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**Education** Marco Ramazzotti is Researcher and Aggregate Professor of Ancient Near Eastern Art and Archaeology at the Department of Ancient World Studies of Sapienza University of Rome since 2007. In his scientific approaches, he combines historical-artistic researches on the ancient Near East cultural milieu and experimental analysis on the relations between Analytical Archaeology and Artificial Intelligence. Since 1989 he has participated in many archaeological excavations, topographic surveys, geophysical prospections and restoration field activities on the natural and anthropic landscapes in the Near East: in Palestine, in Turkey, in Libya, in Yemen, in Jordan, in Iraq and especially in Syria, where he has been field director of excavations and coordinated different interdisciplinary scientific teams for the planning and opening of the Ebla Archaeological Park. He is author and co-author of three scientific monographs and over sixty publications in scientific journals and books, but he is also editor of acts related to national and international congresses and workshops. 1996 Master degree in Ancient Near Eastern Art and Archaeology 110/110 cum Laude (with honors). Thesis title: La Bassa Mesopotamia come laboratorio storico. Le Reti Neurali Artificiali come strumento di ausilio alla ricerca archeologica territoriale. 2002 PHD in Ancient Near Eastern Art and Archaeology with special honours for the new epistemological and methodological approach to the Southern Mesopotamian Urban Revolution. Thesis title: Il Processo di urbanizzazione in Mesopotamia dalla regione di Ur alla valle del Diyala: analisi del territorio e dinamiche complesse dei sistemi insediamentali. 2005 Specialization School in Ancient Near Eastern Art and Archaeology 70/70 cum Laude (with honors). Thesis title: Archeologia e Semiotica. Codici, linguaggi e modelli. Current position 2007-2015 Researcher and Aggr. Prof. of Ancient Near Eastern Art and Archaeology (SSD: LOR/05); 2010-2015 Director of the Analytical Archaeology and Artificial Adaptive Systems Lab (LAA&SAA). 2014-2015 Field Director of the Eridu Archaeological Mission at Eridu (AMEr). **Previous position** Since 1994, he conducts experimental researches in the Laboratory of Ancient Near Eastern Art and Archaeology (Sapienza University of Rome) and in the Semeion Research Centre (MIUR). Here he is studying the new advanced mathematical methods of Natural Computing and of Computational Biology (Artificial Adaptive Systems, Evolutionary Algorithms, Genetic Algorithms, Artificial Neural Networks ANNs, Expert Systems, Self-Organized Systems) for the archaeological, geographical, aesthetical and linguistic data analysis. Graduated cum laude

at La Sapienza (1996), his experimental thesis on Lower Mesopotamian Urban Revolution has been published as a monograph in 1999 (La Sapienza, Rome); his PhD Dissertation on the ancient Mesopotamian Settlement Systems has been synthesized in a long scientific article in 2002 (Accademia Nazionale dei Lincei, Rome 2002) and his Specialization School of Oriental Archaeology Dissertation has been integrated in a scientific essay on the epistemic relation between Archaeology, Artificial Intelligence and Computer Semiotic (Bollati Boringhieri, Torino 2010). In 2013, he published as author an archaeological essay on the Ancient Mesopotamian mythopoeic thought (Editoriale Artemide, Rome 2013) and in 2014 as editor in chief he published an interdisciplinary Special Issue of the peer reviewed open access journal *Archeologia e Calcolatori* on the contemporary relationships between Analytical Archaeology and Artificial Intelligence (All'Insegna del Giglio, Firenze 2014). **Awards** 2010-11 Sapienza Research Award (32.000,00 euro) received for *Archeosema*, a meta-disciplinary project of theoretical, analytical and experimental archaeology related to the openness of the modern archaeology (Archeo) to the analysis of historical, physical, linguistic and aesthetic signs (Sema) underlying natural and cultural systems and simulated through Artificial Sciences. 2014-15 Sapienza Research Award (48.000,00 euro) received for the research program Analytical Archaeology of the Southern Mesopotamian Urbanism (AASMU). The epistemic framing of the AASMU research is founded on the roots implanted with the project *Archeosema*: in fact it is a further attempt to apply the Artificial Sciences models to the analysis of the Southern Mesopotamian Urbanism as a complex natural and cultural phenomenon. 2015-16 Sapienza Great Project (25.000,00 euro) received for the research program Atlas of the Ancient Near East (AANE). 2017-2018 Sapienza project (3.000 euro) received for the research program "Atlante dei linguaggi figurativi nella Mesopotamia delle prime città-stato".

