finardi A, Mandolesi G, Musella A, Galifi G, Fantozzi R, Bellantonio P, Storto M, Centonze D, Buttari F. Age at Disease Onset Associates With Oxidative Stress, Neuroinflammation, and Impaired Synaptic Plasticity in Relapsing-Remitting Multiple Sclerosis. *Front Aging Neurosci.* 2021 Sep 10;13:694651. doi: 10.3389/fnagi.2021.694651. PMID: 34566620; PMCID: PMC8461180.

Mandolesi G, Rizzo FR, Balletta S, Stampanoni Bassi M, Gilio L, Guadalupi L, Nencini M, Moscatelli A, Ryan CP, Licursi V, Dolcetti E, Musella A, Gentile A, Fresegna D, Bullitta S, Caioli S, Vanni V, Sanna K, Bruno A, Buttari F, Castelli C, Presutti C, De Santa F, Finardi A, Furlan R, Centonze D, De Vito F. The microRNA let-7b-5p Is Negatively Associated with Inflammation and Disease Severity in Multiple Sclerosis. *Cells.* 2021 Feb 5;10(2):330. doi: 10.3390/cells10020330. PMID: 33562569; PMCID: PMC7915741.

Bettelani, G. C., **Moscatelli, A.**, Bianchi, M. (2020). On the Role of Lateral Force in Texture-Induced Motion Bias During Reaching Tasks. *IEEE Transactions on Haptics* (ePub ahead of print).

**Moscatelli, A.**, Scotto, C. R., Ernst, M. O. (2019). Illusory changes in the perceived speed of motion derived from proprioception and touch. *Journal of neurophysiology*, 122(4), 1555-1565.

Bettelani, G. C., **Moscatelli, A.**, Bianchi, M. (2019, July). Contact with Sliding over a Rotating Ridged Surface: the Turntable Illusion. In 2019 IEEE World Haptics Conference (WHC) (pp. 562-567). IEEE.

**Moscatelli, A.**, La Scaleia, B., Zago, M., Lacquaniti, F. (2019). Motion direction, luminance contrast, and speed perception: An unexpected meeting. *Journal of vision*, 19(6), 16-16.

**Moscatelli, A.**, Bianchi, M., Ciotti, S., Bettelani, G. C., Parise, C. V., Lacquaniti, F., Bicchi, A. (2019). Touch as an auxiliary proprioceptive cue for movement control. *Science advances*, 5(6), eaaw3121.

Bettelani, G.C., **Moscatelli A.**, Bianchi M. (2018). Towards a Technology-Based Assessment of Sensory-Motor Pathological States Through Tactile Illusion. 7th IEEE International Conference on Biomedical Robotics and Biomechatronics (Biorob), Enschede, Netherlands, 2018, pp. 225-229. doi: 10.1109/BIOROB.2018.8487623

