



Marco Bassani

Torino (Italy), July 22nd, 1968

109/20, strada Maddalena, 10024 - Moncalieri (TO), Italy

Associate professor

Department of Environment, Land and Infrastructures Engineering (DIATI), Politecnico di Torino

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Education

M.S. in Civil Engineering cum laude, Politecnico di Torino, Italy, May 1994.

Ph.D., University of Ancona, Italy, (discussion June 1998, diploma October 1998).

Vitæ

1995. Qualified to practice as an Engineer, Politecnico di Torino.

1999 - 2003. Research Associate at the 1st School of Engineering, Politecnico di Torino.

2002. Qualified as Associate Professor at the Parma University competition. Italian Scientific Sector ICAR/04 - Roads, Railways, Airports.

2003 - 2004. Consultant and freelance professional for the Si.T.I. Institute in the research contract for the monitoring of the construction work of the A3 Motorway Salerno – Reggio Calabria (Italy).

2004 - 2005. Professional free-lance in the field of road design.

2005. Associate Professor of Road, Railways and Airport Engineering, II School of Engineering, Politecnico di Torino (Vercelli's campus), Department of Hydraulics, Transportation and Civil Infrastructures.

2008. Confirmed in the role of Associate Professor.

2010. Appointment at the I School of Engineering, Politecnico di Torino (Torino's campus).

2012. Appointment at in the new Department of Environment, Land and Infrastructures Engineering, Politecnico di Torino, Italy.

2013 – 2014. Visiting Professor at the Department of Civil and Environmental Engineering, A. James Clark School of Engineering, University of Maryland, College Park, Maryland (US).

2015. Full Professor National Scientific Qualification (art.16 of the Italian law 30 December 2010, n.240) from 2015 to 2021.

Teaching

2015-2017. Politecnico di Torino.

Transportation Infrastructures (10 credits, undergraduate level, in Italian)

Design of Transportation Infrastructures (6 credits, graduate level, in English),

Road Safety (3 CFU, graduate level, in English).

2014-2015. Politecnico di Torino.

Transportation Infrastructures (10 credits, undergraduate level, in Italian)

Design of Transportation Infrastructures (6 credits, graduate level, in English),

2013-2014. Politecnico di Torino.

Transportation Infrastructures (10 credits, undergraduate level, in Italian)

2013-2014. University of Maryland.

Advanced Topics in Civil Engineering: traditional, alternative and innovative granular materials for pavement applications (3 credits, graduated level, code ENCE 688Q).

2012-2013. Politecnico di Torino.

Design of Transportation Infrastructures (6 credits, graduate level, in English),

Transportation Infrastructures (10 credits, undergraduate level, in Italian).

2005-2012. Politecnico di Torino. Several courses in the field of:

Transportation Engineering, Highway Safety and Geometric Design of Transportation Infrastructures at undergraduate and graduate levels, Engineering and Architecture Schools.

2002 – 2003. Politecnico di Torino, 2nd School of Engineering (Vercelli's campus)

Road, Railways and Airport Constructions II (5 credits, graduate level)

1998 – 2001. Scuola di Applicazione Militare in Torino (School of Military Studies)

Road, Railways and Airport Constructions II (10 credits, graduate level)

1995 – 2000. Politecnico di Torino, 1st School of Engineering (Torino's campus)

Transportation Infrastructures and Road, Railways and Airport constructions (undergraduate level)

2006 – 2012. Politecnico di Torino. Coordinator of the Internship curriculum in the Bachelor and Master of Science in Civil Engineering, 2nd School of Engineering (Vercelli's campus).

1999 – 2016. Politecnico di Torino. Supervisor of more than 160 bachelor and master theses.

