

Maurizio TIEPOLO
- Curriculum Vitae -

Maurizio TIEPOLO
Associate Professor of Urban and Regional Planning
Politecnico di Torino

AREAS OF ACADEMIC INTEREST

Climate change adaptation, Climate planning, Disaster risk reduction, Land policies, Land surface temperature, Land tenure, Land use/land cover change, Local development, Regional planning, Sustainable development, Urban Planning

EDUCATION

1992, Specialization in Technology, architecture and city in Developing Countries at Politecnico of Turin (2 years)
4/03/1987, MSc - Architecture at IUAV-Architecture University Institute of Venice (5 years)

ACADEMIC EMPLOYMENT

10/2002-present, Associate professor, Urban and Regional Planning, Politecnico di Torino
2/1994, Lecturer (with tenure), Urban and Regional Planning, Politecnico di Torino
10/1992-10/1993, National Research Council grant holder at Politecnico di Torino

PUBLICATIONS METRICS

	Google Scholar	Scopus	Web of Science
Citations	282	67	57
H-index	8	5	5
i10 index	8	-	-

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RESEARCH LINES

My research activity is focused on the fundamental themes of urbanism (environment, land, urbanization, risk and adaptation to climate change, urban and regional plans). The research is rooted in three main contexts (Congo, Niger, Senegal) in each of which I have carried out research projects for over a decade. In parallel, I conducted research for shorter periods in 7 other contexts (Ecuador, Haiti, Macedonia, Mauritania, Mozambique, Togo, Vietnam).

Research is developed in an interdisciplinary (Agronomy, Geomatics, Hydraulics, Hydrology, Climatology) and comparative way, animating networks of researchers to enrich methods and comparisons.

Innovative methods and discoveries are returned through vocational training offered to professionals, researchers, managers and technical executives in Italy and in the Global South.

I have developed six main strands of research:

1998-2004, Land Tenure and Land Policies in the Global South

2004-2011, Environment, natural resources and local development in the Sahel

2011-2013, Local management of the environment in the Sahel

2011-2021, Local development plans South of Sahara

2011-2021, Adaptation and reduction of hydro-climatic risk in the Tropics

2020-..., Settlement expansion and hydro-climatic hazards in West Africa

In recent years, land policies, urban dynamics, and environmental management previously investigated converge to identify spaces and modes of action for the planner to address climate change.

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COORDINATION OF RESEARCH TEAMS AND PROJECTS

2017-2021, Scientific responsible of the international action-research project ANADIA 2nd phase-Climate change adaptation, disaster prevention and agricultural development for food security-Phase 2, co-funded by the Italian Agency for Development Cooperation, Institute of Bio-Economy of the CNR (leader), Directorate National for Meteorology of Niger and DIST-Politecnico di Torino (DIST share 310,000 Euros).

2014-2016, Scientific responsible of the international action-research project ANADIA-Climate change adaptation, disaster prevention and agricultural development for food security, co-founded by Directorate General for Development Cooperation of the Italian Ministry of Foreign Affairs, Ibimet-CNR (leader), Directorate National for Meteorology of Niger, DIST-Politecnico di Torino (DIST Share: 87,000 Euros).

2011-2013 Assessing, Planning and Managing the Territory and the Environment Locally in Sub-Saharan Africa, Italian Ministry of the University and Research/PRIN-National Interest Research Program (69,000 Euros, Politecnico di Torino share: 38,000 Euros), led by Politecnico di Torino (PI: M. Tiepolo).

2009-2011 Innovative Methodologies and Techniques for Environmental Governance in the Sahelo-Sudanian Africa: Natural Resources Local Management, Italian Ministry of the University and Research/PRIN-National Interest Research Program (66,000 Euros, Politecnico di Torino share: 26,000 Euros), led by L'Aquila University. Scientific responsible of the Politecnico research unit: Maurizio Tiepolo.

2013-2014, Drought vulnerability assessment and livelihood characterization study of native population of Paraguayan Chaco, for Chaco Repere: Increasing drought resilience of livelihoods in vulnerable indigenous communities of the Paraguayan Chaco project, funded by EC DG ECHO. Team coordinator of 3 experts (990,000 Euros, Politecnico di Torino share: 10,000 Euros), led by COOPI NGO.

