

CURRICULUM VITAE

MICHAEL GRAZIANO

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WEB PAGES

Lab Webpage: <https://grazianolab.princeton.edu/>

Youtube Channel: <https://www.youtube.com/channel/UCroPynOvS49GkkHO834iIXQ>

Wikipedia: https://en.wikipedia.org/wiki/Michael_Graziano

DEGREES AND POSITIONS

2017-	Full Professor, Dept. of Psychology and Neuroscience, Princeton University.
2007-2017	Associate Professor, Dept. of Psychology, Princeton University.
2001-2007	Assistant Professor, Dept. of Psychology, Princeton University.
1998-2001	Research Staff, Princeton University.
1996-1998	Post-Doctoral Fellow, Princeton University.
1996	PhD in Neuroscience, Princeton University.
1991-1996	Graduate student, Dept. of Psychology, Princeton University.
1989-1991	Graduate student, Dept. of Brain and Cognitive Sciences, MIT.
1989	BA, Princeton University.

INVITED LECTURES

2022	Keynote Speaker, Montreal AI and Consciousness Conference
2022	NIH Consciousness Research Interest Group, online
2022	NeuroAI Conference, Paris
2022	Intel AI Symposium, online
2021	Brain and Mind Computational Seminar, Aalto University
2021	Colloquium talk, York University, Ontario,
2021	Australian Childhood Foundation, keynote, Sydney Australia
2021	EdukCircle International Convention on Psychology, keynote, Phillipines
2021	University College London, colloquium talk, London
2020	Colloquium speaker, Gottingen
2020	Colloquium speaker, Rutgers
2020	Conference speaker, Jerusalem
2019	Invited Lecture, MIT
2019	Invited lecture, Google Deep Mind, London

2019 TEDx Cornell
2019 Colloquium speaker, Taipei, National University of Taiwan
2019 Invited Speaker, NIH, Conference on Consciousness and Attention
2018 Invited Speaker, Max Planck Symposium on Consciousness, Berlin
2018 Keynote Speaker, European Society for Philosophy and Psychology, Rejika, Croatia
2018 Invited Speaker, Trinity College, Dublin
2018 Invited Speaker Chile Science Festival,
2017 Keynote speaker, Designed Mind Conference, Edinburgh.
2016 Colloquium speaker, Montreal
2016 Invited speaker, Neurocom summer school, Leipzig.
2016 Keynote speaker, ASSC, Buenos Aires.
2016 Colloquium speaker, George Washington University.
2016 Colloquium speaker, University College London.
2015 Invited Speaker, Accessibility and Consciousness Conference, Paris.
2015 Colloquium speaker, Neurospin, Paris.
2015 Colloquium speaker, Harvard.
2015 Invited lecture, Living Machines Workshop, Barcelona.
2015 Invited lecture at Modeling Self on Others conference, Budapest.
2015 Princeton Plasma Physics Laboratory, Science on Saturday public lecture.
2015 Colloquium speaker, Columbia University,
2014 Colloquium speaker, El Colegio Nacional, Mexico.
2014 Summer program in social neuroscience, Dartmouth
2014 Sage Center, Santa Barbara CA, Distinguished Visitor and Speaker
2014 Plenary Speaker, Toward a Science of Consciousness Conference, Tucson AZ
2013 Colloquium speaker, Buffalo psychology department
2012 Invited Speaker, Conference on Consciousness, Montreal
2012 Colloquium speaker, NYU
2012 Colloquium speaker, Rockefeller University, NYC
2012 Colloquium speaker, Edmonton Canada
2011 Colloquium speaker, Karolinska Institute, Stockholm
2011 Invited Speaker, Conference on Vision, Rovereto Italy
2011 Colloquium speaker, UCLA
2011 Invited speaker, mini symposium, Stanford CA
2010 Colloquium speaker, UC San Diego
2010 Colloquium speaker, UC Berkeley
2010 Keynote Speaker, Neuromechanics Symposium, University of Chicago
2010 Colloquium speaker, City College of New York
2009 Colloquium speaker, Rutgers
2009 Keynote speaker, Motor Control Symposium, Chicago
2008 Colloquium speaker, University of Chicago
2008 Colloquium speaker, University of Lethbridge
2008 Colloquium speaker, University of Pennsylvania
2007 International Conference on Premotor Cortex, Leuven Belgium
2007 International Neuroethology Conference, Vancouver Canada
2007 Eleventh international conference on cognitive and neural systems, Boston
2007 Colloquium speaker, University of Connecticut

