# **CURRICULUM VITAE - MARILÙ CHIOFALO**

#### PERSONAL INFORMATION

Family name, First name: Chiofalo, Maria Luisa Date of birth: 09/09/1968 Nationality: Italian Researcher unique identifier: ORCID: 0000-0002-6992-5963 URL for web site: <u>https://sites.google.com/a/unipi.it/physics-of-</u> matter/people/chiofalo-maria-luisa



#### EDUCATION

- PhD in Physics 70/70 with honors Scuola Normale Superiore – SNS, Pisa, Italy
   Master in Physics - 110/110 with honors - Faculty of Physics, University of Pisa, Pisa, Italy
   High-school diploma in classical studies – 60/60 – Liceo Classico "T. Campanella",
- Reggio Calabria

#### CURRENT and PREVIOUS POSITION(S)

- 2007 Associate Professor of Condensed Matter Physics Dept. of Physics, UNIPI, Pisa, Italy
- 2008 2018 Deputy Mayor. Mandate topics: Educational policies;Technologies for education; Science education; Equal opportunities; Pisa legacy; Anticorruption. Pisa Municipality, Italy
- 2004 2007 Junior Researcher. Scuola Normale Superiore SNS, Pisa, Italy
- 2002 2004 Junior Researcher on General Relativity Tests in Space. Mathematics Dept./UNIPI/Italy
- 1998 2002 Junior Researcher. Scuola Normale Superiore SNS, Pisa, Italy
- 1996 1998 Post-doctoral fellow. Scuola Normale Superiore SNS, Pisa, Italy

#### FELLOWSHIPS AND AWARDS

- 2023 Outstanding Referees of the Physical Review journals
- 2020 Selected as one of 100Experts-women expert in different fields, databank by Osservatorio di Pavia, Gi.U.L.I.A. and Bracco Found., with Centro Genders of Milan University for the STEMs, Bocconi University, ISPI, Cagliari University.
- 2016 Prize "Successful Women" within Beijin 20+ World contest. Sportello Donna, Pavia, IT.
- 2014 Prize Culture of Solidarity Pistoia (Italy)
- 1997 Prize for young MD students Italian Physics Society

#### SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2017 – 2024 2 Postdocs/ 2 PhD students, 20 Master students, 6 Bachelor students Phys. Depts., UNIPI, Italy (some as external supervisor of other European University students)

## TEACHING ACTIVITIES (only current courses)

- 2022 Prof. in charge Current Trends in Quantum Matter, MD-Physics, University of Pisa (UNIPI), Italy
- 2022 Prof. in charge The Physics of Everyday Life, BS in Physics University of Pisa & Master IDIFO, Italy
- 2022 Co-Teacher Physics 2B (electromagnetism), BS in Physics University of Pisa
- 2021 Prof. in charge Quantum Liquids, PhD and MD-Physics, University of Pisa, Italy [previously Many-Body Physics, 2014-2021]
- 2015 Prof. in charge Physics&Elements of Math.&Stat., BS in Pharmacy, UNIPI, Italy

2011 - Prof. in charge - Physics, MD in Pharmaceutical Chem.&Tech., UNIPI, Italy

ORGANISATION OF SCIENTIFIC EVENTS (as (co-)chair and a selection as member)