Teaching activities From 2002 to 2004 he taught as Adjunct Professor of Computer Science for Archaeology at La Sapienza University of Rome. From 2004 to 2008 he taught as Adjunct Professor of Ancient Near Eastern Art and Archaeology (SSD: L-OR/05) at the University of Urbino Carlo Bo. In 2004 he taught as Adjunct Professor of Ancient Near Eastern Art and Archaeology La Sapienza University of Rome. Since 2007 he teaches as Aggregate Professor of Ancient Near Eastern Art and Archaeology at Sapienza University of Rome, in the Faculty of Philosophy, Letters, Humanities and Oriental Studies, now Faculty of Letter and Philosophy. He follows at Sapienza: bachelor's degree students, master's degree students, specialization's degree students and PhD students in Near Eastern Archaeology, Near Eastern Art History, Archaeometry and Computer Sciences, Museums and Archaeological Parks Valorisation.

Institutional responsibilities From 1992 to 2013, he has been member of the Ebla Archaeological Mission and field director. From 1999 to 2012, he coordinated scientific, administrative and educational activities related to the Ebla Archaeological Park (Syria), and since 2008 he has coordinated the scientific relations between the archaeological site of Ebla and the archaeological museum of Ebla at Idlib as part of a cooperation project between the European Economic Community and the Italian Ministry of Foreign Affairs. He was named to plan and to cooperate in many national and international projects, and has recently been involved as interdisciplinary research team coordinator in two FP7 European projects: 2008 - SECOA (Solving Environmental Conflicts in Coastal Areas); 2009 - Ebla (The Early State and Its Chora. Towns, villages and landscape at Ebla in Syria during the 3rd Millennium BC. Royal Archives, Visual and Material Culture, Remote Sensing and Artificial Neural Networks). Since 2012 he is a designated member of the Curriculum of Doctoral School in Archaeology at Sapienza University of Rome. Memberships of scientific research centres and journals He is member of the Sapienza Interdepartmental Centre of Science and Technology for the Conservation of Cultural Heritage (CISTeC) and of the Sapienza Interdepartmental Research and Services Centre (DIGILAB). He is member of the following editorial boards: 1995 *Orient Express* (ISSN 1161-0344); 2004 *Contributi e Materiali di Archeologia Orientale* (ISSN 1120-9631); 2009 *Notiziario di Archeologia e Storia dell'Arte del Vicino Oriente antico* (ISSN 1971-3177); 2011 *Cognitive Philology* (ISSN 1724-5869); 2011 *Vicino & Medio Oriente* (ISSN 2240-16336); since 2013 he is Vice-Director; 2014 *Archeomatica* (ISSN: 2037-2485); 2014

Scienzedell'Antichità (ISSN 1123-5713; ISBN 978-88-7140-486-9); 2016 Quality and Quantity (ISSN: 0033-5177); 2017 Scienze del turismo e mobilitàumana (ISBN: 978-88-9377-005-7)