2010-2013, INS-Triangular cooperation (Italy-Niger-Senegal) project to develop the capacities of local governments in managing local budget, funded by EuropeAid. Scientific responsible of the Project (1,100,000 Euros) led by Provincial Administration of Turin (Public institution) [attached statement].

2009-2010, Monitoring and evaluation of the food security and anti-poverty actions implemented by the municipal development plan of Téra, Niger, 2007-2010. Scientific responsible and coordinator of a team of 5 experts implementing the municipal GIS, drafting the ex-post evaluation methodology of the municipal development plan 2007-2010. Lead author of the final report (50,000 Euro), led by Provincial Administration of Turin (Public institution).

2007-2008, Project for capacity strengthening of the Niamey municipality (Niger) to increase the access of the Poor to community services: Creation of a planning unit, funded by Piedmont Region (Italy). Scientific responsible, coordinator of 5 experts during the GIS test on Niamey 1 and leading author of the final report. (58,000 Euro), led by Provincial Administration of Turin, Italy (Public institution).

2005, Natural resources management in two regions of Niger. Scientific responsible (Politecnico di Torino share: 8,330 Euros) funded by Provincial Administration of Turin (Public institution).

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2003, Project for food security increase and poverty reduction in Niamey, Niger: Kongou-Gourou mini-dam valorization, funded by Region Piedmont (Italy). Coordinator of the international team of experts charged to draft the baseline study for the Kongou-Gourou dam irrigation project, Niamey (65,000 Euros), led by Provincial Administration of Turin, Italy (Public institution).

EDITORSHIP OF PEER-REVIEWED JOURNALS

2020-2021, Guest editor for Sustainability open access journal (MDPI), special issue "Risk-informed Sustainable Development in the Urban Tropics", 3 articles published, https://www.mdpi.com/journal/sustainability/special_issues/Risk-informed_Sustainable_Development

2019-2020, Guest editor for Sustainability open access journal (MDPI), special issue "Risk-informed Sustainable Development in the Rural Tropics", 24 articles published, https://www.mdpi.com/journal/sustainability/special_issues/Risk_Informed_Sustainable

2018-2019, Guest editor for Climate open access journal (MDPI), special issue "Climate Services for Local Disaster Risk Reduction in Africa" (9 articles published, 9014 full text downloads) https://www.mdpi.com/journal/climate/special_issues/Africa

1999-2002, Guest editor of Storia Urbana (Urban History) for the "Urban land in Developing Countries" program (88-89, 91, 98/99), 19 articles published.

1999-2012, Co-editor of the Third World City book series for L'Harmattan Italy, Turin, 15 books published.

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EDITORIAL BOARD OF BOOK SERIES

2003-2010 Director of the Third World City Center on-line working papers, 35 issues, ISSN 1974-4943, ISBN 9788896128360.

1996-2003 Director of the Working Papers of the Specialization school in Technology, Architecture and city in Developing Countries at Politecnico di Torino, 22 issues.

1989-2009 Secretary general of Storia Urbana journal. FrancoAngeli publisher, Milan. ISSN 0391-2248.

DIRECTION OF RESEARCH CENTERS

2009-2013, Director of the Third World City Center at DITER, then DIST, Politecnico di Torino.

VISITING IN UNIVERSITIES AND RESEARCH CENTERS

2021-..., Associated researcher at Institute of Bio Economy of the National Research Council at Florence, Italy.

2011-2019, Associated researcher at Bio-Meteorology Institute of the National Research Council at Florence, Italy.

2002/6/17-27, Coordinator of the vocational training on Rural-urban land use conversion. Analysis and planning for food security and sustainable environment at CRA-Centre Regional Agrhymet of the CILSS-Permanent Interstate Committee for

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Drought Control in the Sahel, Niamey, Niger within the Training project on Natural Resources and food security (1 million Euros, Politecnico share: 5,000 Euros) led by the Overseas Agronomic Institute of Italy.

1998, Visiting scholar at Hanoi Architectural University, Viet-Nam.

1992/3-9, Visiting scholar with an Italian National Research Council of Italy grant at the Université d'Aix-Marseille II, Aix-en-Provence, France.