2006 Colloquium speaker, Columbia College, NY
2006 Colloquium speaker, King's County College, NY
2005 Neural Control of Movement, Florida
2004 Colloquium speaker, Baylor College, Houston TX
2004 Colloquium speaker, Max Plank Inst., Tubingen Germany
2004 Idiomotor Apraxia Conference, Bethesda VA
2004 Society for Neuroscience Mini-Symposium
2004 Colloquium speaker, Stanford CA
2004 Colloquium speaker, Birmingham Alabama
2004 Cognitive Neuroscience Society Symposium, San Francisco
2004 Colloquium speaker, Northwestern
2003 Colloquium speaker, NYU
2003 Colloquium speaker, Penn State
2003 Progress in Motor Control IV, Caen, France
2002 Colloquium speaker, Brandeis, MA
2002 Attention in Action symposium, Birmingham, England
2002 Colloquium speaker, Columbia University, New York, NY
2002 Conference on Gain Fields, Munich Germany
2002 AAAS symposium, Movement Control, Boston
2002 Conference on Body Representation, London
2001 Colloquium speaker, Johns Hopkins
2001 Conference on Neuromorphic Engineering, Telluride Co
2001 Sloan Speaker Series, Caltech
2001 Colloquium speaker, Salk Institute
2001 Colloquium speaker, MIT
2000 Colloquium speaker, Princeton University
2000 Colloquium speaker, University of Pennsylvania
2000 Invited speaker, Attention and Performance XVI
2000 Invited speaker, Conference on spatial processing, Monterey CA
2000 Invited Speaker, Spring Brain Conference, Sedona AZ
2000 Colloquium speaker, University of Rochester
2000 Colloquium speaker, Rowan College
2000 Invited Speaker, NIH
1999 Colloquium speaker, Baylor College
1999 Colloquium speaker, Rutgers College
1998 Colloquium speaker, University of Texas at Austin
1998 Invited Speaker, Conference on spatial processing, Duesseldorf Germany
1997 Colloquium speaker, Columbia University, NY
1997 Colloquium speaker, University of Buffalo
1997 Colloquium speaker, UC Irvine
1997 Invited speaker, conference on spatial processing, Bethesda
1996 Invited speaker, satellite symposium on spatial processing, Society for Neuroscience
1996 Invited speaker, neuroscience conference, Trieste Italy
1996 Invited speaker, neuroscience conference, Santorini Greece
1996 Invited speaker, neuroscience conference, University of Rochester
1996 Invited speaker, Neural Control of Movement conference, Florida

- 1995 Invited speaker, neuroscience conference, Ouyama Japan
1995 Invited speaker, neuroscience conference, Saporo Japan
1994 Invited speaker, Attention and Performance conference, Osaka Japan
1993 Invited speaker, Cognitive Neuroscience conference, Lake Tahoe

BOOKS

1. Books on neuroscience

Graziano MSA (2023) Charlie's Lab. Immersion Poetry Series. In press.

Graziano MSA (2019) Rethinking Consciousness: A Scientific Theory of Subjective Experience. W. W. Norton, New York. **Finalist for PEN/Falkner Award, 2020.**

Graziano MSA (2018) The Spaces Between Us: A Story of Neuroscience, Evolution, and Human Nature. Oxford University Press, Oxford UK.

Graziano MSA (2013) Consciousness and the Social Brain. Oxford University Press, Oxford UK.