- 2024 Director of the interactive exhibition What a Wonderful Quantum World April 2024 2023 Co-creator of the event The Authoritative Word: the capacity of raising attention with G. Mazzini and G. Galletti (Labodif) at States General of Digital School in Bergamo... Participants: about 700.
- 2022 Co-creator of events The hidden intelligence: words, school, difference, STEM with G. Mazzini and G. Galletti (Labodif) and of Educating to quantum technologies with H. Lewandovski at States General of Digital School in Bergamo. Participants: 700.
- 2022 Member of the Scientific Committee of the USPID-PUGWASH Conference Nuclear Weapons: new risks. Castiglioncello (Italy) – Participants: 30
- 2022 Co-creator with Steve Shore of First sight of the Universe (with Steve Shore)-NASA/ESA awarded projection of the first JWST images on the Monumental Cemetery, Piazza dei Miracoli. Pisa – Participants: 2000
- 2021-2022 Chair of the Quantum Jungle exhibition: workshops and events. Palazzo Blu, Pisa Participants: 6000
- 2021-2022 Co-creator with S. Maniscalco 1<sup>st</sup> and 2<sup>nd</sup> Quantum Game Jams at Internet Festival Pisa (online) – Participants: 50 (in each edition)
- 2021 Chair of the Symposium Quantum Games for Physics Education at WCPE Hanoi (hybrid) – Participants: hundreds (synchronous and asynchronous attendants)
- 2017-'19-'22 Creator and chair Conference series on Quantum gases, Fundamental interactions, and Cosmology (QFC2017, QFC2019, QFC2022, QFC2024) Pisa, Italy – Participants: 50 in each edition
- 2019,'21-'22 Member of the organising committee of Workshops on Cold Atom Technology in Space and Terrestrial Very-Long-Baseline Atom Interferometry, organized by AEDGE CERN 2019- Participants: 60. Online 2021-Participants: 200. CERN 2022. Participants :150
- 2018– Member of the Scientific Committee for the Cosmos Award and since 2021 Cosmos Science Festival/Reggio Calabria/Italy
- 2002 Chair of the Symposium Mesoscopic Bose-Einstein condensates at nanokelvin temperatures: an ideal laboratory for mathematical applications within SIMAI congress Cagliari, Italy – Participants: 100
- 1997 Scientific Secretariat Chair, CXXXVI Course of the Intl. School of Physics "Enrico Fermi" on Models and phenomenology for conventional and high-tempertaure superconductivity; Directors R. J. Schrieffer and G. Iadonisi. Varenna, Italy – Participants: 100

## INSTITUTIONAL RESPONSIBILITIES

- 2024 Director of the PF60 Habilitation program for high-school physics teachers, issued by the University of Pisa on behalf of the Italian Ministry of Education.
- 2023 Board member of the UNIPI Community of Mentors (Co.Me)
- 2022 Delegate of Phys. Dep. and Council member of Master IDIFO/UNIPI& Udine U/Italy
- 2021 Executive board (elected), Physics Department/University of Pisa/Italy
- 2021–2023 Delegate of the Phys. Dept. in G6 group for K14 teachers' training of PLS/UNIPI/Italy 2017 – Delegate of Physics Department Head for teachers' training/University of Pisa/Italy
- 2023 Member of Committee for RTDA position at SNS
- 2023 Member of the Committee for one RTDA position in cond-matter/Catania/Italy
- 2022 -2023 Member of the Committee for one RTDB position in cond-matter phys./Pavia U./Italy
- 2022 Chair of Committee for researcher grant position WQuBit/University of Pisa/Italy
- 2022- Chair of 1 & member of 2 selection committees for teaching positions/Scuola

	Normale/Italy
2021 –	Member of Committee for RTDA position "New quantum-inspired models and algorithms to enhance bio-based systems and catalytic processes with application to
	future sustainable agriculture technologies" /University of Pisa/Italy
2020 -	Member of Committee for researcher grant position "Quantum Models and Simulations for Visual Neurosciences" /University of Pisa/Italy
2019	Chair of the Committee for one PhD degree in Physics/University of Pisa/Italy
2019-	Member of the Council of the Research Center for Training and Education/UNIPI/Italy
2018	Member of the Council of the Interdisciplinary Center for Peace Sciences and (2019-) and of the Responsible Research and Innovation team/University of Pisa/Italy
2018-20-21	Member of the Committee for the BS degree in Physics/University of Pisa/Italy
2017-	Member of the Council of Materials&Nanotechnology Course/University of Pisa/Italy
2014-	Member of the Council of the PhD School in Physics/University of Pisa/Italy
2020 -	Member of Editorial board of the CISP-Magazine/University of Pisa/Italy
2016	Member of the PhD in Physics admission committee/University of Pisa
2016 - 2018	Member of Committee for assessment of research (elected)/University of Pisa/Italy
2014-	Member of the Council of the PhD School in Physics/University of Pisa/Italy
2012-	Member of the Council of BSD and MD Course in Physics/University of Pisa/Italy
2007-	Member of Faculty&Councils of BS&MD Pharmacy Courses/University of Pisa/Italy
2007–	Chair of the committees for tutors selection, Physics courses of Pharmacy Dep./UNIPI/Italy

