

Curriculum Vitae

Dr. Alberto ZANI

Born in Rome on September 4th 1955, married, 2 boys.

Senior Researcher at the Institute of Molecular Bioimaging and Physiology, Italian National Research Council (C.N.R.), *c/o* Milan Research Area 3 (ARM3), 20125 Milan, Voice: Office: +39-02-66173340, Lab: +39-02-66173369; Fax: +39-02-66173405. E-Mail: alberto.zani@ibfm.cnr.it

Head of the “*Electro-Functional Brain Imaging unit*”, (EFBIu), of the Institute of Molecular Bioimaging and Physiology, Italian National Research Council (C.N.R.)
Personal WEBSITE: <http://erplabcnr.wordpress.com/>

Assistant Professor of “*Psychology*” at “*Motor Sciences*” Medical School of State University of Milan, Milan, Italy.

- LINKEDIN Profile: http://www.linkedin.com/profile/view?id=136118431&trk=tab_pro

- ResearchGate Profile: https://www.researchgate.net/profile/Alberto_Zani

- Google Scholar Citations Profile: <https://scholar.google.com/citations?user=Uo9TFLQAAAAJ&hl=en>

Bibliometric indicators, December 9, 2017

Google Scholar total citations = 2865

Google Scholar citations since 2012 = 1444

Google Scholar h-index = 31

Scopus h-index = 28

ISI-Web h-index = 27

Occupational History

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| 1990-2000 | Tenure Position as Researcher at the <i>Institute of Psychology</i> (IP) of the Italian CNR, Rome. |
| 2000-2002 | Tenure Position as Senior Researcher at the <i>Institute of Neuroscience and Bioimaging</i> (INB) of the Italian CNR, Milan. |
| 2003-up Today | Tenure Position as Senior Researcher at the <i>Institute of Molecular Bioimaging and Physiology</i> (formerly <i>Institute of Neuroscience and Bioimaging</i> , INB) of the Italian CNR, Milan. |

Research Interests:

Main Sectors: Cognitive Sciences & Neurosciences; Psychological Sciences.

Cognitive Neurosciences: Relationships between mind and brain, Anatomical and functional bases of mind, Neural Mechanisms of visuo-cognitive functions, Visual Perception, Visual Selective Attention, Neural Mechanisms for processing and representation of written language in the mono- and multi-lingual brain, Neural Mechanisms for processing and representation of emotions; 'Mirror neurons' and socio-relational empathy; Interindividual diurnal differences in visual information processing; Cognitive Psychophysiology, Cognitive Electrophysiology, Electrophysiological techniques, Visual event-related potentials (ERPs) and evoked potentials (EPs) of the brain. Cognitive Psychology. Arts and Sports Psychology. All research activities are carried out in the *Electro-Functional Brain Imaging unit* of the IBFM-CNR. Psycho-motor skills (e.g., Musicians Vs. non-musicians, or Athletes Vs. non-Athletes), information processing strategies and performance. Diurnal biological rhythms, diurnal typology (e.g., Morning Vs. Evening Types) and performance.

Sub-sectors: Electrophysiological indexing of visuo-motor coordination.

Visuo-motor coordination in normal individuals and split-brain patients. Role of dorso-lateral prefrontal areas in the suppression of processing of, and response to, irrelevant information.

Education and Post-Graduate Specialization

- 1979 **Graduation** "Summa cum laude" in Experimental Psychology, University "La Sapienza" of Rome; Dissertation: *Brain Chemical Neuro-transmitters: Metabolic, Functional and Behavioural Aspects* (Promotor: Prof. Alberto Oliverio; Discussant: Prof. Paolo Renzi).
- 1981-1982 **Fellowship** from the Italian National Council of Research (CNR) in the context of the Triennial Special Research Program "*Early Diagnosis and Prevention of Neural Sensory Deficits*" for a research Program to be carried out at the Umberto I° Hospital of Rome, Super-visor: Prof. Dr. Desiderio Passali.
- 1982 **Fellowship** (six months) from the Dutch Foreign Office for an experimental program to be carried out at the Institute of Physiology of University of Leiden, The Netherlands.
- 1982-84 **Visiting Research Fellow** at the Electrophysiology Laboratory (supervisor Dr. Gerard A. Kerkhof, PhD) of the Institute of Physiology of University of Leiden, The Netherlands.
- 1982-1990 **Research Fellow** at the Institute of Psychology of the Italian National Council of Research (CNR)
- 1990 Contest-Awarded **Specialization** in "*Physiological and Pharmacological Sciences*" from the Italian National Council of Research (CNR)
- 1991 **Scholarship** from James McDonnell Foundation for *Cognitive Neuroscience*, School of Medicine, Dartmouth College, USA.

Professional and technical updating:

- 1984 II° International Symposium on: "*Standard and Methodology of Auditory Brain Stem*

- Potentials*". Milan, January 25-26, 1984.
- 1995 International Workshop on «*Functional Magnetic Resonance Imaging (fMRI): How to interpret it, How to do it*». San Francisco, California, USA.
- 1995 International Workshop on «*Multimodal registration. Combining MRI, EEG, PET & MEG*» organized by the Rheinisch-Westfälischen Technischen Hochschule (RWTH), Neuroscan Inc, Aachen, Germania.
- 1996 International Workshop on fMRI (*Functional magnetic resonance of the brain*), Boston, USA.
- 1996 International Workshop on “*Visuospatial attention in the normal and split brain*”, Max-Planck Institute für Neuropsychologische Forschung, Leipzig, Germany.
- 1997 International Workshop on “*Functional Microstates of the brain*”, Department of Neurology, University of Zurich (Switzerland).
- 1998 International Workshop on “*CURRY, Multimodal neuroimaging: Accurate source localization of cerebral activity*”, Neurophysiopathology Unit, Udine “Maggiore” Hospital, Italy.
- 2006 International Workshop on “*Advanced Neuro Technologies Applications: Combining and applications of ERPs, MEG, PET, fMRI, & TMS Methods*”. IBFM-CNR, Segrate (MI), Italy, Sep 21-22, 2006.
- 2017 International Workshop on “*fNIRS. Uses and Rehabilitation Perspectives*”, Saint Mary’s Borning IRCSS, Don Carlo Gnocchi Foundation, Milan Italy, Oct 5, 2017.

Research Activities

Participation in National Intra-mural Institutional Projects

- 1980-81 *Research Assistant* at the Faculty of Psychology of “La Sapienza” University of Rome.
- 1981-84 *Research Assistant* in the Triennial Special Project of the Italian CNR: *Electrophysiological Techniques*.
- 1980 *Researcher* in the Italian-Dutch Bilateral Project of CNR: *Circadian Rhythms and Psychophysiology of Human Behaviour*.
- 1981-83 *Researcher* in the Triennial Special Project of CNR at Umberto I° Hospital of Rome: *Early Diagnosis and Prevention of Neural Sensory Deficits*.
- 1982-84 *Researcher* in the Triennial Special Research Project at ISEF, the Italian National Academy of Sport: *Psychophysiology of Motor and Sport Performance*.
- 1982 *Researcher* in the following Research Projects of the Neuropsychophysiological Division of the Institute of Psychology of CNR: *Cybernetic Models of Human Nervous System, Vigilance in the Laboratory and Industrial Workplace, Information processing of visual codes and Images, Hemispheric Specialization, Basic Processes in Human Information Processing, Circadian Rhythms, Work Shifts, and Information Processing*.