Graziano MSA (2010) God, Soul, Mind, Brain: A Neuroscientist's Reflections on the Spirit World. Leapfrog Press, Teaticket MA.

Graziano MSA (2008) The Intelligent Movement Machine: An Ethological Perspective on the Primate Motor System. Oxford University Press, Oxford UK.

2. Novels

Graziano MSA (2012) Death My Own Way. Leapfrog Press, Teaticket MA.

Graziano MSA (2009) The Divine Farce. Leapfrog Press, Teaticket MA.

Graziano MSA (2008) The Love Song of Monkey. Leapfrog Press, Teaticket MA.

3. Books for young readers (under the penname B. B. Wurge)

Wurge BB (2010) The Last Notebook of Leonardo. Leapfrog Press, Teaticket MA. **Winner of the Moonbeam Award, 2010.**

Wurge BB (2009) Squiggle. Leapfrog Press, Teaticket MA.

Wurge BB (2008) Billy and the Birdfrogs. Leapfrog Press, Teaticket MA.

4. Books of music

Graziano MSA (2011) *Three Modern Symphonies*. Quercus Press, Teaticket MA.

Graziano MSA (2012) *Symphonies 4, 5, and 6*. Quercus Press, Teaticket MA.

Graziano MSA (2012) *Five String Quartets*. Quercus Press, Teaticket MA.

ARTICLES IN PUBLIC MEDIA

Graziano, MSA (2020) Explaining consciousness. *The Philosopher's Magazine*, 88: 64-68.

Graziano, MSA (2020) Why you don't know your own mind: Rethinking consciousness and eliminativism. *Institute of Art and Ideas News*.

Graziano MSA (2019) How close are we to uploading our minds? Video essay, TEDed, <https://www.youtube.com/watch?v=2DWnvx1NYUA&t=1s>.

Graziano MSA (2019) What is consciousness? Video essay, TEDed, <https://www.youtube.com/watch?v=MASBIB7zPo4&t=3s>.

Graziano MSA (2019) How the brain constructs consciousness. *Brainfirst Magazine*, Issue 1, Article 3.

Graziano MSA (2019) Will your uploaded mind still be you? *The Wall Street Journal*.

Graziano MSA (2019) What happens if your mind lives forever on the internet? *The Guardian*.

Graziano MSA (2019) True nature of consciousness: Solving the biggest mystery of your mind. *New Scientist*.

Graziano MSA (2018) Everyone has an invisible second skin: How personal space affects every aspect of our lives. *Psychology Today*.

Graziano MSA (2018) Our primal need for personal space. *The Wall Street Journal*.

Graziano MSA (2018) The unconscious rules of personal space. *The Atlantic*.

Graziano MSA (2018) How you react when startled is a window into your soul. *The Atlantic*.

Graziano MSA (2016) The brain damage that hides half the world. *The Atlantic*.

Graziano MSA (2016) Why you should believe in the digital afterlife. *The Atlantic*.

Graziano MSA (2016) A new theory explains how consciousness evolved. The Atlantic.

Graziano MSA (2016) How consciousness explains ventriloquists and religion. The Atlantic.

Graziano MSA (2016) Your brain sees things you don't. The Atlantic.

Graziano MSA (2016) Most popular theories of consciousness are worse than wrong. The Atlantic.

Graziano MSA (2016) How phantom limbs explain consciousness. The Atlantic.

Graziano MSA (2016) Consciousness is not mysterious. It's just the brain describing itself – to itself. The Atlantic.

Graziano MSA (2016) The Hunger Mood. Aeon Magazine.

Graziano MSA (2015) Build-A-Brain. Aeon Magazine.

Graziano MSA (2014) Are We Really Conscious? New York Times.

Graziano MSA (2014) The First Smile: The evolution of human expression. Aeon Magazine.

Graziano MSA (2014) An inconvenient child. Aeon Magazine.