Advanced training courses

- 2002, Engineers Association (Ordine degli Ingegneri) of Alessandria Province, Italy, “Traffic regulation and Road Design”, Alessandria, Italy.
- 2003, Master’s in Road Safety Engineering (MISS), Short course on “Materials and Techniques for the Construction and Maintenance of Road Pavements”, Palermo, Italy.
- 2005, Master Course on “Road Architecture”, 1st School of Architecture, Politecnico di Torino, Italy.
- 2005, 3rd Advanced Training Course on Research for the Scientific Sector ICAR/04. Advanced Geometric Design of Highways”. SIIV Summer School, Peschici, Italy.
- 2006, Course on: “Tecniche Innovative per la Progettazione, la Costruzione e la Manutenzione delle Pavimentazioni Stradali e Aeroportuali”, University of Genova, Italy.
- 2006, Road School “Laboratory on Road Safety”, Politecnico di Torino, Torino, Italy.
- 2015, “An inclusive/multiuser approach for the geometric design of urban streets”. Presentation at the International Design Workshop on “Linear Livability: Towards Next Generation Urban re-design - Multimodal Routes,” Politecnico di Torino, Torino, Italy. May 26 – June 5, 2015.
- 2016, Architect Association (Ordine degli Architetti, Conservatori, Pianificatori e Paesaggisti) of Turin Province, “Design of Urban Roads”, Torino, Italy.
- 2016, Study abroad of students from the University of Maryland, “Sustainable Green Infrastructure for the Urban Environment”, Torino, Italy 2016.
- 2016, SIIV (Società Italiana Infrastrutture Viarie) Summer School, “Advances in Design and Construction of Road Infrastructure”, Torino, Italy.

Research interests

Pavement analysis and design
Environmental sustainability of road pavements
Bituminous mixtures
Granular materials for road constructions
Construction and demolition waste (CDW)
Recycled and alternative granular materials
Controlled low strength materials (CLSM)
Soft ground arresting systems for aircraft
Operational effects of road geometrics
Road safety
Advanced road geometric design
Sight analysis
Driving simulation

International cooperation

Federal Highway Administration (US): dr. David Yang
University of Maryland (US): prof. P. Schonfeld, prof. C. Schwartz, prof. D. Goulias, prof. C. Cirillo
Ryerson University (Canada): prof. B. Persaud, prof. S. Easa
University of Arkansas (US): prof. E. Heymsfield
University of Canterbury (New Zeland): dr. S. Turner

Ph.D. supervision

- 2015 – 2018. **Luca Tefa**. *Advanced Mechanical Characterization of Unbound Granular Materials (both Natural and Recycled) for Road Constructions*.
- 2015 – 2018. **Lorenzo Catani**. *Operational Effects of Road Geometrics through Driving Simulation*.
- 2014 – **José Balsa Barreiro**. *Application of GNSS and GIS Systems to Transport Infrastructures. Study on Naturalistic Driving*. Supervision of International Ph.D. student in cooperation with the University of A Coruña (UDC), Spain.
- 2012 – 2014. **Giuseppe Marinelli**. *Geometric Identification and Optimization of Alignment of Transportation Infrastructures*, Scuola di Dottorato, Politecnico di Torino.
- 2009 – 2011. **Emanuele Sacchi**. *Assessing Transferability of Methods and Models in Highway Safety Analysis*, PhD School (Ryerson University, Toronto, Canada and Politecnico di Torino), co-supervisor prof. B.Persaud.

Fellowship supervision

2015. **Luca Tefa**. Politecnico di Torino. Reserch Fellowship. Title: *Experimental investigations on bio-filtering systems and materials for sustainable pervious pavements*.
2015. **Lorenzo Catani**. Politecnico di Torino. Reserch Fellowship. Title: *Standard scale of unit costs for the economical evaluation of agro-forestry-pastoral road initiatives*.

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- 2014. Giulia Saulino.** Politecnico di Torino. Reserch Fellowship. Title: *Calibration and validation of road safety predicting models.*
- 2013. Daniele Carpi.** Politecnico di Torino. Reserch Fellowship. Research title: *Risk analysis on cross-border infrastructure for the management of civil protection emergencies.*
- 2011 – 2013. Federica Bertola.** Lagrange Research Fellowship funded by ISI Foundation. Research title: *Laboratory and In-Field Investigation on New Formulations of Controlled Low-Strength Materials (CLSM) as Alternative to Unbound Granular Materials for Utilities Trenches Backfilling.*
- 2010 – 2011. Pier Paolo Riviera.** Politecnico di Torino. Research Fellowship. Research title: *Laboratory investigations on alternative granular materials embankments and road pavements.*
- 2008 – 2010. Pier Paolo Riviera.** Politecnico di Torino. Research Fellowship. Research title: *Experimental investigations on the re-use of tunnel spoils as a material for road construction.*
- 2008-2009. Luca Patria.** Politecnico di Torino. Research Fellowship. Research title: *Analysis of Corridors for the new Turin’s Eastern Beltway.*
- 2008. Dario Longo.** Politecnico di Torino. Research Fellowship. Research title: *Analysis of Corridors for the new Turin’s Eastern Beltway.*