- 1983 *Researcher* in the following Research Projects of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Human Information Processing and neuronal processes,
Human Information Processing and Human Factors,
Psychological Modelling.
- 1984-86 *Researcher* in the following Research Projects of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Human Information processing and Neuronal Processes,
Human Information Processing and Human Factors.
- 1987 *Researcher* in the Research Project of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Evoked Potentials of the Brain and visual and auditory information.
- 1988 *Researcher* in the Research Projects of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Power of Suggestion and Biofeedback in Anxiety therapy
Physiological bases of visual and auditory information processing.
- 1989 *Researcher* in the Research Project of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Normal and Pathological Development of Language.
- 1990 *Researcher* in the Research Project of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Visual and Auditory Evoked Potentials of the Brain.
- 1990 *Researcher* in the following Research Projects of ISEF:
Cognitive mediation of neural processes of motor control,
Timing of neural processes underlying psychomotor performance,
Developmental mechanisms of visual selective attention and brain maturation.
- 1991 *Researcher* in the Research Project of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Physiological bases of visual and auditory information processing.
- 1992 *Researcher* in the Research Project of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Visual and Auditory processing of the Brain as investigated by ERPs.
- 1991 *Researcher* in the Research Project of the Neuropsychophysiological Division of the Institute of Psychology of CNR:
Physiological bases of visual and auditory information processing.
- 1987-89 *Researcher* in the ISEF Triennial Project:
Psychophysiology of Sport and Motor Skills.

Special Projects

Researcher in the following Special Research Projects:

National Projects

- 1983-85 Triennial Special Project of the CNR "*Preventive and Rehabilitation Medicine*", Sub-Project:
Involvement of Neurosensory and Neuropsychological Functions in Aging.
- 1983-85 Triennial Special Project of CNR "*Preventive and Rehabilitation Medicine*", Sub-Project:
Evoked Potentials of the Brain, Cognition, and Stress.
- 1985 Annual Special Project of ISEF granted by the Education and Research Ministry (MIUR):
Psychophysiological Correlates of Sport Performance.
- 1986 Annual Special Project of ISEF granted by the Education and Research Ministry (MIUR):
Hemispheric Asymmetries and Sustained Attention.
- 1987-89 Triennial Special Project of ISEF granted by the Education and Research Ministry (MIUR):
Developmental Trends of Psychophysiological Correlates of Sustained Attention.
- 1990-94 Quinquennial Special Project of CNR "*Stress*", Sub-Project:
Stress effects on Attentional Processes.
- 1997 MIUR COFIN Project: "*Neuro-anatomo-functional Study of Human Brain Activity*", directed by Prof. Ludovico Dalla Palma; Research activity in the research unit directed by Dr. Maria Antonella Brandimonte at the Faculty of Psychology of University of Trieste; Research Project: "*Electrophysiological Substrates of Cognitive and Visual Processes*"
- 2003 MIUR COFIN Project "*Functional and neural Organization of Referential and Figured Language: Studies in Normal Monolingual and Multilingual as well as in Pathological Subjects*" directed by Prof. Stefano Cappa; Research Unit directed by Prof. Alice Mado Proverbio at the Faculty of Psychology of University of Milan-Bicocca; Research Project: "*ERP Indexes of Neural Mechanisms for the Comprehension of Literal and Figured Language in Monolinguals and Polyglots*"

International Projects

- 1989-91 Triennial Italian-French Cooperative Project between ISEF and Université Joseph Fourier-Grenoble granted by the European Community (CEE):
Elaboration d'une méthodologie d'évaluation des capacités attentionnelles des athlètes de haut niveau.
- 1991-93 Triennial Italian-French Trilateral Project between ISEF, IP-CNR, and Université Joseph Fourier-Grenoble granted by the European Community (CEE):
Developmental trend of attentional processes: Electrophysiological and Behavioural Indexes.
- 1991-93 Triennial Italian-Canadian Trilateral Project between ISEF, IP-CNR, and School of Psychology of University of Ottawa:
Neuropsychophysiology of Attentional Processes.
- 1993 Annual Research Project of the Center for Neuroscience of University of California at Davis (Coordinator: Prof. Ron G. Mangun):
Neural Mechanisms of Visual Spatial Attention.

- 1994 Annual Research Project of the Center for Neuroscience of University of California at Davis (Coordinator: Prof. Michael S. Gazzaniga):
Brain Hemispheric Asymmetries in Visual Spatial Attention as revealed by Split-Brain Patients.
- 1995 Annual Research Project of the Center for Neuroscience of University of California at Davis (Coordinator: Prof. Ron G. Mangun):
Neural Mechanisms of Visual Selective Attention to Spatial and Non-Spatial Features.

HEADING OF RESEARCH PROJECTS ++++++

Heading of Intra-Mural Institutional National Projects

- 1994-1996 Triennial Project of the "Neural Networks and Artificial Life" Division of the Institute of Psychology of CNR:
"Electrocortical substrates of visual information processing".
- 1997-99 Biennial research project of the "Neural Networks and Artificial Life" Division of the Institute of Psychology of CNR:
"Electrophysiological Bases of Sensory and Cognitive Processing".
- 2000-2006 Triennial Project of the Institute of Neuroscience and Bioimaging of CNR:
"Electrocortical indexes of visual selective attention mechanisms".
- 2006-2010 Triennial Project of the Institute of Molecular Bioimaging and Physiology of CNR:
"Electrocortical indexes of human visuo-cognitive functions".
- 2010-2015 Triennial Project of the Institute of Molecular Bioimaging and Physiology of CNR:
"Neurophysiology of Human Visuo-Cognitive Functions".

Heading of Bilateral Special National Projects

- 1992--1998 Bilateral Research Project between the Institute of Psychology-CNR and the Higher Institute for Physical Education (ISEF):
"Motor behavior and sport performance".
- 1998-2000 Annual Bilateral Special Project between the Institute of Psychology-CNR and the Department of Psychology of University of Trieste:
Investigation of neural mechanisms for Selective Attention and Visual and Linguistic Information Processing by mapping of Event-related potentials of the Brain.
- 2000-2002 Triennial Bilateral Project between the Institute of Neuroscience and Bioimaging of CNR and the Department of Psychology of University of Trieste:
"Neuroscientific Investigations on the Relationships of Mind and Brain".

- 2003-2006 Triennial Bilateral Project between the Institute of Neuroscience and Bioimaging of CNR and the Department of Psychology of University of Milan-Bicocca:
“Neuroscientific Investigations on the Relationships of Mind and Brain”.
- 2013-2016 Triennial Sub-Project *“Contribution to the design of services for the cognitive assessment and monitoring of aged people”* of the *“CARE-G: A platform of services for health care and life quality of the aged citizen”* Main-project in the context of the *“Human Capital”* Agreement between the CNR and the Lombardy Region.
- 2013-2016 Triennial Sub-Project *“Analysis of EEG Signals”* of the *“RIPRENDO@home”* (Post-ictus Recovery: A Platform for an Oriented Neuromotor Rehabilitation at Home) Main-project in the context of the *“Human Capital”* Agreement between the CNR and the Lombardy Region.

Heading of International Special Projects

- 1982-84 Biennial Research Project at University of Leiden, The Netherlands:
Information Processing and Decision Making in detection and recognition of visual Figural information.
- 1994-1996 Triennial Italian-Canadian Bilateral Research Project:
Electrocortical Substrates of Attentional and Motor Processes.
- 1996-97 Biennial Italian-German Bilateral Project between the IP-CNR and the Max-Plank Institute fur Neuropsychologische, Germany:
Neural Circuitry of Prefrontal Cortex involved in the Suppression of Sensory-motor Processing of Unattended Information as Indexed by ERPs and fMRI.
- 1997-99 Triennial Italian-Canadian Bilateral Research Project:
Brain Prefrontal Mechanisms in Visual Selective Attention and Short Term Memory as investigated by Event-related Potentials of the Brain.
- 1999-2001 Triennial Italian-Canadian Bilateral Research Project:
Neural Bases of Visual Attention to Space and Object.