Exhibits and dissemination From 1998 to 2005, he was director of the regional archaeological, anthropological and ethnographical museum ErcoleNardi (PoggioMirteo, Rieti) founded and opened with an experimental exhibition entitled "FrammentiSabini" (1998). Since 2013 he is member of the Scientific Council of the ancient Near East museum at La Sapienza University of Rome, where the Mesopotamian section was recently organized (2015). He planned various international archaeological exhibits, including some specifically dedicated to the visual representation of the ancient Babylonian arts, sciences and techniques (Arslantepe. Il tempo in posa, Roma – Museo dell'Arte Classica 2000; Ebla tra Passato e Futuro, Ferrara – Salone del Restauro 2000; The Ebla Archaeological Park, Damasco – National Museum of Damascus 2002; Il Giardino Antico da Babilonia a Roma, Firenze – Giardino dei Boboli 2006; Pulvis et Umbra Sumus, Roma – Museo della Centrale Montemartini 2007; Galileo. Immagini dell'Universo dall'Antichità al Telescopio, Firenze – Palazzo Strozzi 2007; Vinum Nostrum. Arte, Scienza e Miti del Vino nelle Civiltà del Mediterraneo Antico, Firenze – Palazzo Pitti 2010; Orizzonti migranti: Amorrei e Aramei, Genova – Festival della Scienza 2010; La collezione glittica Santarelli: Mesopotamia, Roma – Musei Capitolini 2012). He is editor of radio broadcasts focusing on legal and political issues of defence and enhancement of the Eastern Mediterranean, Near Eastern and Mesopotamian Cultural Heritage. **Up to ten representative publications, from the last ten years:** 1. M. Ramazzotti, An Integrated Analysis for the Urban Settlement Reconstruction. The Topographic, Mathematical and Geophysical Frame of Tell Mardikh, Ancient Ebla, in H. Kühne et al. (eds), Proceedings of the 4th International Congress of the Archaeology of the Ancient Near East, Berlin 2008: 191-205 (ISSN: 0030-5367); 2. M. Ramazzotti, A. Di Ludovico, Reconstructing Lexicography in Glyptic Art: Structural Relations between the Akkadian age and the Ur III Period, in R. D. Biggs et al. (eds.), Proceedings of the 51st Rencontre AssyriologiqueInternationale, Chicago 2008: 263-280 (ISSN: 00817554); 3. M. Ramazzotti, Dall'automazione del Record geomagnetico alla scoperta del «Tempio della Roccia» (2400-2350 a.C. ca.), in «Archeomatica», 0, 2009: 12-15 (ISSN: 2037-2485); 4. M. Ramazzotti, A Presage of Heresy. Metaphysical Notes and Iconographic Themes for an Archaeology of the Mesopotamian Skies, in Galluzzi, P. (ed.), Galileo. Images of the universe from antiquity to the telescope, Giunti, Firenze 2009: 54-65 (ISBN: 880974232X); 5. M. Ramazzotti, Ex Oriente... Vinum! Archaeology, Art and Literature among the Wine-Growing Cultures of the Ancient Near East, in Di Pasquale, G. (eds.), Vinum Nostrum: art, science and myth of wine in ancient Mediterranean cultures, Giunti, Firenze 2010: 242-256 (ISBN-10: 8809752392; ISBN-13: 978-8809752399); 6. M. Ramazzotti, The Ebla Archaeological Park. Natural, Archaeological and Artificial Italian Portrait of the Ancient Syrian Capital, in P. Matthiae et al (eds.), Proceedings of the 6th International Congress on the Archaeology of the Ancient Near East, HarrassowitzVerlag, Wiesbaden 2010: 581-597 (ISBN 978-3-447-06216-9); 7. M. Ramazzotti, Ideografia ed estetica della statuaria mesopotamica del III Millennio a. C., in M. Liverani, M. G. Biga (eds.), "ana turrigimilli". Studi dedicati al Padre Werner R. Mayer, S. J. da amici e allievi, Sapienza, Roma 2010: 309-326 (ISSN 0393-0300); 8. M. Ramazzotti, Anatomia di Akkad. Le ombre di una città invisibile dal suo paesaggio storiografico, estetico e storico, in R. Dolce et al. (eds), Quale Oriente? Omaggio a un Maestro. Studi di Arte e di Archeologia del Vicino Oriente in memoria di A. Moortgat a trenta anni dalla sua morte, Flaccovio Editore, Palermo 2011: 341-375 (ISBN 978-88-7804-495-1); 