ACADEMIES

2016-2020, Member of the Interdepartmental Centre of Research and Technical and Scientific Cooperation with Africa - CISAO-University of Turin.

1997-to date, Founding member of NAERUS-Network-Association of European Researchers on Urbanization in the South. A multidisciplinary network of 652 researchers and experts working on urban issues in Developing countries.
http://n-aerus.net/wp/?page_id=52.

SELECTED HONORS

2019 Politecnico di Torino economic incentive after evaluation of the teaching and scientific activity performed in the previous 3 years (Law 240/2010 art. 29-19).

2015 Politecnico di Torino economic incentive for the publications and the quality of the courses taught (as ascertained by Student's questionnaires) in 2011 and 2013 (Law 240/2010 art. 29-19).

2014 Italian Ministry of Education, University and Research, National academic qualification to attend selections for full professorship.

2005 Co-editor of one of 7 top publications of Department Interuniversity Territory to represent the Politecnico di Torino at the Italian Steering Committee for research evaluation (CIVR)

2000 National Research Council of Italy prize for publication.

1993 NRC-National Research Council (Italy), grant at Politecnico di Torino-DITER-Interuniversity Department of Territory for research on Brazzaville urban planning.

1992 NCR-National Research Council (Italy), grant for research to be developed abroad (University of Aix-Marseille II, France).

1990 IIA-Italian African Institute, Rome, grant for on field research in Africa (Brazzaville).

1990-1991 Politecnico di Torino fellowship.

1988 Perini award for researches on Milan's neighborhoods for publication.

PARTICIPATION IN INTERNATIONAL CONFERENCES

2016, Urban Impact of Climate Change in Africa 3 - Climate risk assessment and mitigation approaches: experiences from ANADIA Niger and other initiatives, Turin, March 11

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2013, Urban Impact of Climate Change in Africa 2 - Planning with scant information, Turin, November 13

2011, Urban Impact of Climate Change in Africa, Turin, November 16

and participated to relevant conferences as distinguished invited speaker:

2015, Risk analysis and evaluation to improve climate adaptation planning in Western Niger, "Rome 2015 Science symposium on Climate", FAO, Rome, November 19-20

1996, Land management in Nkayi, "Habitat II / Settlement Upgrading Program Special Event", Istanbul, United Nations

COURSES TAUGHT

Politecnico di Torino

2013-21, Urban Planning, at Architecture Bachelor

2018-21, Climate Planning at Spatial Planning for Climate Change Studio, Territorial, urban environmental and landscape planning Master

2017-20, Urban Planning, Climate Change, at Urban and regional development PhD

2015-16, Piani e progetti di città, at Habitat e cooperazione Permanent education course

2012-13, Urbanistica nell'Atelier di progettazione, at Architettura per il progetto Master

2011-12, Adattamento delle città al cambiamento climatico nei paesi meno sviluppati, at Environment and Territory PhD

2010-11, Pianificazione dello sviluppo locale nelle regioni meno avanzate, at Environment and Territory PhD

2010-11, Progettazione urbanistica, Laboratorio di progettazione urbana, at Progettazione di giardini, parchi e paesaggi Master

2009-10, Analisi della città e del territorio, at Architettura for project Master

2005-07, Laboratorio di progettazione urbanistica con Sociologia urbana A, at Architettura for project Master

2004-12, Urbanistica, at Architetture for project Master

2001-04, Politiche urbane e territoriali, at Architetture I Master

High Polytechnic School (Politecnico of Milan and Turin)

2011-2013, academic tutor within the "Imparar" project, developed at Guayaquil (Ecuador) with Catolica University of Guayaquil and Guayaquil Municipality

2007-2008, academic tutor within the "UP4Tin" project, developed at Guayaquil (Ecuador) with Catolica University of Guayaquil and Guayaquil Municipality

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RESPONSABILITY OF MASTER COURSES

2016 City Plans and Projects, at the Habitat and cooperation vocational training course, Politecnico di Torino (2 credits), course offered in Italian.

2010-13 Plans and Projects for the Third World Cities, Master at COREP-Politecnico di Torino, director of the master offered in French.

2007 Plans and Projects Studio (1 credit) at the Master Plans and Projects, offered in French.

2004-2006 Urban Planning (1 credit) at the Master Plans and Projects 3 courses offered in French.