## **REVIEWING ACTIVITIES**

- 2023 External reviewer for proposals evaluation InnoFund, Denmark
- 2022 Panelist for MINT proposals evaluation, Swiss National Science Foundation/Swiss
- 2022 Associate Editor, Basic Science for Quantum Technologies
- 2020 Board member of Photonics
- 2020 Reviewer for selection of professor-staff member/Stanford University/USA
- 2019 Reviewer for selection of professor-staff member/Harvard University/USA
- 2019 Member of Committee for Habilitation de Research/Lab Kastler Brossels, Paris/France
- 2019, 2021 Reviewer for final round of ERC Starting Grant
- 2011-2014 Reviewer for the National Research Quality Assessment VQR)/Italy
- 2000 Reviewer: PRL/A/B/E/X, Nature, NJP, EPJ, EPL, Universe, Photonics, AJP

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2023 Member, ELLIS "European Lab for Learning and Intelligent Systems"/International
- 2022 Member of Scientific council of Italian Union Scientists for Disarmament/Italy
- 2012 Member, Women and Science Association/Italy
- 2012 Board member (elected), Associazione Normalisti/Scuola Normale Superiore/Italy

## MAJOR COLLABORATIONS (past and present)

Quantum technologies: M. Holland and D. Jin (JILA and UCB, US), S. Kokkelmans (TU-Eindhoven), S. Giorgini (Trento U), G. Morigi (Saarbrucken), B. Lev (Stanford, US), A. Smerzi (INO-CNR, Florence). Open quantum systems: S. Maniscalco (Helsinki U), A. Daley (Strathclyde) J. Keeling (St. Andrews). Neuroscience: C. Morrone (University of Pisa). Quantum chemistry: B. Mennucci (University of Pisa), S. Maniscalco. Mind&Matter: B. Kappen (Radboud U), P. Pylkkanen (Helsinki U). Fundamental physics: G. Tino (LENS, Florence), V. Vuletic (MIT, US), OLAGS (Optical Links for Atomic Gravity Sensors), AEDGE (Atomic Experiments for Dark Matter and Gravity Exploration), STE-QUEST (Space-Time Explorer and QUantum Equivalence Principle Space Test), VIRGO/LIGO coll. Analogue gravity: S. Liberati (SISSA), M. Mannarelli (LNGS), D. Grasso (INFN), Gia Dvali (LMU Munich). Physics Education Research: H. Lewandowski (JILA,US), M. Michelini (Udine U), H. Gardner (Harvard School of Education).

# LAST TEN YEARS TRACK-RECORD

I am an expert in the design of strongly correlated guantum states of matter under extreme conditions of low temperatures, strong interactions, and reduced dimensionality, and of their use for quantum technologies and precision measurements. My best recognized contributions are in the theory of superconductivity<sup>1</sup> and fermionic superfluidity, especially the prediction of resonance superfluidity in Fermi gases<sup>2</sup> later realized by Debbie Jin at JILA (over all papers more than 1000 citations), the first theory of time-dependent density functional for superfluids as a method3, and the simulation of Bose-gases dynamics also with applications to atom interferometry<sup>4</sup> (over all papers more than 1000 citations). During the last five years, my research has been reborn along new directions, taking advantage of ten years (2008-2018) slow-down for administrative and institutional offices, and while progressively folding up my previous interests. My way in science is extremely curiosity driven, connecting most abstract ideas with real experiments, and markedly with international traits. More recently, I could give to my research a truly cross-disciplinary character, in the way I imagined for myself as a science-passionate child, engendered by more recent encounters with inspiring women-scientists colleagues. My research now focuses on conceiving and engineering quantum technologies (mainly in quantum gases platforms), using quantum theoretical and simulation methods, in three directions:

(QS) Quantum simulators to address time-dependent, out-of-equilibrium problems of condensed matter or fundamental physics (like with analogue gravity), neurobiology (like with QoolNeSS), within the driven-dissipative open quantum systems framework. I recently started a program on quantum computing for biological systems within NEXT-Gen EU funded Italian Center for Quantum Computing, also being the PI of a EU-PON funded RTDA grant, and part of ELLIS- European Lab for Learning&Intelligent Systems.

(QM) Quantum metrology, also contributing to the cross-disciplinary networks AEDGE and STE-QUEST, and acting as internal reviewer in the VIRGO-LIGO collaboration.

(PER/POR) In addition, I have more recently formalized my disciplinary activity in Physics Education and Physics Outreach Research, the latter being a field that I have initiated.