- Ceccarelli, F., La Scaleia, B., Russo, M., Cesqui, B., Gravano, S., Mezzetti, M., **Moscatelli, A.**, d'Avella, A., Lacquaniti, F., Zago, M. (2018). Rolling Motion Along an Incline: Visual Sensitivity to the Relation Between Acceleration and Slope. *Frontiers in Neuroscience*, 12, 406. <http://doi.org/10.3389/fnins.2018.00406>
- Fani, S., Ciotti, S., Battaglia, E., **Moscatelli, A.**, Bianchi, M. (2018). W-FYD: a Wearable Fabric-based Display for Haptic Multi-Cue Delivery and Tactile Augmented Reality. *IEEE Transactions on Haptics*, 11(2):304–316. doi: 10.1109/TOH.2017.2708717.
- Russo, M., Cesqui, B., La Scaleia, B., Ceccarelli, F., Maselli, A., **Moscatelli, A.**, Zago, M., Lacquaniti, F., d'Avella, A. (2017). Intercepting virtual balls approaching under different gravity conditions: evidence for spatial prediction. *Journal of Neurophysiology*, 118(4):2421–2434. doi: 10.1152/jn.00025.2017
- Bianchi, M., **Moscatelli, A.**, Ciotti, S., Bettelani, G. C., Fioretti, F., Lacquaniti, F., Bicchi, A. (2017). Tactile Slip and Hand Displacement: Bending Hand Motion with Tactile Illusions. In *World Haptics Conference (WHC), 2017* (pp. 96–100).
- Naceri, A., **Moscatelli, A.**, Haschke, R., Ritter, H., Santello, M., Ernst, M. O. (2017). Multi-digit force control during unconstrained grasping in response to object perturbations. *Journal of Neurophysiology*, 117(5):2025-2036. <http://doi.org/10.1152/jn.00546.2016>
- Moscatelli, A.**, Bianchi, M., Serio, A., Terekhov, A., Hayward, V., Ernst, M. O., Bicchi, A. (2016) The Change in Fingertip Contact Area as a Novel Proprioceptive Cue. *Current Biology*, 26, 1159-1163. <http://dx.doi.org/10.1016/j.cub.2016.02.052>
- Santello, M., Bianchi, M., Gabiccini, M., Ricciardi, E., Salviotti, G., Prattichizzo, D., Ernst, M. O., **Moscatelli, A.**, Jörntell, H., Kappers, A., Kyriakopoulos, K., Castellini, C., Bicchi, A. (2016) Towards a synergy framework across neuroscience and robotics: Lessons learned and open questions. Reply to comments on: “Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands” *Physics of Life Reviews*, 17, 54-60. <http://dx.doi.org/10.1016/j.plrev.2016.06.007>
- Santello, M., Bianchi, M., Gabiccini, M., Ricciardi, E., Salviotti, G., Prattichizzo, D., Ernst, M. O., **Moscatelli, A.**, Jörntell, H., Kappers, A., Kyriakopoulos, K., Castellini, C., Bicchi, A. (2016) Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands. *Physics of Life Reviews*, 17, 1-23. <http://doi.org/10.1016/j.plrev.2016.02.001>
- Jetzschke, S., Ernst, M. O., **Moscatelli, A.**, and Böddeker, N. (2016). Going round the bend: Persistent personal biases in walked angles. *Neuroscience Letters*, 617, 72-75. <http://doi.org/dx.doi.org/10.1016/j.neulet.2016.01.026>
- Soltoggio A., Bläsing B., **Moscatelli A.**, Schack T. (2016) The Aikido inspiration to safety and efficiency: an investigation on forward roll impact forces. In *Advances in Intelligent Systems and Computing*, eds. P. Chung, A. Soltoggio, C.W. Dawson, Q. Meng, M. Pain (Springer Berlin Heidelberg), 119-127.
- Dallmann, C.J., Ernst, M.O., **Moscatelli, A.** (2015) The role of vibration in tactile speed perception. *Journal of Neurophysiology*, 114(6), 3131-3139. <http://doi.org/10.1152/jn.00621.2015>
- Moscatelli, A.**, Hayward, V., Wexler, M., Ernst, M.O. (2015) Illusory Tactile Motion Perception: An Analog of the Visual Filehne Illusion. *Scientific Reports*, 5:14584, 1-12. doi: 10.1038/srep14584
- Naceri, A., **Moscatelli, A.**, Chellali, R. (2015) Depth discrimination of constant angular size stimuli

in action space: role of accommodation and convergence cues. *Frontiers in Human Neuroscience* 9:511, 1-8. doi: 10.3389/fnhum.2015.00511

La Scaleia, B., Zago, M., **Moscattelli, A.**, Lacquaniti, F., and Viviani, P. (2014). Implied dynamics biases the visual perception of velocity. *PLoS One* 9:3, e93020, 1-15.

Lacquaniti, F., Carrozzo, M., Andrea d'Avella, La Scaleia, B., **Moscattelli, A.**, and Zago, M. (2014). How long did it last? You would better ask a human. *Frontiers in Neurobotics* 8:2, 1-12.

**Moscattelli, A.**, Naceri, A., and Ernst, M.O. (2014). Path integration in tactile perception of shapes. *Behavioural Brain Research* 274, 355-364.

**Moscattelli, A.**, Bianchi, M., Serio, A., Atassi, O. Al, Fani, S., Terekhov, A., Hayward, V., Ernst, M.O., and Bicchi, A. (2014). A change in the fingertip contact area induces an illusory displacement of the finger, in *Haptics: Neuroscience, Devices, Modeling, and Applications*, eds. M. Auvray and C. Duriez (Springer Berlin Heidelberg), 72-79. **Best Paper Award**

**Moscattelli, A.**, Scheller, M., Kowalski, G. J., and Ernst, M.O. (2014). The Haptic Analog of the Visual Aubert-Fleischl Phenomenon, in *Haptics: Neuroscience, Devices, Modeling, and Applications*, eds. M. Auvray and C. Duriez (Springer Berlin Heidelberg), 34-40.

Naceri, A., **Moscattelli, A.**, Santello, M., and Ernst, M.O. (2014). Multi-digit Position and Force Coordination in Three- and Four-Digit Grasping. In *Haptics: Neuroscience, Devices, Modeling, and Applications*, eds. M. Auvray and C. Duriez (Springer Berlin Heidelberg), 101-108.