Graziano MSA (2013) Endless fun: will we ever upload our minds to computers? Aeon Magazine.

Graziano MSA (2013) Consciousness and the unashamed rationalist. Huffington Post.

Graziano MSA (2013) How the light gets out: a new theory of consciousness. Aeon Magazine.

Graziano MSA (2011) The spirit ends when the brain dies. Huffington Post.

Graziano MSA (2011) Does the eternal soul exist? Studies of brain damage suggest no. Huffington Post.

Graziano MSA (2011) Is spirituality a byproduct of evolution? Huffington Post.

Graziano MSA (2011) Casey Anthony, the Jury's Decision, and the Neuroscience of Morality. Huffington Post.

Graziano MSA (2011) Why is Mozart a religious experience? Huffington Post.

Graziano MSA (2011) The spirit constructed in the brain. Huffington Post.

Graziano MSA (2011) The Darwinian evolution of religion. Huffington Post.

Graziano MSA (2010) Can neuroscience “explain away” religion? John Templeton Foundation, Big Questions Online.

PAPERS AND CHAPTERS

Graziano MSA (2022) A conceptual framework for consciousness. Proceedings of the National Academy of Sciences, USA, 18: e2116933119.

Graziano MSA (2022) The origin of smiling, laughing, and crying: The defensive mimic theory. Evolutionary Human Sciences, 4: DOI 10.1017/ehs.2022.5.

Graziano MSA, Christian IR (2022) Consciousness: In your own words. PsyArXiv, doi: <https://psyarxiv.com/4fuq5>

Bio BJ, Guterstam A, Pinsk M, Wilterson AI, Graziano MSA (2022) Right Temporoparietal Junction Encodes Inferred Mental Experience of Others. Neuropsychologia, 171: No. 108243.

Graziano MSA (2022) Consciousness is already solved: The continued debate is not about science. Behavioral and Brain Sciences, 45: E50, DOI <https://doi.org/10.1017/S0140525X21001837>.

Schurger A, Graziano MSA (2022) Consciousness explained or described? Neuroscience of Consciousness, 7, 1-9, DOI: <https://doi.org/10.1093/nc/niac001>.

Bio BJ, Graziano MSA (2021) Using Smiles, Frowns, and Gaze to Attribute Conscious States to Others: Testing Part of the Attention Schema Theory. PsyArXiv, doi: [10.31234/osf.io/7s8bk](https://doi.org/10.31234/osf.io/7s8bk).

Wilterson AI, Graziano MSA (2021) The Attention Schema Theory in a Neural Network Agent: Controlling Visuospatial Attention Using a Descriptive Model of Attention. Proceedings of the National Academy of Sciences USA, 118 (33) e2102421118: <https://doi.org/10.1073/pnas.2102421118>.

Wilterson AI, Nastase SA, Bio BJ, Guterstam A, Graziano MSA (2021). Attention, awareness, and the right temporoparietal junction. Proceedings of the National Academy of Sciences USA 118(25):e2026099118. doi: 10.1073/pnas.2026099118. PMID: 34161276.

Guterstam A, Bio BJ, Wilterson AI, Graziano M (2021) Temporo-parietal cortex involved in modeling one's own and others' attention. Elife 10: e63551. doi: 10.7554/eLife.63551.

Graziano MSA (2021) Understanding Consciousness. *Brain*, 144: 1281-1283, <https://doi.org/10.1093/brain/awab046>.

Graziano MSA (2021) Human emotional expression and the peripersonal margin of safety. In: de Vignemont, F., Serino, A., Wong, HY., Farnè, A. (Eds). *The world at our fingertips: A multidisciplinary exploration of peripersonal space*. Oxford: Oxford University Press.

Graziano MSA (2020) An Extraordinary Neuroscience Lab. *Progress in Neurobiology* 195: 101933. doi: 10.1016/j.pneurobio.2020.101933.

Guterstam A, Graziano MSA (2020) Visual motion assists in social cognition. *Proceedings of the National Academy of Sciences USA*, 117: 32165-32168 DOI 10.1073/pnas.2021325117.