International Internship supervision

- 2017. Muhammad Wisal Khattak.** Development of Safety Performance Functions for urban road sections and intersections in Turin. MS student from the University of Hasselt (Belgium)

Alumni academic career

- Emanuele Sacchi.** From July 2016. Assistant Professor at the Department of Civil and Geological Engineering, University of Saskatchewan, Canada
- Giuseppe Marinelli, From August 2015.** Post-Doctoral Fellowship at the Norwegian University of Science and Technology, Department of Civil and Transport Engineering, Trondheim, Norway (Supervisor prof. K. Pitera)
- Emanuele Sacchi.** From April 2012. Post-Doctoral Fellowship at the University of British Columbia, Department of Civil Engineering, Canada (Supervisor prof. T. Sayed)
- Pier Paolo Riviera.** From 2011. Assistant professor. Politecnico di Torino, Italy.

Affiliations and professional society memberships

- 1996 – present.** Member of the SIIV (Italian Society of Transportation Infrastructures).
- 2008 – 2012.** Member of the Executive Board and Treasurer, SIIV.
- 2003 – 2005.** Member of Working Group n.2 on “Trattamenti Superficiali” Ente Nazionale Italiano di Unificazione, Milan
- 2003 – 2005.** Member of Working Group n.5 on “Granular Materials” Ente Nazionale Italiano di Unificazione, Milan
- 2003 – present.** Member of the High Quality Laboratory (LAQ) “Experimental Laboratory on Recycled and Innovative Materials for the Civil Engineering Infrastructures, Politecnico di Torino
- 2011- present.** Member of the Management Board of the CIRS (Experimental Interuniversity Road and Airport Research Centre), Università Politecnica delle Marche, Ancona.
- 2005 – 2012.** Director of the Laboratory of Geotechnics and Transportation Infrastructures at the Politecnico di Torino (Vercelli campus).
- 2011 – present.** “Friend” of the “Aircraft/Airport Compatibility- AV070 Committee”, Transportation Research Board, National Research Council, Washington D.C., USA.
- 2014 – present.** “Friend” of the “Geometric Design – AFB10 Committee”, Transportation Research Board, National Research Council, Washington D.C., USA.
- 2012 – 2020.** Member of the “Operational Effects of Geometrics - AHB65 Committee”, Transportation Research Board, National Research Council, Washington D.C., USA.

Conference presentations

- 1996,** Convegno Nazionale SIIV, Ancona, Italy.
- 1999,** IX Convegno Nazionale SIIV, Cagliari, Italy.
- 1999,** 3rd European Symposium on “Performance and Durability of Bituminous Materials and Hydraulic Stabilized Composites”, Leeds, United Kingdom.
- 2002,** 4th European Symposium on Performance of Bituminous and Hydraulic Materials in Pavements, Bitmat 4, Nottingham, United Kingdom.
- 2003,** IV Congresso ed Esposizione Internazionale “Valorizzazione e Riciclaggio dei Rifiuti Industriali”, VARIREI, L’Aquila, Italy
- 2006,** XVI Convegno Nazionale SIIV, Relatore Generale, Cosenza, Italy.
- 2007,** National conference: “Il Sistema Informativo Territoriale della Provincia di Vercelli”, 2nd School of Engineering, Politecnico di Torino, Vercelli, Italy.
- 2008,** Worklab: “Sensori innovativi per l’Ingegneria Civile e Meccanica”, 2nd School of Engineering, Politecnico di Torino, Vercelli, Italy.
- 2009,** 6th International Conference on Maintenance and rehabilitation of Pavements and Technological Control MAIREPAV6, Torino, Italy.
- 2011,** 90th Annual Meeting of the Transportation Research Board, Washington, D.C., USA.

2011, Conference: "REMUCK Project", Politecnico di Torino, Torino, Italy.
2011, 3rd International Conference on Roundabout, Transportation Research Board, Carmel, Indiana, USA.
2012, 91st Annual Meeting of the Transportation Research Board, Washington, D.C., USA.
2012, 5th International SIIV Conference, Roma, Italy.
2013, 92nd Annual Meeting of the Transportation Research Board, Washington, D.C., USA.
2014, 3rd International Conference on Transportation Infrastructures, Pisa, Italia.
2015, 94th Annual Meeting of the Transportation Research Board, Washington, D.C., USA.
2016, 95th Annual Meeting of the Transportation Research Board, Washington, D.C., USA.
2017, International Congress on Transport Infrastructure and Systems, AIIT, Rome, Italy.