Heading of Experimental Laboratories

- 1996-2000 Laboratory of Cognitive Electrophysiology of the Institute of Psychology of CNR, Rome.
- 2000--2006 Electro-Functional Brain Imaging unit (EFBIu) of the Institute of Neuroscience and Bioimaging of CNR, Segrate-Milan.
- 2000-2006 Electro-Functional Brain Imaging unit (EFBIu) del Cognitive Neuroscience Center del San Raffaele Hospital (HSR), Segrate-Milano.
- 2006--2011 Electro-Functional Brain Imaging unit (EFBIu) of the Institute of Molecular Bioimaging and Physiology of CNR, Segrate-Milan.
- 2012-present Cognitive ElectroFunctional Imaging Lab of the Institute of Molecular Bioimaging and Physiology of CNR, Segrate-Milan.

HONORS

Counseling for Scientific Activities

- 1990-1991 Elected President of the Italian Branch of the “*International Association of Empirical Aesthetics*” (IAEA).
- 1992-95 Elected Member of the Scientific Consulting Board of the Institute of Psychology of CNR for the 92-95 quadriennium.
- 1996-99 Elected Member of the Scientific Consulting Board of the Institute of Psychology of CNR for the 96-99 quadriennium.
- 1996-99 Elected General Secretary of the Scientific Consulting Board of the Institute of Psychology of CNR for the 96-99 quadriennium.
- 1996 Member of the Organizational Board for the Workshop on “Visuo-spatial attention in split-brain and normal control”, Institute of Cognitive Neuroscience at the *Max-Planck Institut für Neuropsychologische forschung* di Lipsia.
- 1999 Member of Reviewers Board for the selection of Abstracts submitted to the European Conference on Visual Perception (ECVP) 1999, Trieste, Italy.
- 2000-02 Elected Member of the Scientific Consulting Board of the Institute of Psychology of CNR for the 2000-02 triennium.
- 2000-02 Re-elected General Secretary of the Scientific Consulting Board of the Institute of Psychology of CNR for the 2000-02 triennium.
- 2007 Nominated Member of the Experts Board of Trento Autonomous Province for the evaluation of Research Projects submitted to the Contest Call for spurring Research Excellence in the Province Territory for the 2007-2008 Academic Year.
- 2007 Member of the Referee Board for the selection of Abstracts submitted for presentation to the Organization for Human Brain Mapping (OHBM) 13th Annual Meeting, June 10-14, 2007, Chicago, Illinois, USA.
- 2009-15 Elected Member of the Scientific Consulting Board of the Institute of Bioimaging and Molecular Physiology of CNR.
- 2012 Member of the Editorial Board of the *International Journal of Brain and Cognitive Sciences*.
- 2012 Editor-in-Chief of the *International Journal of Brain and Cognitive Sciences*.
- 2015 Editor of the “*Psychology and Behavioral International Journal*”
- 2016-- Elected Member of the Scientific Consulting Board of the Institute of Bioimaging and Molecular Physiology of CNR.

Organizational Activities for Scientific Meeting

- 2002 Member of the Organizational Board for the First International Meeting of Bioeducational Sciences on “*Mind, Learning and Knowledge in Educational Contexts*”.
- 2005 Organizer and Chairman of Symposium #4 , “*ERP studies on language and conceptual knowledge*” of the 45th Annual Meeting of the “*Society for Psychophysiological Research*”, Lisboa, Portugal, September 21-24, 2005.
- 2006 Local Organizer of the International Workshop “*Advanced Neuro Technologies*”

Applications: Combining and applications of ERPs, MEG, PET, fMRI, & TMS Methods", September 21-22, 2006, IBFM-CNR, LITA Building, Segrate, Milan, Italy.

- 2017 Workshop on "Cognitive Sciences, Cognitive Neurosciences and Design" of the Experientia s.r.l., IBFM CNR and Banca Intesa-SanPaolo R & D Division, Torino, Feb 2, 2017.

Scientific Counseling for Scientific Journals

- 2011 Member of the Editorial Board of the *International Journal of Brain and Cognitive Sciences*.
- 2012 Editor in Chief of the *International Journal of Brain and Cognitive Sciences*.
- 2012 Member of Editorial Board of the "International Neuropsychiatric Disease Journal".
- 2012 Member of Editorial Board of the "International Scholarly Research Network (ISRN) Physiology".
- 2012 Member of Editorial Board of the "Physiology Journal".
- 2015 Editor of "Psychology and Behavioral International Journal".
- 2015 Honorable Editor of "Psychology and Clinical Psychiatry Journal"
- 2016 Member of Editorial Board of the "Journal of Neurology and Neuroscience".
- 2016-20 Elected Member of the Scientific Consulting Board of the Institute of Molecular Bioimaging and Physiology (IBFM) of CNR for the 2016-2020 quadriennium.
- 2017 Editor in Chief of the *Journal of Psychology and Brain Studies*.

Scientific Journal Reviewer

International referee for the following Scientific Journals:

Perception, Electroencephalography and Clinical Neurophysiology, European Journal of Applied Physiology, International Journal of Psychophysiology, Journal of Cognitive Neuroscience, Cognitive Neuropsychology, International Journal of Sport Psychology, Quarterly Journal of Experimental Psychology, Biological Psychology, Clinical Neurophysiology, Neuropsychologia, Cognitive Brain Research, International Journal of Brain and Cognitive Sciences, ISRN Physiology, Frontiers in Emotion, British J Education, Society & Behavioural Science-Science Domain International, Journal of Applied Physiology, Books Reviewing for Scientific and Academic Publisher (SAPub), PsychoNeuroendocrinology, Psychology and Aging, Perceptual and Motor Skills, Research Reports Nature.

Competitive-and-Contest-Based Extra-Mural Awarded Research Grants

- 1993 Grant from the Medical and Biological Sciences Board of Italian CNR for the special Project:
Brain Mechanisms for Spatial and Non-spatial Visual Information.
- 1994 Grant from the Medical and Biological Sciences Board of Italian CNR for the special Project:
Electrocortical Substrates of Attentional and Motor Processing.

- 1995 Renewal of the Grant from the Medical and Biological Sciences Board of Italian CNR for the special Project:
Electrocortical Substrates of Attentional and Motor Processing.
- 1997 Grant from the Medical and Biological Sciences Board of Italian CNR for the special Project:
Brain Prefrontal Mechanisms in Visual Selective Attention and Short Term Memory as investigated by Event-related Potentials of the Brain.
- 1998 Renewal of the Grant from the Medical and Biological Sciences Board of Italian CNR for the II° year of the special Project:
Brain Prefrontal Mechanisms in Visual Selective Attention and Short Term Memory as investigated by Event-related Potentials of the Brain.
- 1999 Grant from the Medical and Biological Sciences Board of Italian CNR for the special Project:
Neural Bases of Selective Attention for Object and Space.

Scientific Awards

- 1991 Scholarship from the James McDonnell Foundation for the Summer Institute in “Cognitive Neuroscience” of the Medical School of Dartmouth College, Hanover, USA. July 1 – July 12, 1991.
- 1995 Scholarship from the Italian Institute of Italian Philosophical Studies for the Contribution to the International Congress on “Leonardo Bianchi and Frontal Lobes”, Palazzo Serra di Cassano, Napoli. Award delivered on May 6, 1995
- 1996 Scholarship of NATO for the Advanced Study Institute on “The role of the Human Corpus Callosum in Sensory Motor Integration: Anatomy, Physiology and Behavior; Individual Differences and Clinical Applications”, Il Ciocco, Castelvecchio Pascoli, Lucca, Italy, September 1-10, 1996.