Graziano, MSA (2020) What makes us so certain that we're conscious? *Cognitive Neuroscience*, 12: 67-68, <https://doi.org/10.1080/17588928.2020.1838468>.

Guterstam A, Graziano MSA (2020) Reply to Görner et al.: Encoding gaze as implied motion. *Proceedings of the National Academy of Sciences USA*, 117: 20377, doi.org/10.1073/pnas.2013767117.

Wilterson AI, Kemper CM, Kim N, Webb TW, Reblando AMW, Graziano MSA (2020) Attention control and the attention schema theory of consciousness. *Progress in Neurobiology*, 195: 101844, doi: 10.1016/j.pneurobio.2020.101844.

Guterstam A, Wilterson AI, Watchell D, and Graziano MSA (2020) Other people's gaze encoded as implied motion in the human brain. *Proceedings of the National Academy of Sciences USA*, 117: 13162-13167.

Guterstam A and Graziano MSA (2020) Implied motion as a possible mechanism for encoding other people's attention. *Progress in Neurobiology*, 190: 101797. DOI: 10.1016/j.pneurobio.2020.101797.

Graziano, M. S. A. (2020) Consciousness and the attention schema: Why it has to be right. *Cognitive Neuropsychology*, doi 10.1080/02643294.2020.1761782.

Graziano, M. S. A., Guterstam, A., Bio, B. J., & Wilterson, A. I. (2020). Toward a standard model of consciousness: reconciling the attention schema, global workspace, higher-order thought, and illusionist theories. *Cognitive Neuropsychology* 37, 155-172.

Graziano MSA, Morsella E (2020) A new motor approach to consciousness: Implications for the simulation of future behavior. *Journal of Consciousness Studies*, 27: 88-103.

Graziano MSA (2019) We are machines that claim to be conscious. *Journal of Consciousness Studies*, 26: 95-104.

Graziano MSA (2019) Attributing awareness to others: The attention schema theory and its relationship to behavioral prediction. *Journal of Consciousness Studies*, 26: 17-37.

Guterstam A, Kean HH, Webb TW, Kean FS, Graziano MSA (2018) An implicit model of other people's visual attention as an invisible, force-carrying beam projecting from the eyes. *Proceedings of the National Academy of Sciences USA*, 116: 328-333.

Graziano MSA (2018) The temporoparietal junction and awareness. *Neuroscience of Consciousness*, 4(1): niy005

Graziano MSA, Webb TW (2018) Understanding consciousness by building it. In: *Bloomsbury Companion to Philosophy of Consciousness*. Jacquette D., Ed. London, Bloomsbury.

Graziano MSA (2018) The Attention Schema Theory of Consciousness. In: *Routledge Handbook of Consciousness*. Gennaro R., Ed. Abingdon, UK: Routledge.

Bio BJ, Webb TW, Graziano MSA (2018) Projecting one's own spatial bias onto others during a theory-of-mind task. *Proceedings of the National Academy of Sciences USA*, 115: E1684-E1689.

Graziano MSA (2017) The Attention Schema Theory: A foundation for engineering artificial consciousness. *Frontiers in Robotics and AI*, DOI: 10.3389/frobt.2017.00060.

Igelström K, Graziano MSA (2017) The inferior parietal lobe and temporoparietal junction: a network perspective. *Neuropsychologia*, 105: 70-83.

Igelström K, Webb TW, Graziano MSA (2017) Functional connectivity between the temporoparietal cortex and cerebellum in autism spectrum disorder. *Cerebral Cortex*. 27: 2617-2627.

Graziano MSA, Webb TW (2017) From sponge to human: The evolution of consciousness. In: Kaas, J (ed.), *Evolution of Nervous Systems 2e*. vol. 3, pp. 547–554. Oxford: Elsevier.