Reviewing activities for journals

From 2011, 29 reviews for the *Transportation Research Record*, *Journal of the Transportation Research Board of the National Academies*, Washington, D.C., USA.
2012, 1 review for the *International Journal of Lifecycle Performance Engineering*, InderScience Publisher.
2014, 1 review for the *International Journal of Sustainable Transportation (IJST)*, Taylor and Francis.
2014, 1 review for the *Journal of Rock Mechanics and Geotechnical Engineering*, Elsevier.
From 2014, 5 reviews for *Transportation Research part F*, Elsevier.
2014, 1 review for *Transportation Research part C*, Elsevier.
2015, 1 review for the *Journal of Advanced Transportation*, Wiley.
2015, 1 review for the *Journal of Survey Engineering*, American Society of Civil Engineering (ASCE).
2015, 1 review for the *Materiales de Construcción* Journal.
2016, 1 review for *Materials*, MDPI editor.
2016, 1 review for *PlosOne*.
From 2016, 3 reviews for *Transportation Letters*, Taylor and Francis.
From 2015, 2 reviews for *Accident Analysis and prevention*, Elsevier.
2016, 1 review for *Construction and Building Materials*, Elsevier.
2016, 1 review for *European Journal of Remote Sensing*.

Reviewing activities for conferences

2007, 4th International SIIV Conference "Advances in Transport Infrastructures and Stakeholders Expectations", Palermo, Italy .
2009, 6th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control MAIREPAV6, Torino, Italy.
2011 – present, International Federation of Automatic Control (IFAC) World Conferences, Austria.
2012, 5th International SIIV Conference, Roma, Italy.
2013, American Society of Civil Engineering (ASCE) 2014 Geo-Congress. Geo-Characterization and Modeling for Sustainability (Geo-Institute of ASCE).
2015, 5th International Symposium On Highway Geometric Design, Transportation Research Board, Vancouver, Canada.
2016, International Congress on Transport Infrastructure and Systems, AIIT, Rome, April 10/12, 2017.

Funded research as principal investigator (PI)

2006 – 2007. **Regione Autonoma Valle d'Aosta**
Investigations on the new National Road n.26 in Quart - Saint Christophe – Aosta (47.200 euro).
2007. **Regione Piemonte – Finpiemonte**
Investigation on the Accessibility of the Alpe Veglia (15.000 euro).
2007. **Regione Autonoma Valle d'Aosta**
Investigations on the new regional Road n.34 in Saint Christophe (11.500 euro).
2007 – 2011. **Regione Piemonte (Piedmont Region Industrial Research call 2006).**
REMUCK - Innovative Methods for the Eco-Compatible and Sustainable Recycling of Muck from Tunnel Excavation, also Considering the Potential Content of Noxious Minerals. WP6 Leader (90.600 euro).
2008. **Provincia di Torino**
Alternative Corridors for the Construction of the Turin's Eastern Beltway (69.500 euro).
2008 – 2009. **Provincia di Torino**
New Venaria Reale and Borgaro Torinese Beltway. Field and Laboratory tests (48.000 euro).
2009. **Provincia di Torino**
Corridor evaluation of the Turin's Eastern Beltway (33.300 euro).
2010 – 2014. **Buzzi Unicem s.p.a.**
Research Agreement in the field of cement based materials for road and airport constructions.
2011 – 2012. **Regione Piemonte su fondi POR-FERS 2007/2013- ASSE I.**
RE-MIX – New Generation of Controlled Low-Strength Materials (19.770 euro).
2011 – 2013. **Provincia di Torino**
TranSAFE-ALP connecting Transport Regional Network to Security and Emergency Advanced Strategy Framework of European and Alpine Regions, European Project (62.000 euro).
2012 – 2013. **Regione Autonoma Valle d'Aosta**

TranSAFE-ALP connecting Transport Regional Network to Security and Emergency Advanced Strategy Framework of European and Alpine Regions, European Project (48.300 euro).