National and International Praising of Scientific Publications

- 2007 Scholarship received by Marzia Del Zotto, from the Organizing Committee of the 39th Annual General Meeting of EBBS, European Brain and Behavioral Society, for the research paper, presented by her as a younger than 35-years first-author, judged among the three best works received:
Del Zotto M., Proverbio A.M., Zani A., Mangun G.R. (2007). *ERP indices of the size of attentional focus in spatial orienting*. Oral presentation to the 39th Annual General Meeting of EBBS, held in Trieste, Italy, on September 15-19, 2007.
- 2008 Inclusion in the List of “Recommended” research papers by the “The F1000 Biology Evaluation System” of the paper by “Proverbio, AM, Adorni, R, Zani, A (2008). *The left fusiform area is affected by written frequency of words*. *Neuropsychologia*, 46 (9): 2292-2299”.
- 2008 Inclusion of the Paper by “Proverbio AM, Zani A, Adorni R. (2008). *Neural markers*

of a greater female responsiveness to social stimuli. *BMC Neurosci*, 2008; 9 (1): 56" by the "BMC Neuroscience" Journal among the 25 outstanding papers, out of 700 published in one month, to be presented to the USA National Media.

- 2009-10 Inclusion of our study "When neurons do not mirror the agent's intentions: sex differences in neural coding of goal-directed actions" by Proverbio AM, Riva F, Zani A. (2010). *Neuropsychologia*. 2010 Apr;48(5):1454-63. Epub 2010 Feb 1" in the "CNR.IT Highlights 2009-2010", a "collection of choice" of CNR best production for the cited biennium.
- 2012 Evaluation of the abstract of the paper by "Manfredi M, Adorni R, Zani A, Proverbio AM, *The Effects of Musical Expertise On Reading Skills: An ERP Study*" by a Scientific Committee as the best work presented by a young researcher under 35 years at the "XXth National Congress of the Italian Society for Psychophysiology (SIPF)" held in Venice on November 22-24, 2012. Mirella Manfredi, a PhD Student of the University of Milan-Bicocca, first-authoring the work, has been officially awarded the announced prize of 500 euros and the membership to SIPF for 2013 on the reported date.
- 2013 Obtaining of the "Excellent", highest positive ranking by the Italian "Ministry of Education, University and Scientific Research" (MIUR) as a result of the evaluation carried out by the ANVUR National Board on the quality of the scientific research pursued from 2004 to 2010. This highest positive ranking concerned any of the six (6) publications presented by Dr. Alberto Zani.
- 2015 Inclusion of the news of our findings of improving effects of touching music on memory for faces, digitally "in print" in Open Access in *Scientific Reports Nature* 2015 and reported in a release of the University of MI-Bicocca Press Agency, in "Research Italy", the website of MIUR (i.e., the Italian Ministry for Scientific Research and Education). The news in the aforementioned website can be seen at the following link: [Touching Background Music Improves Memory](#).

Heading of Extra-Mural Research Laboratories

- 1982-1984 Electrophysiology Laboratory, Faculties of Physiology and Psychology, University of Leiden, The Netherlands.
- 1984-86 Laboratory of Cognitive Psychophysiology of ISEF.
- 1992-95 Laboratory of Cognitive Psychophysiology of ISEF.
- 2000-2006 *Electro-Functional Brain Imaging unit (EFBIu)* of the Cognitive Neuroscience Center of Saint Raphael Hospital (HSR), Milan, Italy.

Participation in Research Programs of Extra-Mural Research Centers

- 1999-2000 BRAIN (*Basic Research And Integrative Neuroscience*) Inter-Departmental Center of University of Trieste.
- 1999-2000 CRANI (*Regional Center for Integrated Anatomy*) Inter-University Center of Italian Friuli-Venezia Giulia Region.

- 1999-2000 Center for Functional Neuroimaging, Cattinara Hospital, University
Trieste.
- 2000-2006 Center for Cognitive Neuroscience, HSR (San Raffaele Hospital), Milan.
- 2002-2006 Excellence Center "*Cognitive and Clinical Neuroimaging Laboratory*" of the
University of Milan-Bicocca, Milan, Italy, directed by Prof. Ferruccio Fazio.

Invited lectures

- 1987 Invited lecture on "*Psychophysiological Techniques in the Study of Psycho-Motor Functions of deaf people*" in the "*First Training Stage for Educators of the Olympic Centers on ludic and sport activities for deaf people*", Ibleo Institute for Deaf People, Ragusa, Italy, 1987.
- 1989 Discussant at the Workshop on "*Psychology of Sport: Research, Training, and Professional Activities*" of the National Congress on "*Psychology of Sport and Motor Activities: Psychological Adaptation in Sport: Research and Intervention*". Florence, Italy, 29-30 April.
- 1996 Lecture on "*How attention modulates visual processing: An electrophysiological approach*" Workshop on "*Visuo-spatial attention in split-brain and normal control*", Institute of Cognitive Neuroscience at the *Max-Planck Institut für Neuropsychologische forschung*, Leipzig, Germany, Tuesday, May 7th, 1996.
- 1996 Discussant at the *Summer Institute NATO Advanced Studies* on the role of the human corpus callosum in sensory motor integration. Invited lecture "*Interhemispheric transfer of visuo-motor inputs in a split-brain patient: Electrophysiological and behavioral indexes*", IL CIOCCO, Castelvecchio Pascoli, Lucca, Italy, September 1-10, 1996.
- 2000 Invited talk on "*Spatio-Temporal Mapping of Brain Attentional Mechanisms*" by the Cognitive Neuroscience Group, H.S. Raffaele and Institute of Neuroscience and Bioimaging, National Research Council, Milan, Italy. Chairperson: Dr. Daniela Perani.
- 2002 Invited lecture on "*Mind and Brain in developmental and educational processes*" in the First International Meeting of Bioeducational Sciences on "*Mind, Learning and Knowledge in Educational Contexts*", Naples, Italy, October 24-25, 2002.
- 2003 Invited Lecture on "*Electrical and Magnetic Readings of Human Mind and Brain Functions*" in the Workshop on "*Mind and Brain in Cognitive Neuroscience*" organized by the *Mind and Brain Institute* of The Ecole Polytechnique Federal Lausanne (EPFL) sul tema, Lausanne, Swiss, September 9th, 2003.
- 2005 Invited lecture on "*ERP indexes of sensory and conceptual processing of living and not-living entities at distinct occipital and temporal brain regions*" in the Symposium "*ERP studies on language and conceptual knowledge*" of the 45th Annual Meeting of the Society for Psychophysiological Research, September 21-24, Lisbon, Portugal.
- 2010 Invited lecture on "*Cerebral and Behavioural mechanisms of Visuo-Spatial Attention and Nicotinic Stimulation in Humans*" for "*The Pharmacology Fridays*" of the Institute of Neuroscience of CNR, given on Friday, November 5th, 2010.
- 2010 Invited Lecture on "*Electrofunctional Imaging of Brain Activations during Endogenous and Exogenous Orienting of Spatial Attention*" in the Symposium on "*Attention and States of Consciousness*", XVIII SIPF (Italian Society of Psychophysiology) Congress, Palermo, Italy, November 24th-26th.

- 2011 Invited Lecture on “*Mind, Brain and Cognition in the Light of Developmental and Educational Processes*” presented in the Multi-Speakers, one-day Seminar on “*Evolutional Processes of the Human Sapientization*” held at the University of Urbino, Italy, on March 9th, 2011.
- 2012 Invited lecture on “*Time-Related Electrical Imaging of Brain Functionality Underpinning Endogenous and Exogenous Orienting of Visuospatial Attention*” in the Neuroscience Session of “NAM. 1st Neuroscience and Anthropology Meeting”, Siena, Italy, November 22-23.
- 2017 Invited Lecture on “*EEG and ERPs in Cognitive Neurosciences*” presented in the Multi-Speakers, one-day Workshop on “*Cognitive Sciences, Cognitive Neurosciences and Design*” held at the Intesa-SanPaolo Skyscraper, Turin, Italy, on February, 2017.
- 2017 Invited Lecture on “*Electrophysiological and behavioral indexes of conflict processing during voluntary orienting of attention and alerting*” presented at the NeuroMI 2017 Annual Meeting, held at the UniMI-Bicocca, Milan, Italy, on September 13, 2017.
- 2017 Invited Lecture on “*Cognitive Electrophysiology. The research on the mind based on the Bioelectrical activity of the brain*” held at the ARM3-CNR Bicocca in the context of the “*Knowledge and KnowHows at Bicocca CNR Program*” on Nov 29, 2017.