# Projects as PI

## **QS-Quantum Simulators**

- EU-PON funded RTDA grant New quantum-inspired models&algorithms to enhance biobased systems with application to sustainable agriculture technologies (2021-) [CUP I55F21003080002, 153.253,68 euros]
- Scientific responsibility of specific activity within the HPC, Big Data and Quantum Computing PNRR CN 1 Spoke 10, Code CN00000013 – CUP I53C22000690001, funded under UE/MUR – Next Gen EU, corresponding to 54.000,00 euros.
- In addition: 2 MIT-UNIPI funded (2015-2017, 2019-2023) projects; KITP-funded follow-on research on *Black holes as open quantum systems* (coordinator) [and part of *Complex Quantum Networks* team coordinated by L. Carr, all re-scheduled after Covid19 outbreak].

<sup>&</sup>lt;sup>1</sup> Iadonisi, Chiofalo, Cataudella, Ninno, PRB 48, 12966 (1993); Models and Phenomenology for Conventional and High-Tc Superconductivity, Ed. by G Iadonisi, R.J Schrieffer and M L Chiofalo (IOS Press, 1998)]
<sup>2</sup> Holland, Chiofalo, Kokkelmans, Walser, PRL 87, 120406 (2001) (co-Pl); Chiofalo, Kokkelmans, Milburn, Holland, PRL 88,

<sup>90402</sup> (2002) (co-PI); Kokkelmans, Milstein, Chiotalo, Walser, Holland, PRA 62, 7438 (2000) (collaborative).
 <sup>1</sup> Chiofalo, Minguzzi, Tosi, Phys. B 254,188(1998); Chiofalo and Tosi, EPL53,162(2001) (main contributor).
 <sup>4</sup> Chiofalo, Succi, Tosi, PRE 62, 7438(2000); Burger et al., PRL 86,4447(2001) (simulations and theory); Ivanov, Alberti, Schioppo, Ferrari, Artoni, Chiofalo, Tino, PRL100,43601(2008) (co-PI); Holland, Jin, Chiofalo, Cooper, PRL 78, 3801(1997).

#### QM-Quantum Metrology

Pisa unit of INFN-granted projects for gravitational waves detection and equivalence principle tests with atom-interferometry technologies: MAGIA-adv (2015-2018) and OLAGS (2021-2023).

#### PER/POR-Physics Education Research/Physics Outreach Research

- Pisa unit of DigiQ (2022-) [GA N. 101084035, 265.146,00 euros]
- WQubit-The Quantum-Bit Woman, a unique-of-a-kind quantum videogame production to promote cultural heritage, quantum outreach, and citizen-science problem solving (2022-) on Tuscany-Region and BIHO funds [FSE- Regione Toscana, 60.000,00 euros]
- In addition: QUTE4E pilot (co-coordinator for QTEdu-CSA, 2021-2022); 2 UNIPI-granted PER projects (2019, 2022); GIREP Group Games for PER. I direct the Discover section of QPLayLearn.

Finally, I coordinated the proposal Integrating Human and Machine Minds for Quantum Technologies (IQHuMinds), submitted to the 2020 RISE MSCA call (Horizon2020) with the Consortium University of Turku (Finland), ICFO (Spain), JILA (Boulder, Colorado, US), VIS (Pisa, Italy), MiTale (Finland), QuSide (Spain), IBM-Zurich, Unity Tech. (San Francisco, US). Coordinator M. L. Chiofalo. Awarded with BIHO grant by UNIPI.

## Relevant publications and peer-reviewed research papers (2014-)

Overall, I published two monographies, one co-edited research book and almost 140 articles in peerreviewed journals. Among these, in the last 10 years I published one monography, 12 papers on **QS**, more than 43 on **QM** (more than 36 from the VIRGO-LIGO collaboration, 2021-), and 9 (2021-) on **PER/POR.** I list below a selection, mostly for relevance, specifying where I am PI or co-PI.

## Monography

G. ladonisi, G. Cantele, M. Chiofalo. Introduction to Solid-State Physics and Crystalline Nanostructures, Springer 2014.

## QS-Quantum simulators

 Yago Malo, Cicchini, Morrone, MC, Quantum spin models for numerosity perception, PLoS ONE 18(4):e0284610 (2023) (co-PI)

 Mannarelli, Grasso, Trabucco, MC, Hawking temperature and phonon emission in acoustic holes, Phys. Rev. D 103, 076001 (2021) (co-PI)

 Wilson, Jager, Reilly, Shankar, MC, Holland, Beyond one-axis twisting: Simultaneous spinmomentum squeezing, Phys. Rev. A 106, 043711 (2022) (co-PI).