- 2013 – 2014. Politecnico di Torino, Compagnia di SanPaolo.** Internationalization project for research, approved by Rector with the Decree n. 208, 05.24.2013 (48.000 + 7.000 euro)
- 2015. Politecnico di Torino, Compagnia di SanPaolo.** Extension of the Internationalization project for research, approved by Rector with the Decree n. 208, 05.24.2013 (8.000 euro)
- 2015. Regione Piemonte su fondi POR-FERS 2007/2013- ASSE I.**
WIN_Street. Water in street design with Environmental Engineering Technologies for Urbanized Areas (21.497 euro).
- 2015. Regione Piemonte**
Standard scale of unit costs for the economical evaluation of agro-forestry-pastoral road initiatives financed by the European Commission (21.150 euro).
- 2015. Regione Piemonte**
Design standards and technical specification for agro-forestry-pastoral road (39.750 euro).
- 2016. Regione Piemonte**
Teaching courses on the PSR 2014-2020 (7.500 euro).

Funded research as participant

- 1998 – 2000. MIUR-PRIN.**
Contribution of Pavements to Road Safety
- 1999 – 2003. Provincia di Torino, Settore Ambiente.**
Valorization, Treatment, and Reuse of Refuse Derived Plastics (RDP) in the Road Technique.
- 2000 – 2002. MIUR-PRIN.**
Fatigue failure on Pavements Containing Innovative Materials.
- 2001 – 2002. Provincia di Torino, Settore Viabilità.**
Activation of a Road Materials Laboratory for the Control of Road Pavements.
- 2001– 2003. MIUR-PRIN.**
Guidelines and Criteria for the Use of Recycled Materials in Road Constructions.
- 2002 – 2004. MIUR-PRIN.**
Physical-Mechanical Characterization of Unbound Granular Materials Through GPR Surveys.
- 2003 – 2004. CAV.TO.MI.**
Dynamic Behavior and Non-Destructive Testing of Asphaltic Sub-ballast of the High-Speed Railway Line Torino-Milano.
- 2003 – 2004. ANAS s.p.a.**
Physical-mechanical characteristics of pavement materials of the Salerno - Reggio Calabria motorway.
- 2003 – 2004. Provincia di Torino, Settore Viabilità.**
Timoteo Project - Improvement of Road Pavements: Study and Testing of Porous Asphalt.
- 2003 – 2004. Laterlite s.p.a.**
Experimental Investigation of Bituminous Mixtures Containing Expanded Clay to improve tire-pavement friction.
- 2003 – 2005. MIUR-PRIN.**
Mix Design and Laboratory/Field Control of Bituminous Mixtures Used in Innovative Pavements of Secondary Roads.
- 2003 – 2005. MIUR-PRIN.**
Alternative Procedure on the fatigue characterization of bituminous mixtures. Analysis of the Internal Energy Dissipation and Application of Principles of Damage Mechanics.
- 2007 – 2008. Provincia di Torino, Settore Viabilità.**
Investigations on the development of a Highway Design Manual and Technical Specifications for the Construction of New Roads and the Rehabilitation of Existing Ones.
- 2010 – 2013. Ministero delle Politiche Agricole.**
Re-use of Biomass Ashes – RICCO Project.
- 2015. Regione Piemonte su fondi POR-FERS 2007/2013- ASSE I.**
Pro-Vision. Prototype System for Sight Assessment in Urban Road Infrastructure in Smart Cities (29.650 euro).

Scientific awards

- March 1999.** Award for the best paper presented at the 3rd European Symposium on "Performance and Durability of Bituminous Materials and Hydraulic Stabilized Composites" for the paper titled: "Improved Use of the Repeated Load Indirect Tensile Test", Leeds, UK.

Awards to M.S. thesis

- October 2011.** Emanuele Sacchi: winner of the competition dedicated to the "Victims of the Linate Air Disaster occurred the 8th of October, 2001". Thesis title: "Experimental Investigation on the Performances of Materials for Aircraft Arresting Bed", Municipality of Milan, Italy.
- June 2011.** Ottavio Preda: winner of the competition "MATISA" Scholarship for the best Italian thesis in Engineering on a subject related to railway high-speed infrastructure, banished by CIFI in 2010. Thesis title: "Railroad Track Geometry Control in Construction & Maintenance Phases".