CHAIRMANSHIP OF MEETING SESSIONS

- 2005 Co-Chairman, together with Prof. Javier Sainz, of the Symposium #4 “ERP studies on Language and Conceptual Knowledge”, held on Thursday, September 22, of the 45th Annual Meeting of the Society for Psychophysiological Research”, held in Lisbon, Portugal, on September 21-24, 2005.
- 2015 Co-Chairman, together with Prof. Maria Teresa Guasti, of the Morning Session “The Cognitive Neuroscience of Music” of the International Workshop “*Mind and Brain in Music*” of the University of Milan-Bicocca, organized by the Profs. Maria Teresa Guasti and Alice Mado Proverbio, held in Milan, Italy, on Oct 30, 2015.

ACADEMIC HONORS

- 2017 Winning of the contest called by the Motor Sciences Medical School of the State University of Milan (Italy) for an Assistant Professor of *Psychology*.
- 2016 Winning of the national contest reserved to contest-based academically-licensed candidates by MIUR called by Saint Raphael Hospital (HSR) Faculty of Psychology for a **Full-Professorship** in *General Psychology*.
- 2014-2020 Enlisted, after the winning of a national contest, in the Italian National List of **Full Professors** of “*General Psychology, Psychobiology and Psychometrics*”, 11/E1 disciplines, edited by the Italian Ministry for Education, University and Scientific Research (MIUR) for the indicated quinquennium.

- 2014-2020 Enlisted, after the winning of a national contest, in the Italian National List of **Associate Professors** of "*General Psychology, Psychobiology and Psychometrics*", 11/E1 disciplines, edited by the Italian Ministry for Education, University and Scientific Research **MIUR**) for the indicated quinquennium.
- 2001-2006 Enlisted, after the winning of a national contest, in the Italian National List of **Associate Professors** of *Psychobiology and Physiological Psychology*, M-PSI/02 disciplines, edited by the Italian Ministry for University and Scientific Research (MURST) for the indicated quinquennium.

Research Stages Abroad

- 1982 Six months stage at the Institute of Physiology of University of Leiden, The Netherlands.
- 1982-84 2 years stage at the Institute of Physiology of University of Leiden, The Netherlands.
- 1991 One month Stage at the School of Psychology of University of Ottawa, Canada.
- 1993 One month Stage at the Center for Neuroscience of University of California at Davis, USA.
- 1993 Three months (June-August) Stage at the Center for Neuroscience of University of California at Davis, USA.
- 1994 Six months Stage at the Center for Neuroscience of University of California at Davis, USA.
- 1995 One Year Stage at the Center for Neuroscience of University of California at Davis, USA.
- 1996 Visiting Researcher at the Max-Planck Institut für Neuropsychologische, Center Center for Cognitive Neuroscience, Leipzig, Germany.

Scientific Memberships

- 1985–1989 "International Organization of Psychophysiology" (IOP).
- 1987-1990 "Italian Society of Psychology" (SIPs).
- 1988-91 "International Association of Empirical Aesthetics (IAEA); 1990-1991 President for the Italian Branch of the Association
- 1990-2000 National Register of Italian Psychologists
- 1990-94 European Society for Cognitive Psychology
- 1991-1993 European Neuroscience Association
- 1994 Cognitive Neuroscience Society (CNS)
- 1994 Society for Neuroscience (SfN)
- 1996-2007 Italian Society for Psychophysiology (SIPF)
- 2000 ISBET: International Society for Brain Electromagnetic Topography

CollaborationsNational

Department of Psychology
University of Trieste

Department of Psychology
University Bicocca-Milano

Department of Physiology and Pathology
University of Trieste

Institute of Psychology
National Council of Research

International

Dartmouth Medical School
Program in Cognitive Neuroscience
New Hampshire, USA

School of Psychology
University of Ottawa
Ottawa, Canada

Université Joseph Fourier,
Grenoble, France

Max-Planck-Institut für Neuropsychologische
Center for Cognitive Neuroscience
Leipzig, Germany

Academic activities *****

Full Courses for Undergraduate Students

- 1984-85 Adjunct Professor of "*Psychology*" at ISEF, the National Sport Academy, Rome.
- 1985-86 Adjunct Professor of "*Psychology*" at ISEF, the National Sport Academy, Rome.
- 1986-87 Adjunct Professor of "*Psychology of Perception*" at the Faculty of Arts and Philosophy, University of Udine.
- 1989-90 Adjunct Professor of "*Psychology of Art*" at the Faculty of Arts and Philosophy, University of Udine.

- 1990-91 Adjunct Professor of "*Psychology of Art*" at the Faculty of Arts and Philosophy, University of Udine.
- 1994-95 Professor in Charge of "*Psychology*" at ISEF, the National Sport Academy, Rome.
- 1995-96 Professor in Charge of "*Psychology*" at ISEF, the National Sport Academy, Rome.
- 1996-97 Adjunct professor of "*Physiological Psychology*" at the Faculty of Psychology, University of Trieste.
- 1997-98 Adjunct Professor of "*Physiological Psychology*" at the Faculty of Psychology, University of Trieste.
- 1998-99 Adjunct Professor of "*Physiological Psychology*" at the Faculty of Psychology, University of Trieste.
- 1998-99 Adjunct Professor of "*Psychophysiology: Advanced course*" at the Faculty of Psychology, University of Trieste.
- 1999-2000 Adjunct Professor of "*Physiological Psychology*" at the Faculty of Psychology, University of Trieste.
- 2000-01 Adjunct Professor of "*Physiological Psychology*" at the Faculty of Psychology, University of Trieste.
- 2000-01 Adjunct Professor of "*Psychophysiology: Advanced course*" at the Faculty of Psychology, University of Trieste.
- 2006-07 Adjunct Professor of "*Sport Psychology*" in the undergraduate *Course of Psychological Sciences and Techniques* of the Faculty of Psychology, University of Milan-Bicocca.
- 2006-2007 Adjunct Professor of "*General Psychology*" in the undergraduate *Course of Medical Radiological Techniques and Radiology* of the Medical School, University of Western Piedmont "Amedeo Avogadro" at Novara.
- 2006-2007 Adjunct Professor of "*General Psychology*" in the undergraduate *Course of "Nursing"* of the Medical School, University of Western Piedmont "Amedeo Avogadro" (Teleconference lessons for the conjoined urban sites of Alba, Biella, Novara, Verbania, and Vercelli).
- 2006-2007 Adjunct Professor of "*Neuroanatomy*" in the undergraduate *Course of Physiotherapy* of the Medical School of University of Brescia at Mantova.
- 2008-2009 Adjunct Professor of "*Sport Psychology*" in the undergraduate *Course of Psychological Sciences and Techniques* of the Faculty of Psychology, University of Milan-Bicocca.
- 2007-2008 Adjunct Professor of "*Cognitive Psychology*" in the undergraduate *Decree Course of Digital Communication* at the Faculty of Mathematical, Physical and Natural Sciences, State University of Milan.
- 2007-2008 Adjunct Professor of "*Neuroanatomy*" in the undergraduate *Course of Physiotherapy* of the Medical School of University of Brescia at Mantova.
- 2009-2010 Adjunct Professor of "*Sport Psychology*" in the undergraduate *Course of Psychological Sciences and Techniques* of the Faculty of Psychology, University of Milan-Bicocca.
- 2017-2018 Assistant Professor of "*Psychology*" at the Motor Sciences Medical School of the State University of Milan, Milan, Italy.