9. M. Ramazzotti, Argilla. Mito, storia e archeologia della terra cruda nell'antica Mesopotamia, in M. Ramazzotti - G. Greco (eds), Argilla. Storie di terra cruda, Artemide, Roma 2011: 9-20 (ISBN 978-88-7575-153-1); 10. M. Ramazzotti, A. Di Ludovico, Design at Ebla. The Decorative System of a Painted Wall Decoration, in «Orientalia» 80, 2011: 66-80 (ISSN: 0030-5367); 11. M. Ramazzotti, Il sigillo cilindrico nella cultura amministrativa e artistica dell'antica Mesopotamia. Gli esempi del III e del II mill. a.C. conservati ai Musei Capitolini, in A. Gallottini (ed.), La glittica Santarelli ai Musei Capitolini Intagli, cammei e sigilli, Artemide, Roma 2012: 25-41 (ISBN 978-88-7575-143-2); 12. M. Ramazzotti, The

Ideological and Aesthetic Relationship Between Ur And Ebla During The Third Millennium B. C., in Proceedings of the 7th International Congress on the Archaeology of the Ancient Near East, HarrassowitzVerlag, London 2012: 53-72 (ISBN 978-3-447-06685-3); 13. M. Ramazzotti, Aesthetic and Cognitive Report on Ancient Near East Clay Figurines Based on Some Early Bronze and Middle Bronze Records Discovered at Ebla – Tell Mardikh (Syria), in «Scienzedell’Antichità», XVII, 2012: 345-375 (ISSN 1123-5713; ISBN 978-88-7140-486-9); 14. M. Ramazzotti, A. Di Ludovico White, Red and Black. Technical Relationships and Stylistic Perceptions between Colours, Lights and Places in Mesopotamia and Syria during the Third Millennium BC. in Proceedings of the 7th International Congress on the Archaeology of the Ancient Near East, London, HarrassowitzVerlag, Wiesbaden 2012: 287-302 (ISBN 978-3-447-06685-3); 15. M. Ramazzotti, The restoration of the Fewet compound, in L. Mori (ed.), Life and death of a rural village in Garamantian Times. Archaeological investigations in the oasis of Fewet (Libyan Sahara), Firenze 2013: 369-374 (ISBN 9788878145948); 16. M. Ramazzotti, Where Were the Early Syrian Kings of Ebla Buried? The Ur-Eridu Survey Neural Model as an Artificial Adaptive System for the Probabilistic Localization of the Ebla Royal è madím, «Scienzedell’Antichità», XIX, 2013: 10-34 (ISSN 1123-5713; ISBN 978-88-7140-535-3); 17. M. Ramazzotti, Logic and Semantics of Computational Models for the Analysis of Complex Phenomena. Analytical Archaeology of Artificial Adaptive Systems, in A. Montanari, (ed.), Urban Coastal Area Conflicts Analysis Methodology: Human Mobility, Climate Change and Local Sustainable Development. Cap. 1. SECOA FP7 Research Project, Rome 2013: 23-56 (DOI: Web. 30 September 2013); 18. M. Ramazzotti, Analytical Archaeology and Artificial Adaptive Systems, in M. Ramazzotti (ed.), ARCHEOSEMA Artificial Adaptive Systems for the Analysis of Complex phenomena. Collected papers in Honour of David Leonard Clarke, «Archeologia e Calcolatori» Sup. 6, All’Insegna del Giglio, Firenze 2014: 15-52 (ISSN 2385-202X ISBN 978-88-7814-608-2); 19. M. Ramazzotti, Analytical Archaeology and Artificial Adaptive Systems Laboratory (LAA&AAS), in M. Ramazzotti (ed.), ARCHEOSEMA 2014: 53-84 (ISSN 2385-202X ISBN 978-88-7814-608-2); 20. M. Ramazzotti, The Mimesis of a World. The Early Bronze and Middle Bronze Clay Figurines from Ebla – Tell Mardikh, in S.M. Langin-Hooper (ed.), Figuring Out the Figurines of the Ancient Near East / Occasional Papers in Coroplastic Studies 1 / series editor, Jaimee P. Uhlenbrock, San Francisco, 2014: 39-64 (ISBN: 978-0-9915533-1-0); 