Webb TW, Igelström K, Schurger A, Graziano MSA (2016) Cortical networks involved in visual awareness independently of visual attention. *Proceedings of the National Academy of Sciences USA*, 113: 13923-13928.

Graziano MSA (2016) Consciousness engineered. *Journal of Consciousness Studies*. 23: 98-115.

Igelström K, Webb TW, Kelly YT, Graziano MSA (2016) Topographical organization of attentional, social and memory processes in the human temporoparietal cortex. *eNEURO*, 3: ENEURO.0060-16.2016.

Webb TW, Kean HH, and Graziano MSA (2016) Effects of awareness on the control of attention. *Journal of Cognitive Neuroscience*, 28: 842-851.

Graziano MSA (2015) Ethological action maps: A paradigm shift for the motor cortex. *Trends in Cognitive Sciences*, 20: 121-132.

Igelström K, Webb TW, Graziano MSA (2015) Neural processes in the human temporoparietal cortex separated by localized independent component analysis. *Journal of Neuroscience*, 35: 9432-9445.

Graziano MSA (2015) A new view of the motor cortex and its relation to social behavior. In *Shared Representations: Sensorimotor Foundations of Social Life*. Obhi SS, Cross ES (Eds), Cambridge, UK: Cambridge University Press.

Graziano MSA (2015) Cortical action representations. In: *Brain Mapping: An Encyclopedic Reference*. Toga AW, Poldrack RA (Eds) Amsterdam: Elsevier.

Webb TW, Graziano MSA (2015) The attention schema theory: a mechanistic account of subjective awareness. *Frontiers in Psychology*, Vol 6, article 500, doi: 10.3389/fpsyg.2015.00500.

Graziano MSA, Webb TW (2014) A mechanistic theory of consciousness. *International Journal of Machine Consciousness*, 6, 163-176.

Graziano MSA (2014) How Ventriloquism Works. *Frontiers for young minds*, DOI:10.3389/frym.2014.00004.

Graziano MSA (2014) Speculations on the evolution of awareness. *Journal of Cognitive Neuroscience*, 26, 1300-1304.

Kelly YT, Webb TW, Meier JD, Arcaro MJ, Graziano MSA (2014) Attributing awareness to oneself and to others. *Proceedings of the National Academy of Sciences USA*, 111: 5012-5017.

Graziano MSA (2011) New Insights into Motor Cortex. *Neuron*, 71: 387-388.

Graziano MSA (2011) Cables vs networks: Old and new views on the function of motor cortex. *Journal of Physiology*, 589: 2439.

Graziano MSA and Kastner S (2011) Awareness as a perceptual model of attention. *Cognitive Neuroscience*, 2: 125-133.

Graziano MSA and Kastner S (2011) Human consciousness and its relationship to social neuroscience: A novel hypothesis. *Cognitive Neuroscience*, 2: 98-113.

Aflalo TN and Graziano MSA (2011) The organization of the macaque extrastriate visual cortex re-examined using the principle of spatial continuity of function. *Journal of Neurophysiology*, 105: 305-320.