Books, chapters, encyclopedias

1. Felice, A. Santagata; Marco, Bassani; et al. (2016)
Strade - Teoria e tecnica delle costruzioni stradali
Pearson, Torino, vol. 1 e 2, pp. 1-1441. ISBN 9788891903044
2. Bassani M., Berta M. (2011)
Alta Velocità Ferroviaria (in Italian, *High-Speed Railways*).
In: Grande Dizionario Enciclopedico DeAgostini, Appendice 2011. UTET, Torino, pp. 75-84, ISBN 9788802084381.
3. Bassani M.; Berta M. (2007)
Infrastrutture viarie (in Italian, *Transportation Infrastructures*).
In: Grande Dizionario Enciclopedico DeAgostini, Appendice 2008. UTET, TORINO, pp. 238-247, ISBN 9788802078878.

Papers in refereed journals

1. Catani L., Tremblay, J-M., Bassani M., Cirillo C. (2017)
A Methodology to Back-calculate Individual Speed Data Originally Aggregated by Road Detectors
In: *Transportation Research Record: Journal of the Transportation Research Board*. No. 2659, in press, doi: [10.3141/2659-01](https://doi.org/10.3141/2659-01), ISSN 0361-1981.
2. Marinelli G., Bassani M., Piras M., Lingua A. (2017)
Mobile Mapping Systems and Spatial Data Collection Strategies Assessment in the Identification of Horizontal Alignment of Highways
In: *Transportation Research Part C: Emerging Technologies*. Vol. 79 pp. 257-273, doi: [10.1016/j.trc.2017.03.020](https://doi.org/10.1016/j.trc.2017.03.020), ISSN: 0968-090X.
3. Mussone, L., Bassani M., Masci, P. (2017)
Analysis of Factors Affecting the Severity of Crashes in Urban Road Intersections
In: *Accident Analysis and Prevention*. Vol. 103 pp. 112-122, doi: [10.1016/j.aap.2017.04.007](https://doi.org/10.1016/j.aap.2017.04.007), ISSN: 0001-4575.
4. Bassani M., Bertola F., Canonico F., Bianchi M., Marian M. (2017)
Environmental Assessment and Geomechanical Properties of Controlled Low-Strength Materials with Recycled and Alternative Components for Cements and Aggregates
In: *Cement and Concrete Composites*. Vol. 80 pp. 143-156, doi: [10.1016/j.cemconcomp.2017.03.013](https://doi.org/10.1016/j.cemconcomp.2017.03.013), ISSN: 0958-9465.
5. Cerni G., Bassani M., (2017)
Naturalistic Driving Data Collection to Investigate into the Effects of Road Geometrics on Track Behaviour
In: *Transportation Research Part C: Emerging Technologies*. Vol. 77 pp. 1-15, doi: [10.1016/j.trc.2017.01.012](https://doi.org/10.1016/j.trc.2017.01.012), ISSN: 0968-090X.
6. Bassani, Marco; Riviera, Pier Paolo; Tefa, Luca (2016)
Short-Term and Long-Term Effects of Cement Kiln Dust Stabilization of Construction and Demolition Waste
In: *Journal of Materials in Civil Engineering*. Vol. 29(5) pp. 04016286-1-04016286-11, doi: [10.1061/\(ASCE\)MT.1943-5533.0001797](https://doi.org/10.1061/(ASCE)MT.1943-5533.0001797), ISSN: 0899-1561.
7. Bassani, Marco; Marinelli, Giuseppe; Piras, Marco (2016)
Identification of Horizontal Circular Arc from Spatial Data Sources
In: *Journal of Surveying Engineering*, vol. 142(4), 04016013-1-04016013-14, doi: [10.1061/\(ASCE\)SU.1943-5428.0000186](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000186), ISSN: 0733-9453
8. Bassani, Marco; Catani, Lorenzo; Cirillo, Cinzia; Mutani, Guglielmina (2016)
Night-time and daytime operating speed distribution in urban arterials.
In: *Transportation Research Part F: Traffic Psychology and Behaviour*. Vol.42 pp. 56-69, doi: [10.1016/j.trf.2016.06.020](https://doi.org/10.1016/j.trf.2016.06.020), ISSN: 1369-8478
9. Bassani, Marco; Cirillo, Cinzia; Molinari, Serena; Tremblay, Jean-Michel (2016)
Random Effect Models to Predict Operating Speed Distribution on Rural Two-Lane Highways.
In: *Journal of Transportation Engineering*, vol. 142 n.6, 04016019-1-04016019-11, doi: [10.1061/\(ASCE\)TE.1943-5436.0000844](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000844), ISSN: 0733-947X.
10. Bassani M., Khosravifar S., Goulias D., Schwartz C.W. (2015)

Long-Term Resilient and Permanent Deformation Behavior of Controlled Low Strength Materials for Pavement Applications.