21. M. Ramazzotti, Royal Administration During the Conquest. New Archaeological and Epigraphic Discoveries in the Royal Palace G at Ebla-Tell Mardikh, in H. Neumann et al. (eds.), Krieg und Frieden im Alten Vorderasien, Proceedings of the 52e Rencontre d’Assyriologie Internationale, Muenster 2014: 651-672. (ISBN 978-3-86835-075-3); 22. M. Ramazzotti, The Aesthetical Lexicon of Ebla’s Composite Art during the Age of the Archives. An Innovative Visual Representation of Words and Concepts inside the Early Dynastic Technology of the Images, in Proceedings of the 57th Rencontre Assyriologique Internationale at Rome, Eisenbrauns, Rome 2015: 135-154 (ISBN 978-1-57506-313-3); 23. M. Ramazzotti, The Iraqi-Italian Archaeological Mission at the Seven Mounds of Eridu, «Scienzedell’Antichità», XXI/1, 2015, 3-29 (ISSN 1123-5713; ISBN 978-88-7140-535-3); 24. M. Ramazzotti, Back to the Future. Structuring an Analytical Model for the Mesopotamian Urbanism: a view from the South, in M. Iamoni (ed.), Trajectories of Complexity. Socio-economic Dynamics in Upper Mesopotamia in the Neolithic and Chalcolithic Periods: Proceedings of the 9th International Congress on the Archaeology of the Ancient Near East at Basel (Studia Chaburensia 6), Wiesbaden, HarrassowitzVerlag 2016: 183-194 (ISSN 1869-845X; ISBN 978-3-447-10690-0); 25. M. Ramazzotti et al., From Monument to Urban Complex: The City of Ebla as Symbol of Royal Ideology, in Proceedings of the 2nd International Congress on the Archaeology of the Ancient Near East 22-26 May 2000, Copenhagen. Volume 1: The Environment, Images of Gods and Humans, The Tell Excavation Reports and Summaries Varia (Chronology, Technology, Artifacts), Edited by Ingolf Thuesen, Department of History and Cultures, University of Bologna / Eisenbrauns Bologna 2016: 435-441 (ISBN 978-88-6113-007-4; doi: 10.12878/orientlabsi2icaane-1); 26. M. Ramazzotti, Introduzione all’archeologia del paesaggio. Geografia cosmica, simulazioni geomatiche,

ricostruzioni potenziali e ipersuperfici neurali, in Celani, S. (a cura di), *Digital Humanities: strumento o fine? Elementi per una riflessione metodologica* (Status Quaestionis X), 2016, 99-113 (ISSN 2239-1983); 27. M. Ramazzotti, *Archeologia e traduzione. Prolegomena alla meccanografia e alla simulazione artificiale del sema*, in «Testo a fronte. Teoria e pratica della traduzione letteraria», 54/1, 2016, pp. 17-26 (ISSN 1128-238X); 28. M. Ramazzotti, *The Mythopoesis of Creation in Ancient Mesopotamia. Female Archetypes in the Psychological and Rhetorical Transmission of Good Governance*, in AA.VV. (eds.) *Women in Antiquity. Daughters, Wives, Sisters, Mothers, Witches and Saintes* (Forma Urbis International), Rome 2016, pp. 6-10 (ISBN 9788884441546); 29. M. Ramazzotti, *Introduzione all'archeologia del paesaggio. Geografia cosmica, simulazioni geomatiche, ricostruzioni potenziali e ipersuperfici neurali*, in Celani, S. (a cura di), *Digital Humanities: strumento o fine? Elementi per una riflessione metodologica* (Status Quaestionis X), 2016, 99-113 (ISSN 2239-1983).

**Researchmonographs:** 1. M. Ramazzotti, *Archeologia e Semiotica. Linguaggi, codici, logiche e modelli*, Bollati Boringhieri, Torino 2010 (ISBN 978-88-339-2024-5); 2. M. Ramazzotti, *Mesopotamia antica. Archeologia del pensiero creatore di miti nel Paese di Sumer e di Accad*, Editoriale Artemide, Roma 2013, ISBN 978-88-7575-175-3.