Postgraduate and Doctoral Courses

- 1984-85 Adjunct professor of *Psychology* in the Biennial Post-graduate School of ISEF, the National Sport Academy, Rome, on “*Technical and Practical aspects of volleyball coaching*”.
- 1985-86 Adjunct professor of *Psychology* in the Biennial Post-graduate School of ISEF, the National Sport Academy, Rome, on “*Technical and Practical aspects of volleyball coaching*”.
- 1987 Adjunct Professor of *Psychology* in the First Stage on “*Training for Sport Coaches of Olympic Centers for deaf people*”, Ragusa, Sicily, Italy.
- 1995-96 Adjunct professor of *Psychology* in the Biennial Post-graduate School of ISEF, the National Sport Academy, Rome, on “*Physical Education and Sport for differently able People*”.
- 1996-97 Adjunct professor of *Psychology* in the Biennial Post-graduate School of ISEF, the National Sport Academy, Rome, on “*Physical Education and Sport for differently able People*”.
- 1999-2000 Member of the Steering Committee of the PhD Program in Neuroscience of University of Trieste: XV Cycle.
- 2000-2001 Member of the Steering Committee of the PhD Program in Neuroscience of University of Trieste: XVI Cycle.
- 2002-2011 Adjunct professor of *Cognitive Psychophysiology* for the Post-Graduate Specialization Course in Cognitive-Behavioural Therapy of ASIPSE School at Milan.

Teaching Cooperations in Academic Courses

- 1979-86 Teaching Assistant of *Physiological Psychology* at the Faculty of Psychology of University “La Sapienza” of Rome.
- 1983-84 Teaching Assistant of *Psychology* at the National Institute for Physical Education (ISEF) of Rome.
- 1986-94 Teaching Assistant of *Psychology* at the National Institute for Physical Education (ISEF) of Rome.

Tutoring activities

- Promotor and/or Discussant of many Dissertations and Essays defended by students over the years.
- Tutoring of many undergraduate trainees and PhD students.

LINGUISTIC COMPETENCE

- Fluent in spoken and written Anglo-American language;
- Work Knowledge of French and Spanish.

Translation and/or Editing of Books and Sections of Books:

- * Gould, S.J. (1985). *Intelligenza e Pregiudizio: Le pretese scientifiche del razzismo* (The mismeasure of

man). Roma: Editori Riuniti.

* Packard, V. (1985). *I Bambini in Pericolo* (Our endangered children). Roma: Editori Riuniti.

* Harre', R., Lamb, R., Mecacci, L. (Eds.) (1986). *Psicologia. Dizionario Enciclopedico* (All Neuropsychophysiological Entries of "Harre', R., Lamb, R. (Eds.) *The Encyclopedic Dictionary of Psychology*). Bari: Laterza.

* Gould, S.J. (2016) (2nd Revised Edition). *Intelligenza e Pregiudizio: Contro i fondamenti scientifici del razzismo* (Intelligence and Social Bias. Against the scientific foundings of racism). Milano: Il Saggiatore.

PUBLICATIONS

BOOKS

In Italian

Mecacci L. & ZANI A. 1982

Teorie del Cervello. Dall'Ottocento ad oggi [*Theories of the Brain. From the Nineteenth Century up Today*]. Torino: Loescher Editore.

Proverbio A.M. & ZANI A. (Eds.) 2000

Psicofisiologia Cognitiva. I substrati neuro-funzionali della mente umana [*Cognitive Psychophysiology. The neuro-functional substrates of human mind*]. Carocci Editore, Roma. Foreword by Prof. Michael S. Gazzaniga.

ZANI A. & Proverbio A. M. (Eds.) 2003

Elettrofisiologia della mente [*Electrophysiology of Mind*]. Carocci Editore, Roma.

Proverbio A. M. & ZANI A. (Eds.) 2013

Metodi Strumentali nelle neuroscienze cognitive. EEG ed ERP [*Instrumental Methods in Cognitive Neurosciences. EEG and ERP*]. Aracne Editrice, Roma.

In English

ZANI A. and Proverbio, A.M. (Eds.) 2003.

The Cognitive Electrophysiology of Mind and Brain. Academic Press, New York. Foreword by Prof. Michael I. Posner.

Editing of Foreign Books Translated in Italian

Robert, J. M., 1984 (Italian Translation Edited by A. Zani of *Comprendre Notre Cerveaux* by Robert Jacques-Michel. Editions du Seuil [Science Ouvert], Paris 1982) Come funziona il nostro cervello [*How our Brain Works*]. Bari: Edizioni Dedalo.

Purves D. et al., 2009 (Italian Translation Edited by A. Zani) Neuroscienze Cognitive (*Cognitive Neurosciences*). Bologna: Zanichelli Editore.

Gazzaniga M.S., Ivry R. B., Mangun G. R., 2015 (2nd Italian Edition based on the 4th American Edition; A. Zani & Alice Mado Proverbio Eds.) Neuroscienze Cognitive (*Cognitive Neurosciences*). Bologna: Zanichelli Editore.

CONTRIBUTIONS TO BOOKS

In Italian-language

ZANI, A. 1982

L'Attività Elettrica Cerebrale [*Brain Electrical Activity*]

In L. Mecacci (a cura di, Ed. by), Tecniche Psicofisiologiche [*Psychophysiological Techniques*] (pp. 31-51). Bologna: Zanichelli.

ZANI, A., & Zoccolotti, P. 1982

Il Sistema Nervoso Autonomo [*The Autonomic Nervous System*]

In L. Mecacci (a cura di, Eds.), Tecniche Psicofisiologiche [*Psychophysiological Techniques*] (pp. 61-79). Bologna: Zanichelli.

ZANI, A. 1983

Turni di lavoro [*Work Shifts*]

In A. Ferraris & A. Oliverio, Ritmi Biologici [*Biological Rhythms*] (pp. 118-123). Roma: Editori Riuniti.

Rossi, B., ZANI, A., & Pesce, C. 1991

Correlati psicofisiologici della prestazione sportiva [*Psychophysiological Correlates of Sport Performance*].

In G. Gorla, F. Pigozzi, & S. Prece (a cura di, Eds.), ISEF. Un quinquennio di ricerca scientifica [*ISEF. A quinquennium of Scientific Research*]. (pp. 487-496). Roma: ISEF.

Rossi, B., ZANI, A., Pesce, C., & Guadagni, S. 1991

Asimmetria emisferica e prestazione sportiva [*Hemispheric Asymmetries and Sport Performance*].

In G. Gorla, F. Pigozzi, & S. Prece (a cura di, Eds.), ISEF. Un quinquennio di ricerca scientifica [*ISEF. A quinquennium of Scientific Research*].(pp. 497-505). Roma: ISEF.

Rossi, B., ZANI, A. 1991

Studio cronometrico sulle latenze delle componenti endogene dei potenziali correlati ad eventi e dei tempi di reazione in tiratori a volo della squadra nazionale italiana [*A chronometric study on*

the latency of the endogenous components of event-related potentials of the brain and reaction times in clay-pigeon shooters of the Italian National Team].

In G. Gorla, F. Pigozzi, & S. Prece (a cura di, Eds.), ISEF. Un quinquennio di ricerca scientifica [ISEF. *A quinquennium of Scientific Research*]. (pp. 506-512). Roma: ISEF.

Rossi, B., ZANI, A., Pesce, C., & Della Pozza, U. (1991). Correlati psicofisiologici dei processi di attenzione sostenuta in età evolutiva [*Psychophysiological Correlates of Sustained Attention and Development*].