In: *Transportation Geotechnics*, vol. 2 n. 1, pp. 108-118, Elsevier, doi: [10.1016/j.trgeo.2014.12.001](https://doi.org/10.1016/j.trgeo.2014.12.001), ISSN: 2214-3912.

11. Bassani M., Dalmazzo D., Marinelli G., Cirillo C. (2014)

The Effects of Road Geometrics and Traffic Regulations on Driver-Preferred Speeds in Northern Italy. An Exploratory Analysis.

In: *Transportation Research Part F: Traffic Psychology and Behaviour*, Elsevier, vol. 25, pp. 10-26, doi: [0.1016/j.trf.2014.04.019](https://doi.org/10.1016/j.trf.2014.04.019), ISSN: 1369-8478

12. Riviera P.P.; Bellopede R.; Marini P., Bassani M. (2014)

Performance-Based Re-Use of Tunnel Mucks as Granular Materials for Subgrade and Subbase Formation.

In: *Tunneling and Underground Space Technology*, Elsevier, vol. 40, 160-173, doi: [10.1016/j.tust.2013.10.002](https://doi.org/10.1016/j.tust.2013.10.002), ISSN 0886-7798

13. Melotti R., Santagata E., Bassani M., Salvo M., Rizzo S. (2013)

A Preliminary Investigation into the Physical and Chemical Properties of Biomass Ashes Used as Aggregate Fillers for Bituminous Mixtures.

In: *Waste Management*, Elsevier, vol. 33(9), 1906-1917, doi: [10.1016/j.wasman.2013.05.015](https://doi.org/10.1016/j.wasman.2013.05.015) - ISSN 0956-053X

14. Bertola F., Bassani M., Canonico F., Bianchi M. (2013)

Long-Term Investigation into the Use of New Rapid Hardening Cement for Controlled Low-Strength Materials to Be Employed in Pavement Applications.

In: *Transportation Research Record*, vol. 2363, 77-87, doi: [10.3141/2363-09](https://doi.org/10.3141/2363-09), ISSN 0361-1981

15. Mussone L., Matteucci M., Bassani M., Rizzi D. (2013)

An Innovative Method for the Analysis of Vehicle Movements in Roundabouts Based on Image Processing

In: *Journal of Advanced Transportation*, vol. 47(6), 581-594, doi: [10.1002/atr.184](https://doi.org/10.1002/atr.184), ISSN 0197-6729

16. Yongsheng C., Persaud B., Sacchi E., Bassani M. (2013)

Investigation of Models for Relating Roundabout Safety to Predicted Speed.

In: *Accident Analysis and Prevention*, Elsevier, vol. 50, 196-203. doi: [10.1016/j.aap.2012.04.011](https://doi.org/10.1016/j.aap.2012.04.011), ISSN 0001-4575

17. Sacchi E., Persaud B., Bassani M. (2012)

Assessing International Transferability of the Highway Safety Manual Crash Prediction Algorithm and its Components.

In: *Transportation Research Record*, vol. 2279, 90-98. doi: [10.3141/2279-11](https://doi.org/10.3141/2279-11), ISSN 0361-1981.

18. Bassani M., Sacchi E. (2012)

Calibration to Local Conditions of Geometry-Based Operating Speed Models for Urban Arterials and Collectors.

In: *Procedia: Social & Behavioral Sciences*, Elsevier, vol. 53, pp. 822-833. doi: [10.1016/j.sbspro.2012.09.931](https://doi.org/10.1016/j.sbspro.2012.09.931), ISSN 1877-0428

19. Bassani M., Mutani G. (2012)

Effects of Environmental Lighting Conditions on Operating Speeds on Urban Arterials.

In: *Transportation Research Record*, vol. 2298, pp. 78-87. doi: [10.3141/2298-09](https://doi.org/10.3141/2298-09), ISSN 0361-1981

20. Bassani M., Sacchi E., Canonico F. (2012)

Performance Prediction for Innovative Crushable Material used in Aircraft Arrestor Beds.