**Presentations** to peer reviewed, internationally established conferences and/or international advanced schools: Paris, Université de Paris I, Panthéon Sorbonne, ÉcolePratique des HautesÉtudes Sorbonne: Preliminary Reports of a Geophysical Survey at Tell-Mardikh-Ebla 2000-2001 (Conference 16-04-02); 2. Damascus, DGAM: Some Preliminary Signs of the Excavation of the North-East Sector of the Western Palace in Tell Mardikh-Ebla: 2000-2001 Campaign (Conference 27-08- 02); 3. Berlin, FreieUniversität: The topographic, mathematical and geophysical frame of Tell Mardikh, ancient Ebla (Conference 02-04-04); Damascus, Cultural Heritage Training Programme (Damasco, Sham Palace): The Ebla Archaeological Park: Project and ... Results. (Conference 13-12-04); Chicago, Oriental Institute: The «Urban Revolution» in Mesopotamia and Syria in the Iconology of Power (Conference 19-07-05); Chicago, Oriental Institute: Reconstructing Lexicography in Glyptic Art: Structural Relations between the Akkadian age and the Ur III Period (Conference 201-07-05); Madrid, Universidad Autonoma: Reconstructing the Ancient Painted Generative Grammar. An experimental analysis on the EBIVA «FF2 Building» decorative system recently discovered in Ebla - Tell Mardikh (Syria), Madrid 2005 (Conference); Münster, MünsterUniversität: Royal Administration During the Conquest. New Archaeological and Epigraphic Discoveries in the Royal Palace G at Ebla/Tell Mardikh (Conference 10/07/06); Sana'a, Sana'a University in Yemen: The Archaeology of Clay. The Ebla Archaeological Park as a model for Italian-Yemenite cooperation on cultural heritage protection (Conference 29/10/07); Lima, PontificiaUniversitàCatolica in Peru (PCUP): La Cittàmesopotamica. Ritrattoarcheologicoedestetico del primo urbanesimovicinoorientale (Conferences, Lessons and Workshops 10/04/08 – 25/04/08); Paris, College de France: A Preliminary, Aesthetic and Cognitive Report on Ancient Near East Clay Figurines Based on Some Early Bronze and Middle Bronze Records Discovered at Ebla – Tell Mardikh - Syria, (Conference 06-07-09); London, British Museum: White, Red and Black. Technical Relationships and Stylistic Perceptions between Colours, Lights and Places in Mesopotamia and Syria during the Third Millennium BC. (Conference with A. Di Ludovico 13-04-10); London, University College of London: The Ideological And Aesthetic Relationship Between Ur And Ebla During The Third Millennium B.C. (Conference 13-04-10); London, Metropolitan University – Cities Institute 2011: Theories, Models and Applications for the Analysis of Complex Phenomena (WP6 SECOA: Taxonomy and Modelling (Conference and Workshop 21/06/11 - 25/06/11); San Francisco, American School for Oriental Research 2011: The Mimesis of a World. The Early Bronze and Middle Bronze Clay Figurines from Ebla – Tell Mardikh (Conference 19/11/11); Basel - University of Basel: Back to the Future. The Analytical Archaeology of the Mesopotamian Urbanism (Conference 11/06/14); Wien - ÖsterreichischeAkademie der Wissenschaften: Wall Painting Techniques in Early Bronze Syria Clues of Parallelisms with the Traditions of the Mediterranean and Mesopotamian regions (Conference with Dr. Alessandro Di Ludovico 29/04/16); Rome - Museodelle terme di Diocleziano:

Alla ricerca del paradiso. Modelli, temi e prospettive della politica culturale italiana nelle aree di crisi della Mesopotamia antica (Conference with Dr. Alessandro Di Ludovico); Bari, Museo Civico di Bari: Archetipi in mutazione. In margine al significato didattico della Mesopotamia antica nell'insegnamento di base della storia dell'arte (Conferenza per L'Associazione Nazionale Italiana degli Storici dell'Arte ANISA) Bari 15/10/2016; San Antonio, Texas: A Neural Spatial Analysis of the Ur and Eridu Sub-regional Settlement System (American School of Oriental Research ASOR) San Antonio 17/11/2016; Atlanta, Georgia: Landscape Archaeology and Artificial Intelligence. The Neural Hypersurface of the Mesopotamian Urban Revolution (Computer Applications in Archaeology CAA) Georgia State University 16/03/17); Boston, Massachusetts: Encoding the Space: The Epistemic Frames of the Atlas of the Ancient Near East (AANE), (American School of Oriental Research ASOR) Boston 17/11/2017.