Naceri, A., **Moscattelli, A.**, Santello, M., and Ernst, M.O. (2014). Coordination of multi-digit positions and forces during unconstrained grasping in response to object perturbations. *2014 IEEE Haptics Symposium*, 35-40.

Rossi, S., Studer, V., **Moscattelli, A.**, Motta, C., Coghe, G., Fenu, G., Caillier, S., Buttari, F., Mori, F., Barbieri, F., et al. (2013). Opposite Roles of NMDA Receptors in Relapsing and Primary Progressive Multiple Sclerosis. *PLoS One* 8:6, e67357, 1-13.

**Moscattelli, A.**, Naceri, A., and Ernst, M.O. (2013). Navigation in the fingertip. *Proceedings IEEE World Haptics Conference*, 519-523.

Lacquaniti, F., Bosco, G., Indovina, I., La Scaleia, B., Maffei, V., **Moscattelli, A.**, and Zago, M. (2013). Visual gravitational motion and the vestibular system in humans. *Frontiers in Integrative Neuroscience* 7:101, 1-12.

Mori, F., Kusayanagi, H., Monteleone, F., **Moscattelli, A.**, Nicoletti, C. G., Bernardi, G., and Centonze, D. (2012). Short interval intracortical facilitation correlates with the degree of disability in multiple sclerosis. *Brain Stimulation*, 6:1, 67-71.

**Moscattelli, A.**, Mezzetti, M., and Lacquaniti, F. (2012). Modeling psychophysical data at the population-level: The generalized linear mixed model. *Journal of Vision* 12:26, 1-17.

Zago, M., Carrozzo, M., **Moscattelli, A.**, and Lacquaniti, F. (2011). Time, Observation, Movement. *Cognitive Critique* 4, 61-86.

Di Paola, M., **Moscattelli, A.**, Bigler, E. D., Caltagirone, C., and Carlesimo, G. a. (2011). White matter changes in patients with hypoxic amnesia. *Neurocase* 17, 46-56.

**Moscattelli, A.**, Polito, L., and Lacquaniti, F. (2011). Time perception of action photographs is

more precise than that of still photographs. *Experimental Brain Research* 210, 25-32.

**Moscatelli, A.**, and Lacquaniti, F. (2011). The weight of time: Gravitational force enhances discrimination of visual motion duration. *Journal of Vision* 11:14, 1-17.

Carrozzo, M., **Moscatelli, A.**, and Lacquaniti, F. (2010). Tempo rubato: Animacy speeds up time in the brain. *PLoS One* 5:12, e15638, 1-13.

INVITED  
PRESENTATIONS  
AND LECTURES

## 2023

Touch and hand movements: optimal integration and biased combination. Invited Talk at Workshop: “Touch in context: from the body to the external world”. Chairs: Belkis Ezgi Arikan, Dimitris Voudouris. TeaP Conference, Trier, Germany.

## 2022

Invited talk: “Touch and Hand Movements”, Italian Institute of Technology (IIT), Genova, Italy.

Invited Lecture at 8th International Summer School of Neuroengineering, University Genova, Genova, Italy. From 18th to 22nd July 2022.

## 2021

Keynote Speech: The role of slip motion for the control of reaching movements. Invited talk at Workshop: “The sense of touch: interplay between action and perception and underlying body representations”, University Gießen, Gießen, Germany (virtual conference).

Invited talk: “Role of textures and slip motion for the control of hand reaching”, Ulm University, Ulm, Germany.

Invited talk at Workshop: “Introduction to R and Models for Psychophysics”, Ulm University, Ulm, Germany.

Keynote Speech: Role of textures and slip motion for the control of hand reaching. Invited talk at Workshop: “MENTE FATTA A MANO: COME LA MANO INFLUENZA CHI SIAMO”, University La Sapienza, Rome, Italy.

Invited talk at Workshop: “Tactile Representation of Motion and Space”, IEEE World Haptics Conference (virtual conference).

## 2020

Keynote Lecture at “AcTive Haptic hUMans and Robots (THUMB): Human Active Touch”. Eurohaptics 2020 Virtual conference.

Multi-cue integration in human somatosensory system. Workshop: “WS7: TIGHT–Tactile InteGration for Humans and arTificial systems”, IEEE RO-MAN 2020 Virtual conference.

## 2019

Motion perception in touch and vision: analogies and differences, Faculté des Sciences du Sport, Campus de Luminy, Marseille, France.

## 2018

Insights from Behavioral Neuroscience for the design of haptic devices. Within the Workshop “User-centred methods in Human Robot Interaction”, IROS 2018, Madrid, Spain.