In G. Gorla, F. Pigozzi, & S. Prece (a cura di, Eds.), ISEF. Un quinquennio di ricerca scientifica [ISEF. *A quinquennium of Scientific Research*]. (pp. 513-522). Roma: ISEF.

ZANI, A. 1991

Ciclo mestruale, prestazione e psicofisiologia dei processi di elaborazione dell'informazione [*Menstrual Cycle, Performance and Psychophysiological Correlates of Information Processing*].

In A. Carbone e D. Luparelli (a cura di, Eds.), *Psicologia dello Sport: Ricerca, formazione ed intervento* [*Sport Psychology: Research, Training, and Practice*] (pp. 105-120). Firenze: Ponte alle Grazie Editore.

ZANI A. 2002

Mente e Cervello alla luce del processo evolutivo ed educativo [*Mind and Brain and developmental and educational processes*]

In E. Frauenfelder, F. Santoianni (a c. di/Eds.), *Le Scienze Bioeducative. Prospettive di Ricerca*. [*Bioeducational Sciences. Research Perspectives*] (pp. 83-106). Liquori Editore, Napoli.

In English

Mecacci, L., Misiti, R., & ZANI, A. 1984

The relevance of morningness-eveningness typology in Human Factor research: A Review. In H.W. Hendrick, & O. Brown, Jr (Eds.), *Human Factors in Organizational Designs and Management* (pp. 503-509). Amsterdam: Elsevier.

Mastandrea, S., ZANI, A., Giuliani, M.V. & Bove, G. 1992

Designers' and users' evaluation of industrial design objects.

In L. Ya. Dorfman, D.A. Leontiev, V.M. Petrov & V.A. Sozinov (Eds.), *Emotions and Art* (pp. 223-240). Perm (USSR): Perm Institute for Arts and Culture.

Proverbio A.M., Lilli S., Semenza C. & ZANI A. 1997

Brain activation during lexical retrieval

In J. Carey & L. Ariniello (Eds.) *Society for Neuroscience Press Book, Lay Language Summaries: 27th Annual Meeting* (pp. 557-558), Part II, 16. Society for Neuroscience, New Orleans.

Zani, A. & Proverbio, A.M. (2002).

ERP indicators of a left-sided hemispheric asymmetry in prefrontal gating of visual irrelevant information in healthy humans.

In J. Carey & L. Ariniello (Eds.). *Society for Neuroscience Press Book - Lay Language Summaries: 32nd Annual Meeting* (pp. 145-147). Washington, D.C.: Society for Neuroscience.

Proverbio A.M. & ZANI A. (2003).
Interhemispheric transfer of visuo-motor inputs in a split-brain patient: Electrophysiological and behavioral indexes.
In E. Zaidel, M. Iacoboni (Eds.), *The Parallel Brain: The Cognitive Neuroscience of the Corpus Callosum* (pp. 296-299). The MIT Press, Cambridge, Massachusetts.

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Mind and Brain in developmental and educational processes.
In Elisa Frauenfelder and Flavia Santoianni (Eds.), *Mind, Learning and Knowledge in Educational Contexts. Research Perspectives in Bioeducational Sciences*. Cambridge: Cambridge Scholars Press.

ZANI A., & Proverbio A.M. (2005).
The timing of attentional modulation of visual processing as indexed by ERPs,
In L. Itti, G. Rees, J. Tsotsos (eds.), *Neurobiology of attention* (pp. 496-501). Academic Press, San Diego.

ProverbioA.M., & ZANI A. (2005).
ERP studies of selective attention to non-spatial features,
In L. Itti, G. Rees, J. Tsotsos (eds), *Neurobiology of attention* (pp. 514-519). Academic Press, San Diego.

Proverbio AM, Zani A (2010)
Electromagnetic indices of language processing, In: Balconi M. (Ed. by) *Neuropsychology of Communication* (pp. 61-90). Springer-Verlag Italia: Milano.

Zani A (2013)
Evoked and Event-related potentials. In Runehov A. L. C, Oviedo L (eds). *Encyclopedia of Sciences and Religions* (pp. 787-792). Springer: New York.

PAPERS IN SCIENTIFIC JOURNALS

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JOURNALS WITH INTERNATIONAL REFEREES *****

Full-text peer-reviewed articles

Zani A. and Proverbio A.M. (2017). Endogenous Attention to Object Features modulates the ERP C1 component. *Cognitive Neuroscience*, doi.org/10.1080/17588928.2017.1381081

Orlandi A., Zani A., and Proverbio A.M. (2017). Dance expertise modulates visual sensitivity to complex biological movements. *Neuropsychologia*, 104, 168-181.

Zani A. and Proverbio A.M. (2017). How voluntary orienting of attention and alerting modulate costs of conflict processing. *Scientific Reports Nature* 7, 46701; doi: 10.1038/srep46701 (2017).

Proverbio A. M., Massetti G., Rizzi E, and **Zani A** (2016). Skilled musicians are not subject to the McGurk effect. *Scientific Reports Nature*, 6-30423.

Proverbio Alice Mado , La Mastra F., and **Zani A.** (2016). How does negative social bias affect memory for faces: an electrical neuroimaging study. *PLOS One*, 10.1371.

Proverbio A Mado, Nasi V Lozano, Arcari L Alessandra, F De Benedetto, M Guardamagna, M Gazzola, **A Zani** (2015).

The effect of background music on episodic memory and autonomic responses: listening to emotionally touching music enhances facial memory capacity.

Scientific Reports.Nature, 5, 15219.

Alice Mado Proverbio, Luigi Manfrin, Laura Arcari, Francesco De Benedetto, Martina Gazzola, Matteo Guardamagna, Valentina Lozano, **Alberto Zani** (2015).

Non-expert listeners show decreased heart rate and increased blood pressure (fear bradycardia) in response to atonal music.

Frontiers in Psychology. Auditory Cognitive Neuroscience, 6, 1646.

Alice Mado Proverbio, Veronica Gabaro, Andrea Orlandi, and **Alberto Zani**

Semantic brain areas are involved in gesture comprehension: an electrical neuroimaging study

Brain and Language, 147, 2015, 30 -40.

Alice Mado Proverbio, Lapo Attardo, Matteo Cozzi, **Alberto Zani**

The effect of musical practice on gesture/sound pairing

Frontiers in Psychology. Auditory Cognitive Neuroscience 2015 (Front. Psychol. 6:376. doi: 10.3389/fpsyg.2015.00376).

Zani A, Marsili G., Senerchia AP, Orlandi A, Citron FMM, Rizzi E & Proverbio AM

ERP signs of categorical and supra-categorical processing of visual information

Biological Psychology, 104, 2015, 90 -107.

Proverbio AM, Calbi M, Manfredi M & **Zani A**

Audio-visuomotor processing in the musician's brain: an ERP study on professional violinists and clarinetists

ScientificReports.Nature.com.2014.4:5866.

Proverbio AM, Calbi M, Manfredi M, **Zani A** (2014). Comprehending body language and mimics: An ERP and neuroimaging study on Italian actors and viewers. *Plos One* 9 (3), e91294.

Proverbio AM, Manfredi M, **Zani A**, Adorni R. (2013).

Musical Expertise affects neural bases of letter recognition. *Neuropsychologia*, 51, 549.

Canessa N, Alemanno F, Riva F, **Zani A**, Proverbio AM, Mannara N, Perani D, Cappa S (2012). [The Neural Bases of Social Intention Understanding: The Role of Interaction Goals.](#) *PLoS One*. 2012: *PLoS ONE* 7(7): e42347. doi:10.1371/journal.pone.0042347.