- Graziano MSA (2010) Ethologically relevant movements mapped on the motor cortex. In: Primate Neuroethology, Ghazanfar and Platt (Eds). Oxford University Press, Oxford UK.
- Dombeck DA, Graziano MSA and Tank DW (2009) Functional clustering of neurons in motor cortex determined by cellular resolution imaging in awake behaving mice. *Journal of Neuroscience*, 29: 13751-13760.
- Macfarlaine N and Graziano MSA (2009) Diversity of Grip in *Macaca mulatta*. *Experimental Brain Research*, 197: 255-268.
- Meier JD, Aflalo TN, Kastner S, Graziano MSA (2008) Complex organization of human primary motor cortex: A high resolution fMRI study. *Journal of Neurophysiology*, 100: 1800-1812.
- Aflalo TN and Graziano MSA (2008) Four dimensional spatial reasoning in humans. *Journal of Experimental Psychology, Human Perception and Performance*, 34: 1066-1077.
- Graziano MSA and Aflalo TN (2007) Mapping behavioral repertoire onto the cortex. *Neuron*, 56: 239-251.
- Graziano MSA and Aflalo TN (2007) Rethinking cortical organization: Moving away from discrete areas arranged in hierarchies. *The Neuroscientist*, 13: 138-147.
- Aflalo TN and Graziano MSA (2007) Relationship between unconstrained arm movement and single neuron firing in the macaque motor cortex. *Journal of Neuroscience*, 27: 2760-2780.
- Aflalo TN and Graziano MSA (2006) Possible origins of the complex topographic organization of motor cortex: reduction of a multidimensional space onto a 2-dimensional array. *Journal of Neuroscience*, 26: 6288-6297.
- Aflalo TN and Graziano MSA (2006) Partial tuning of motor cortex neurons to final posture in a free-moving paradigm. *Proceedings of the National Academy of Sciences*, 103: 2909-2914.
- Graziano MSA (2006) The organization of behavioral repertoire in motor cortex. *Annual Review of Neuroscience*, 29: 105-134.
- Graziano MSA (2006) Progress in understanding spatial coordinate systems in the primate brain. *Neuron*, 51: 7-9.
- Graziano MSA and Cooke DF (2006) Parieto-frontal interactions, personal space, and defensive behavior. *Neuropsychologia*. 44: 845-859.
- Graziano MSA (2006) Feedback remapping and the cortical control of movement. In: Latash (Ed.) *Motor Control and Learning*. Springer, New York NY.
- Graziano MSA, Aflalo T, and Cooke DF (2005) Arm movements evoked by electrical stimulation in the motor cortex of monkeys. *Journal of Neurophysiology*, 94: 4209-4223.

Cooke DF and Graziano MSA (2004) Super-flinchers and nerves of steel: Defensive movements altered by chemical manipulation of a cortical motor area. *Neuron*, 43: 585-593.

Graziano MSA, Patel KT, and Taylor CSR (2004) Mapping from motor cortex to biceps and triceps altered by elbow angle. *Journal of Neurophysiology*, 92: 395-407.

Cooke DF and Graziano MSA (2004) Sensorimotor integration in the precentral gyrus: Polysensory neurons and defensive movements. *Journal of Neurophysiology*, 91: 1648-1660.

Graziano MSA, Cooke DF, Taylor CSR, and Moore T (2004) Distribution of hand location in monkeys during spontaneous behavior. *Experimental Brain Research*, 155: 30-36.

Graziano MSA, Taylor CSR, Cooke DF, and Moore T (2004a) A map of complex movements in motor cortex of primates. In Humphries and Riddoch (Eds.) *Action In Attention*. Psychology Press, Hove, pp. 211-232.

Graziano MSA, Gross CG, Taylor CSR, and Moore T (2004b) A system of multimodal areas in the primate brain. In: *Crossmodal Space and Crossmodal Attention*. Spence and Driver, Eds, Oxford University Press, Oxford UK, pp. 51-67.

Graziano MSA, Gross CG, Taylor CSR, and Moore T (2004c) Multisensory neurons for the control of defensive movements. In: *The Handbook of Multisensory Processes*. Gemma Calvert, Charles Spence and Barry Stein Eds. MIT Press, pp. 443-452.

Cooke DF and Graziano MSA (2003) Defensive Movements Evoked by Air Puff in Monkeys. *Journal of Neurophysiology*, 90: 3317-3329.

Cooke DF, Taylor CSR, Moore T, and Graziano MSA (2003) Complex movements evoked by microstimulation of Area VIP. *Proceedings of the National Academy of Sciences USA*, 100: 6163-6168.

Graziano MSA, Taylor CSR, Moore T, and Cooke DF (2002) The cortical control of movement revisited. *Neuron*, 36: 349-362.

Graziano MSA, Taylor CSR, and Moore T (2002) Probing cortical function with electrical stimulation. *Nature Neuroscience*, 5: 921.