2003-2004 Rural-Urban Land Conversion. Analysis and Planning for Food Security in Developing Countries (1 credit) at Specialization School in Technology Architecture and City, 2 courses offered in Italian.

1999-2001 Regional Planning and Planning Law (5 credits), 2 courses offered in Italian.

1993-2001 Informal settlements upgrading (1 credit) School of Specialization in Technology, Architecture and City, 10 courses offered in Italian.

TUTOR OF Ph.D CANDIDATES

Enrico Ponte, Madhav Giri, Massimiliano Granceri, Maurizio Bacci, Giacomo Cazzola, Giovanni Massazza

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SUPERVISOR OF MASTER THESIS

Luca Bondi, Benedetta Lanza, Laura Giordano, Sarah Braccio, Marco Forgnone Bagnasacco, Chantal Erbino, Enzo Cupane, Maria Fernanda Valdez Lam, Daniela Passone, Daniela Passone, Veronica Edvige Famà, Jennifer De Zanet, Andres Burbano Tovar, Hong Chen, Enrico Ponte, Diana Beatriz Munoz Gonzalez, Sanaa Khalil, Nicolino Colaprico, Chiara Simeoni, Alessandro Lovizolo, Sofia Stella Masciulli, Michela Bortolotto, Andrea Galligari, Giovanni Foresto

INSTITUTIONAL OFFICIES AND ROLES IN UNIVERSITIES

2010-2013 director of the master "Plans and Projects for the Third World Cities", Politecnico di Torino at COREP.

2017-... Member of the Doctoral college in Urban and Regional Development at the PhD school of the Politecnico of Turin

PUBLICATIONS

6 books (monographies), 14 edited books, 42 chapters of books, 30 peer-reviewed journals articles, 10 working papers, 22 technical reports

Most cited publications (Google Scholar)

1. Tiepolo M. 2014. Flood risk reduction and climate change in large cities south of the Sahara, in Tiepolo M., Macchi S. (Eds), Climate change vulnerability in Southern African Cities. Cham, Springer. doi: 10.1007/978-3-319-00672-7_2. Google Scholar citations: 23.