 Bonetti, Rucci, MC, Vuletic, Quantum Effects in the Aubry Transition, Phys.Rev.Res.3,13031(2021) (coPI).

 Venegas-Gomez, Schachenmayer, Buyskikh, Ketterle, MC, Daley, Adiabatic preparation of entangled, magnetically ordered states with cold bosons in optical lattices, QST5 045013 (2020).

 Musolino and MC, Correlation Length and Universality in the BCS-BEC Crossover for Energy-Dependent Resonance Superfluidity, The Eur. Phys. J.-SPECIAL TOPICS 226, 2793 (2017) (PI).

 Colella, Citro, Barsanti, Rossini, MC, Quantum Phases of Spinful Fermi Gases in Optical Cavities, Phys. Rev. B 97, 134502 (2018) (PI).

 Di Dio, De Palo, Orignac, Citro, MC, Persisting Meissner state and incommensurate phases of hard-core boson ladders in a flux, Phys. Rev. B 92, 506 (2015) (collaborative).

## QM-Quantum metrology and fundamental physics

 Lucchesi and MC, Many-Body Entanglement in Fermi Gases for Metrology, PRL 123, 60406 (2019) (PI).  Shankar, Salvi, MC, Poli, Holland, Squeezed-state metrology with Bragg interferometers operating in a cavity, Quantum Science and Technology 4, 045010 (2019) (co-Pi).
 Bertoldi et al., AEDGE, EPJ Quantum Technology 7, 6 (2020) (collaborative).

 VIRGO/LIGO coll. Observation of Gravitational Waves from Two Neutron Star-Black Holes Coalescence, Astrophysical Journal Letters 915(1), L5 (2021) (collaborative).

## PER and POR (all as PI or co-PI):

- C. Foti, D. Anttila, S. Maniscalco, and M. Chiofalo, Quantum physics literacy aimed at K12 and the general public, Universe 7, 86 (2021)
- S. Goorney, C. Foti, L. Santi, J. Sherson, J. Yago Malo, and M. Chiofalo, Culturo-Scientific story-telling, Education Sciences 12(7), 474 (2022), Educ. Sci. 12(7), 474 (2022)
- M. Chiofalo, C. Giudici, H. Gardner, An interview with Howard Gardner: John H. and Elisabeth A. Hobbs research professor of cognition and education at the Harvard Graduate School of Education, EJMSTE 18(6) em2112 (2022)
- M. Chiofalo, C. Foti, M. Michelini, A. Santi, L. Stefanel, Games for Teaching/Learning Quantum Mechanics: A Pilot Study with High-School Students, Educ. Sci. 12(7), 446 (2022).
- Z. C. Seskir, P. Migdal, C. Weidner, A. Anupam, N. Case, N. Davis, C. Decaroli, İ. Ercan, C. Foti, P. Gora, K. Jankiewicz, B. R. La Cour, J. Yago Malo, A. Naeemi, L. Nita, N. Parvin, F. Scafirimuto, J. F. Sherson, E. Surer, J. Wootton, L. Yeh, O. Zabello, M. Chiofalo, Quantum Games and Interactive Tools for Quantum Technologies Outreach and Education, Optical Engineering, 61(8), 081809 https://doi.org/10.1117/1.OE.61.8.081809 (2022)
- M. Chiofalo and M. Michelini, An Interview with Marisa Michelini: IUPAP-ICPE Mdeal, Professor of Physics Education Research at Udine University, GIREP President, Eurasia Journal of Mathematics, Science and Technology Education, 19(4), em2243 (2023).
- S. Montagnani, A. Stefanel, L.Santi, M. Chiofalo, and M. Michelini, An experiential path on the foundations of quantum mechanics for last-year high-school students, Physics Education, Physics Education 58, 3 035003 (2023).
- Gentini L, Yago Malo J and Chiofalo M. The quantum bit woman: promoting the cultural heritage with quantum games. In Cultural Physics Awareness and Education: the Challenge of Digitalization 2023. Eds. Bonivento W, Michelini M, Streit-Bianchi M and Tuveri M. Springer Book Series Challenges in Physics Education.

Eight (8) more papers are published, or in press, or in the course of publication, 2 as PI or single author.

I also authored science audio/video formats and broadcast, more than 25 articles on magazines, and was invited to about 70 panels, public lectures, interviews on science, society, and gender studies.