Graziano MSA, Alisharan SA, Hu X, and Gross CG (2002) The clothing effect: Tactile neurons in the precentral gyrus do not respond to the touch of the familiar primate chair. *Proceedings of the National Academy of Sciences USA*, 99: 11930-11933.

Graziano MSA, Taylor CSR, and Moore T (2002) Complex movements evoked by microstimulation of precentral cortex. *Neuron*, 34: 841-851.

Graziano MSA and Botvinick MM (2002) How the brain represents the body: Insights from neurophysiology and psychology. In: *Common Mechanisms in Perception and Action: Attention and Performance XIX*. Eds. W. Prinz and B. Hommel. Oxford University Press, Oxford UK, pp. 136-157.

Graziano MSA (2001) Is reaching eye-centered, body-centered, hand-centered, or a combination? *Reviews in the Neurosciences*, 12: 175-186.

Graziano MSA (2001) A system of multimodal areas in the primate brain. *Neuron*, 29: 4-6.

Graziano MSA (2001) An awareness of space. *Nature*, 411: 903-904.

Graziano MSA, Cooke DF, and Taylor CSR (2000) Coding the location of the arm by sight. *Science*, 290: 1782-1786.

Graziano MSA and Gandhi S (2000) Location of the polysensory zone in the precentral gyrus of anesthetized monkeys. *Experimental Brain Research*, 135: 259-266.

Graziano MSA, Wheeler ME, and Gross CG (2000) From vision to action: How the primate brain encodes and remembers visuomotor space. In: JJ Bolhuis (Ed) *Brain, Perception, Memory: Advances in Cognitive Neuroscience*. Oxford University Press, Oxford UK, pp. 7-15.

Graziano MSA (1999) Where is my arm? The relative role of vision and proprioception in the neuronal representation of limb position. *Proceedings of the National Academy of Sciences USA*, 96: 10418-10421.

Gould E, Reeves AJ, Graziano MSA, and Gross CG (1999) Neurogenesis in the neocortex of adult primates. *Science*, 286: 548-552.

Graziano MSA, Reiss LAJ, and Gross CG (1999) A neuronal representation of the location of nearby sounds. *Nature*, 397: 428-430.

Nakamura K, Chung HH, Graziano MSA, and Gross CG (1999) A dynamic representation of eye position in the parieto-occipital sulcus. *Journal of Neurophysiology*, 81: 2374-2385.

Graziano MSA and Gross CG (1998) Visual responses with and without fixation: Neurons in premotor cortex encode spatial locations independently of eye position. *Experimental Brain Research*, 118: 373-380.

Graziano MSA and Gross CG (1998) Spatial maps for the control of movement. *Current Opinion in Neurobiology*, 8: 195 -201.

Graziano MSA, Hu XT, and Gross CG (1997) Coding the locations of objects in the dark. *Science*, 277: 239-241.

Graziano MSA, Hu XT, and Gross CG (1997) Visuo-spatial properties of ventral premotor cortex. *Journal of Neurophysiology*, 77: 2268-2292.

Graziano MSA and Gross CG (1997) Vision, Movement, and The Monkey Brain. In: *The Association Cortex: Structure and Function*. H. Sakata, A. Mikami, and J. Fuster, Eds. (Harwood Academic Publishers, Amsterdam): pp. 219-232.

Graziano MSA and Gross CG (1996) Multiple pathways for processing visual space. In *Attention and Performance XVI*. Edited by T. Inui and J.L. McClelland. MIT Press, Cambridge MA, pp.181-207.

Gross CG and Graziano MSA (1995) Multiple representations of space in the brain. *The Neuroscientist*, 1: 43-50.

Graziano MSA and Gross CG (1995) From eye to hand. In: *Scale in Conscious Experience: Is the Brain too Important to be Left to Specialists to Study?* J. King and K.H. Pribram, Eds. (Laurence Erlbaum Associates, Mahwah, N.J.): pp. 117-129.

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