Keynote Lecture: “The psychophysics of touch: Towards an early assessment of tactile dysfunction in diabetic patients”. Neurodiab 2018, Rome, Italy.

## 2017

Combining Tactile and Hand Motion: Constancy, Priors and Perceptual Illusions. Experimental Psychology, Team Perception and Action, Justus-Liebig University Gießen, Gießen, Germany.

Workshop: Analysis of Categorical Data in Psychophysics. Experimental Psychology, Team Perception and Action, Justus-Liebig University Gießen, Gießen, Germany.

## 2016

Perceptual illusions and priors in the combination of tactile and hand motion. Within the ERC PATCH Closing Workshop on Computational Touch, UPMC Jussieu Campus, Paris (France).

Invariants and priors in tactile perception of object motion. Within the Workshop “Haptic Invariance: from Mechanics, Perception, and Neural Coding to Interface Design”, Haptics Symposium 2016, Philadelphia, Pennsylvania (USA).

## ABSTRACTS AND CONFERENCES

**Moscattelli, A.** (2017). Tactile Motion Perception In Workshop: “Wearable haptic systems: design, applications, and perspectives”, IEEE World Haptics, Fürstfeldbruck (Munich), Germany

Bianchi, M. and **Moscattelli, A.**, Organizers. (2016) Full-day Workshop “Human and Robot Hands, Human and Robot Touch: Sensorimotor Synergies to Bridge the Gap Between Neuroscience and Robotics”, Haptics Symposium 2016, Philadelphia, Pennsylvania (USA).

**Moscattelli, A.** (2016) Sensorimotor Synergies: Fusion of Cutaneous Touch and Proprioception in the Perceived Hand Kinematics. Within the Workshop “Human and Robot Hands, Human and Robot Touch: Sensorimotor Synergies to Bridge the Gap Between Neuroscience and Robotics”, Haptics Symposium 2016, Philadelphia, Pennsylvania (USA).

Böddeker, N., **Moscattelli, A.**, and Ernst, M.O. (2014). Homing with audio landmarks and path integration. *Journal of Vision*, 14(10), 2.

**Moscattelli, A.**, and Lacquaniti, F. (2011). The weight of time: implied gravitational force enhances discrimination of visual motion duration. *Journal of Vision*, 11(11), 1217.

Carrozzo, M., **Moscattelli, A.**, and Lacquaniti, F. (2011). Tempo rubato: Animacy speeds up time in the brain. *Journal of Vision*, 11(11), 1228.

## EDITORIAL ACTIVITY

Bianchi, M., and **Moscattelli, A.** (Eds.). (2016). *Human and Robot Hands*. Springer International Publishing. <http://doi.org/10.1007/978-3-319-26706-7>

Associate Editor in *Frontiers in Integrative Physiology*

Associate Editor, Special Issue WHC2021, *IEEE Transactions on Haptics*

Bianchi, M., and **Moscattelli, A.** (Eds.). (2016). *Human and Robot Hands*. Springer International Publishing. <http://doi.org/10.1007/978-3-319-26706-7>



Occasional reviewer for the following journals: Journal of Neurophysiology, Journal of Vision, Experimental Brain Research, Journal of Experimental Psychology: Human Perception and Performance, Cognitive Psychology, Multisensory research, Attention Perception and Psychophysics, IEEE Transactions on Haptics, IEEE Transaction on Human Machine System, PLoS ONE, Scientific Reports.

TEACHING  
EXPERIENCE

**Università degli Studi di Roma “Tor Vergata”** **2015-Present**  
Updated list available on the website of the University

**University of Bielefeld** **September, 2011 - September, 2015**  
*Teaching Assistant*  
Faculty of Biology; Project Module “Touch and Audition”.

*Supervision*  
Chris Dallmann, M.Sc., Meike Scheller, M.Sc, Gabriele J. Kowalsky, M.Sc., Shirley Mey, M.Sc., Sven Bergfeld, Janina Röckner.

**Università degli Studi di Roma “Tor Vergata”** **September, 2009 - July, 2010**  
*Supervision*  
Laura Polito, M.D.

OPEN-SOURCE  
SOFTWARE

Author and maintainer of the CRAN package “MixedPsy” for the analysis of psychophysical data in R. Freely available at <https://cran.r-project.org/web/packages/MixedPsy/index.html>

PERSONAL SKILLS

**Biostatistics:** Excellent knowledge of statistical inference, with a special focus on the analysis of categorical data, models for repeated measurements and Bayesian models.

**Programming Languages:** R, Matlab, C, C++.

**Applications:**  $\LaTeX$ , Blender, Inkscape, Adobe Illustrator, Adobe Photoshop.