## Conduction of research environments

My way is characterized by a neat attitude and educated expertise in setting up inclusive environments, no matter how complex are. Since 2017, I supervised 17 MD-thesis students (7 in 2022), who published from their work (see e.g. QS2, 4, 6-7, QM9), and are now pursuing their PhD in universities like MPI-Stuttgart, Innsbruck, LNGS, often changing subjects and even swapping to experiments.

# Invited visiting (2014-)

I have been invited for short (1 week)-to-medium (up to 2 months) term visiting in scientific institutions like JILA-UCB (2016,2017, and 2018), DESY-Hamburg (2023), ACP-Colorado (2021), KITP-Santa Barbara (2020, 2023), CERN (2019, 2022), IQOQI-Innsbruck (2018), MIT (2018, 2023), Stanford (2018), Strathclyde (2018).

## Invited talks (2014-)

I was invited to give about 30 talks on QS and QM, among others at ACP (US), ECT-Trento, Strathclyde, Harvard, MIT, JILA, Stanford, Innsbruck U.; more than 15 on QPER/POR, like at EQTC2021, WCPE2021, GIREP, SSC-Catania, Frontiers of Fund. Physics16. The talk A Quantum Model for Numerosity Perception was invited at Mind&Matter Helsinki, Quantum Hiking conf.2022, ELLIS unconference2023. I was invited by 500WS PisaPod to deliver a TWIST-Top Women in

Science Talk-to inspire young women scientists, at DESY -2023 Intl. Day of Girls and Women in Science, and at the 1<sup>st</sup> Women in Quantum conf. (2023), where I talked on (*Re-)Writing? Women* Authority and Intelligence in Science.

## Conferences organized (2014-)

QS/QM: I created and chair the Conference series Quantum gases, Fundamental interactions, and Cosmology (QFC2017-19-22).

**QPER/POR:** Chair of the WCPE2021 Symposium *Quantum Games for Physics Education*, and of the RRI training on Quantum Technologies for UNIPI PhD (2022-2023). I created or co-created first of a kind, small-to-large (thousands participants) outreach events: two last examples are **First sight of Universe**, (co-created with Steve Shore)awarded by NASA/ESA with the projection of the first JWST images on the walls of the ancient Monumental Cemetery in Piazza dei Miracoli (Leaning Tower of Pisa) with 2000 participants, the six-months exhibition **Quantum Jungle** (scientific co-responsibility with Sabrina Maniscalco) with 6000 visitors.

## Reviewer

I serve as evaluator of MINT proposals for SNSF (2022-), and served as reviewer for the final round of ERC-SG (2019,2021) and for professorship selections by Harvard, Stanford, and LKB-Paris.

## Editor

I serve as associate editor of Basic Science for Quantum Technologies (BSQT), and currently coeditor of special issues on quantum technologies for Photonics, and on RRI and QT for BSQT. I have been co-editor of the volume *Models and Phenomenology for Conventional and High-Tc Superconductivity*, Ed. by G Iadonisi, R J Schrieffer and M L Chiofalo (IOS Press, 1998).

## Recognitions

I was selected as one of 100Experts women in different fields (see CV) and awarded as 2022 Outstanding Referee of the Physical Review Journals. I was awarded with a personal invitation in Vatican City (2017) by the Dicastero Vaticano per lo Sviluppo integrale della Persona with Pope Francis, because of my "commitment and contributions to the culture and practice of the integral nuclear disarmament".

## Administrative/Institutional offices

In 2008-2018 I served as Deputy-mayor of the Pisa Municipality, caring about schools and education, technologies, equal opportunities, Pisa legacy, anticorruption planning and ethic code of conduct. In this role, I used my scientific-thinking skills to design a number of addressing and assessment tools for policies and for their implementation, involving large budget fractions. I was also elected Chair of the metropolitan Pisa area for education policies and appointed by the National Association of Italian Municipalities to three boards aimed at national policies planning: Observatory for Infancy and Adolescence, Steering committee for planning against domestic violence on women, (Tuscany) Observatory against gambling. During this time, I have continued teaching (about 160 class hours/year), though my research activity was slowed down. The administrative experience that I gained as Deputy-major of a city of more than 90000 residents and twice as many habitants (including more than 43000 university students), has strengthened my skills in coordinating large research groups and in focusing my research on important and envisioning questions.

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