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2. Massazza G., Tamagnone P., Wilcox C., Belcore E., Pezzoli A., Vischel T., Panthou G., Mohamed Ibrahim H., Tiepolo M., Tarchiani V., Rosso M. 2019. Flood hazard scenarios of the Sirba river (Niger): Evaluation of the hazard thresholds and flooding areas. *Water* 11(5), 1018. Google Scholar citations: 18.
3. Tiepolo M., Macchi S. (Eds). 2014. *Climate change vulnerability in Southern African cities*, Cham, Springer: 240. doi: 10.1007/978-3-319-00672-7. Google Scholar citations: 13.
4. Tiepolo M., De Filippis T., Katiellou G.L., Ibrahim M.H., Marchi V., Massazza G., Pezzoli A., Rapisardi E., Rocchi L., Rosso M., Tamagnone P., Tarchiani V. Community impact based EWS food risk preparedness: SLAPIS Sirba River Niger. *Sustainability* 12, 1802. doi: 10.3390/su12051802. Google Scholar citations: 13.
5. Tiepolo M. 2009. *Lo sviluppo delle aree rurali remote: petrolio, uranio e governance locale in Niger*. Milano, Franco Angeli. Google Scholar citations: 13.
6. Tiepolo M., Bacci M., Braccio S. 2018. Multi-hazard risk assessment for planning with climate in the Dosso region, Niger. *Climate* 6(67). doi: 10.3390/cli6030067. Google Scholar citations: 12.
7. Tiepolo M., Rosso M., Massazza G., Belcore E., Issa S., Braccio S. 2019. Flood assessment for risk-informed planning along the Sirba River. *Sustainability* 11(15). doi: 10.3390/su11154003. Google Scholar citations: 10.
8. Tiepolo M., Carozzi C. 2006. *Sahel nigerino. Quando sopravvivere è difficile. Pressione demografica e risorse naturali*, Milan, FrancoAngeli. Google Scholar citations: 10.
9. Tiepolo M., Braccio S. 2016. Flood risk assessment at municipal level in the Tillabéri region, Niger. In Tiepolo M., Cristofori I., Ponte E. (Eds), *Climate change characterization and planning in large tropical and subtropical cities*. Berlin, De Gruyter Open, 221-242. ISBN 978-3-11-048078-8. Google Scholar citations: 8.
10. Tiepolo M., Braccio S. 2016. Flood Risk Preliminary mapping in Niamey, Niger. In Tiepolo M., Cristofori C., Ponte E. (Eds). *Planning to cope with tropical and subtropical climate change*. Berlin, De Gruyter Open. doi: 10.1515/9783110480795-013. Google Scholar citations: 7.
11. Tiepolo M. 1996. City Profile: Brazzaville. *Cities* 13(2), 117-124. doi: 10.1016/0264-2751(95)00123-9. Google Scholar citations: 7.
12. Tiepolo M., Tarchiani V. 2016. *Risque et adaptation climatique dans la région Tillabéri, Niger. Pour renforcer les capacités d'analyse et d'évaluation*. Paris, L'Harmattan, ISBN 978-2-343-08493-0. Google Scholar citations: 6.
13. Tiepolo M. 2011. *Suivi et évaluation des plans de développement communal au Sahel avec le cas d'étude de Téra (Niger)*. Torino, L'Harmattan. Google Scholar citations: 6.
14. Tiepolo M., Braccio S. 2020. Mainstreaming disaster risk reduction into local development plans for rural tropical Africa. A systematic assessment. *Sustainability* 12(6), 2196. doi: 10.3390/su12062196. Google Scholar citations: 5.
15. Tiepolo, Braccio 2017. Local and scientific knowledge integration for multi-risk assessment in rural Niger. In Tiepolo M., Pezzoli A., Tarchiani V (Eds), *Renewing local planning to face climate change in the Tropics*, Cham, Springer, 227-245. doi: 1007/978-3-319-59096-7_11. Google Scholar citations: 5.
16. Tiepolo M., Cristofori E. 2016. Climate change characterization and planning in large tropical and subtropical cities. In Tiepolo M., Cristofori I., Ponte E. (Eds), *Climate change characterization and planning in large tropical and subtropical cities*. Berlin, De Gruyter Open, 6-41. ISBN 978-3-11-048078-8. Google Scholar citations: 5.
17. Tiepolo M., Bacci M. 2017. Tracking climate change vulnerability at municipal level in rural Haiti using open data. in Tiepolo M., Pezzoli A., Tarchiani V. (Eds). *Renewing local planning to face climate change in the Tropics*, Cham, Springer, 103-131. doi: 10.1007/978-3-319-59096-7_6. Google Scholar citations: 4.
18. Tiepolo M. 2017. Relevance and quality of climate planning for large and medium-sized cities of the tropics. in Tiepolo M., Pezzoli A., Tarchiani V. (Eds). *Renewing local*

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- planning to face climate change in the Tropics, Cham, Springer. doi: 10.1007/978-3-319-59096-7_10. Google Scholar citations: 4.
19. Tiepolo M., Ponte E., Cristofori E. (Eds.) 2016. Planning to cope with tropical and subtropical climate change. Berlin, De Gruyter Open, 380 pp. doi: 10.1515/9783110480795. Google Scholar citations: 4.
20. Tiepolo M. 2009. Popolamento in ambiente rurale fragile insegnamenti dal caso di Keita, Niger, 1958-2007. *Storia Urbana* 122, 93-129. doi: 10.3280/SU2009-122005. Google Scholar citations: 4.
21. Tiepolo M., Bacci M., Braccio S. 2019. Multi-hazard risk assessment at community level integrating local and scientific knowledge in the Hodh Chargui, Mauritania. *Sustainability* 12(6), 5063. doi: 10.3390/su11185063. Google Scholar citations: 3.
22. Tiepolo M., Galligari A. 2021. Urban expansion – flood damage nexus: Evidence from the Dosso Region, Niger. *Land Use Policy* 108. doi: 10.1016/j.landusepol.2021.105547. Google Scholar citations: 1.
23. Tiepolo M., Belcore E., Braccio S., Issa S., Massazza G., Rosso M., Tarchiani V. 2021. Method for fluvial and pluvial flood risk assessment in rural settlements. *MethodsX*. doi: 10.1016/j.mex.2021.101463.

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