Zani A., Proverbio Alice Mado (2012). [Is that a belt or a snake? Object attentional selection affects the early stages of visual sensory processing.](#) *Behavioral and Brain Functions*, 8:6, doi:10.1186/1744-9081-8-6.

Proverbio AM, Crotti N, Manfredi M, Adorni R, Zani A. (2012). Who needs a referee? How incorrect basketball actions are automatically detected by basketball players' brain. *Scientific.Reports.Nature*, 2.

Proverbio AM, D'Aniello GE, Adorni R, **Zani A** (2011). When a photograph can be heard: Vision activates the auditory cortex within 110 ms. [www.Nature.com.Scientificreports](#), 1(54): srep00054.

Alice Mado Proverbio, Federica Riva, Laura Paganelli, Stefano F. Cappa, Nicola Canessa, Daniela Perani, **Alberto Zani** (2011). Neural Coding of Cooperative vs. Affective Human Interactions: 150 ms to Code the Action's Purpose. *PLOS One*, 6(7): e22026.

Proverbio AM, Riva F, Martin E, **Zani A.** (2010). [Neural markers of opposite-sex bias in face processing.](#) *Frontiers in Psychology*. 2010;1:169. Epub 2010 Oct 18.

Proverbio AM, Riva F, **Zani A.** (2010). [When neurons do not mirror the agent's intentions: sex differences in neural coding of goal-directed actions.](#) *Neuropsychologia*. 2010 Apr;48(5):1454-63. Epub 2010 Feb 1

Proverbio AM, Riva F, Martin E, **Zani A.** (2010). [Face coding is bilateral in the female brain.](#) *PLoS One*. 2010 Jun 21;5(6):e11242.

Proverbio AM, Riva F, **Zani A**, Martin E. (2010). [Is it a baby? Perceived age affects brain processing of faces differently in women and men.](#) *Journal of Cognitive Neuroscience*. 2011 Nov;23(11):3197-208. Epub 2011 May 10.

Proverbio AM, Del Zotto M, Zani A (2010). Electrical Neuroimaging evidence that spatial frequency-based selective attention affects V1 activity as early as 40-60 ms in humans. *BMC Neuroscience* 11 (1), 59.

Proverbio AM, Riva F, **Zani A.** (2009) Observation of Static Pictures of Dynamic Actions Enhances the Activity of Movement-Related Brain Areas. *PLoS ONE* 4(5): e5389. doi:10.1371/journal.pone.0005389.

Proverbio AM, Crotti N, **Zani A.**, Adorni R (2009). The role of left and right hemispheres in the comprehension of idiomatic language: an electrical neuroimaging study. *BMC Neuroscience*, Sep 15; 10:116.

Proverbio AM, Mariani S, **Zani A**, Adorni R (2009). How Are 'Barack Obama' and 'President Elect' Differentially Stored in the Brain? An ERP study on the Processing of Proper and Common Name Pairs, *PLOS ONE*, Sep 23;4(9):e7126.

Zani A, Proverbio AM (2009). Selective attention to spatial frequency gratings affects visual processing as early as 60 ms post-stimulus. *Perceptual and motor skills*, 109, 140-158.

Proverbio AM, Del Zotto M, Crotti N, **Zani A**. (2009) [A no-go related prefrontal negativity larger to irrelevant stimuli that are difficult to suppress.](#) *Behav Brain Funct.* Jun 25;5(1):25

Proverbio AM, Adorni R, **Zani A**. (2009) Inferring native language from brain electrical activity, *Biological Psychology*, Jan;80(1):52-63.

Proverbio AM, Adorni R, **Zani A**, Trestianu L. (2009) Sex differences in the brain response to affective scenes with or without humans. *Neuropsychologia*, 47(12), 2374-2388.

Proverbio AM, Zani A, Adorni R. (2008). Neural markers of a greater female responsiveness to social stimuli. *BMC Neuroscience*, 9 (1): 56 (Electronic Full Text)

Proverbio AM, Zani A, Adorni R. (2008). The left fusiform area is affected by written frequency of words. *Neuropsychologia*, 2008; 46 (9): 2292-2299.

Proverbio, Del Zotto, Zani A. (2007). Inter-individual differences in the polarity of early visual responses and attention effects. *Neuroscience Letters*, 419(2): 131-6.

Proverbio AM, Matarazzo S, Brignone V, Del Zotto M, and Zani A (2007). Processing valence and intensity of infants' expressions: The roles of expertise and sexual gender. *Scandinavian Journal of Psychology*, 48: 477-485.

Proverbio AM, Del Zotto M, Zani A. (2007). The emergence of semantic categorization in early visual processing: ERP indexes of animal vs. artifact recognition, *BMC Neuroscience*, 8:24 (Electronic Full Text).

Proverbio AM, Wiedemann F, Adorni R, Rossi V, Del Zotto M, Zani A (2007). Dissociating object familiarity from linguistic properties in mirror word reading. *Behavioral and brain functions*, 3: 43 (Electronic Full Text).

Proverbio AM, Adorni R, Zani A. (2007). The organization of multiple languages in polyglots: interference or independence? *Journal of Neurolinguistics*, 20(1), 25-49.

Proverbio AM, Brignone V, Matarazzo S, Del Zotto M, Zani A. (2006). Gender differences in hemispheric asymmetry for face processing. *BMC Neuroscience*, 8, 7(1), 44-52.

Proverbio, Del Zotto M., & Zani A. (2006). Greek language processing in naïve and skilled readers: Functional properties of the VWFA investigated with ERPs. *Cognitive Neuropsychology*, 21, 355-375.

- Proverbio AM, Brignone V, Matarazzo S, Del Zotto M, Zani A. (2006) Gender and parental status affect the visual cortical response to infant facial expression, *Neuropsychologia*, 44(14), 2987-99.
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- Proverbio A.M., Vecchi, L., & Zani A. (2004). From Orthography to Phonetics: ERP measures of grapheme-to-phoneme conversion mechanisms in reading. *Journal of Cognitive Neuroscience*, 16(2), 301-317.
- Proverbio A.M., Leoni, G., & Zani A. (2004). Language switching mechanisms in simultaneous interpreters: an ERP study. *Neuropsychologia*, 42(12), 1636-1656.
- Proverbio A.M., Burco F., Del Zotto M., & Zani A. (2004). Blue piglets? Electrophysiological evidence for the primacy of shape over color in object recognition. *Brain Research: Cognitive Brain Research*, 18 (3), 288-300.
- Proverbio A.M., & Zani A. (2003). Time course of brain activation during graphemic/phonologic processing in reading: An ERP study. *Brain and Language*, 87, 412-420.
- Proverbio, AM, Esposito, P. & Zani, A. (2002). Early involvement of temporal area in attentional selection of gratings orientation: an ERP study. *Brain Research: Cognitive Brain Research*, 13, 139-151.
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- Proverbio A.M., Lilli S., & Zani A. (1999). ERP mapping of brain activation during phonological processing. *Biomedizinische Technik*, 44, Supplement 2, pp.178-180.
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- Zani A., Avella C., Lilli S., Proverbio A.M. (1999). Scalp current density (SCD) mapping of cerebral activity during object and space selection in humans. *Biomedizinische Technik*, 44, Supplement 2, pp. 162-165.
- Proverbio A.M., Minniti A. & Zani A. (1998). Electrophysiological evidence of a perceptual precedence of global vs. local visual information. *Brain Research: Cognitive Brain Research*, 6, 321-334.

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- Proverbio, A. M., Zani, A., & Avella, C. (1997). Hemispheric asymmetries for spatial frequency discrimination in a selective attention task. *Brain and Cognition*, 34, 311-320.
- Zani, A. & Proverbio, A. M. (1997). Attention modulation of early components of ERPs to lateralized gratings in the upper and lower visual quadrants. *Journal of Psychophysiology*, 11, 21-32.
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