In: *Journal of Materials in Civil Engineering*, American Society of Civil Engineering, vol. 24 (6), 725-734. doi: [10.1061/\(ASCE\)MT.1943-5533.0000425](https://doi.org/10.1061/(ASCE)MT.1943-5533.0000425), ISSN 0899-1561

21. Sacchi E., Bassani M., Persaud B. (2011)

Comparison of Safety Performance Models for Urban Roundabouts in Italy and other Countries.

In: *Transportation Research Record*, vol. 2265, 253-259. doi: [10.3141/2265-28](https://doi.org/10.3141/2265-28), ISSN 0361-1981

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8. Bassani M., Patria L., Longo D. (2008-2009)
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Professional experiences

-
- November 1997 – March 1998. Italian A21 (E70) Motorway. Preliminary and definitive project for the construction of the 3rd lane (Santena-Villanova section, 4 km).** Consultant for geometric road design and cost analysis (SINA SpA).
 - November 1997 – July 2002. Italian A21 (E70) Motorway. Preliminary, definitive and executive project for the construction of the Asti Est interchange.** Consultant for geometric and functional design of infrastructures (SINA SpA).
 - September 1999 – January 2001. Italian A21 (E70) Motorway. Preliminary and definitive project for the construction of the 3rd lane (Villanova-Piacenza section, 150 km).** Consultant for geometric and functional design of infrastructures (SINA SpA).
 - December 1999 – July 2000. Italian A21 (E70) Motorway. Preliminary project for the construction of the Asti Ovest interchange.** Consultant for geometric and functional design of infrastructures (SINA SpA).
 - September 2000 – July 2002. Italian A10 (E80) Motorway. Definitive and executive project for the construction of the Borghetto Santo Spirito interchange.** Consultant for geometric road design and cost analysis (SINA SpA).
 - October 2000 – 2005. Municipality of Borgaro T.se. Construction of a local urban road.** Construction manager - supervisor.
 - March 2001 - July 2002. Preliminary project for the construction of the new road network around the Juventus Training Center (Municipalities of Nichelino and Vinovo).** Consultant for geometric and functional design of infrastructures (Juventus SpA).
 - November 2001 – March 2003. Viculungo Outlet. Preliminary and definitive project for the construction of the new road network.** Consultant for geometric and functional design of infrastructures.
 - November 2002 – 2005. SAGAT Turin Airport. Executive project of the plumbing and electrical systems of the new apron.** Structural designer of well and tunnels under the apron pavement (COGEFA SpA).
 - June 2003. Turin Milan High Speed Railway. Track dynamic behavior.** Consultant and technical advisor (COGEFA SpA).

July 2003 – September 2003. SAGAT Turin Airport. Executive design of the metal structural work of the technical rooms in the new Sandro Pertini Airport. Consultant for the structural design.

September – October 2003. Italian A32 (E70) Motorway. Executive project for the construction of the 4th lane (Savoulx – Bardonecchia section, 8 km). Consultant for the road safety analysis (SITAF SpA).

December 2003. Italian A32 (E70) Motorway. Executive project for the construction of the Bardonecchia interchange. Consultant for the road safety analysis (SITAF SpA).

July 2004. Italian A32 (E70) Motorway. Executive project for the construction of the 4th lane (Savoulx – Bardonecchia section, 8 km). Consultant for the pavement analysis and design (SITAF SpA).

September 2004 – December 2004. Italian A4 (E64) Motorway. Executive project for the construction of the new motorway. Consultant for the pavement analysis and design (COGEFA SpA).

June 2004 – March 2005. Italian A14 (E55) Motorway. Preliminary and definitive project for the construction of the 3rd lane (Ancona nord – Ancona sud section). Consultant for geometric and functional design of infrastructures (SPEA SpA).

October 2004 – March 2005. Sabina Industrial Park. Definitive project for the construction of road network. Consultant for road geometric design (ADANTI SpA).

July 2004 – October 2005. Italian A14 (E55), A1 (E35), A9 (E35) Motorways. Definitive and executive project for the construction of new pavements. Consultant for the pavement analysis and design (SPEA SpA).

December 2004 – March 2005. Preliminary project for the construction of the multilane highway and interchanges on national road SS16 (Ancona centro – Ancona Porto section). Consultant for geometric and functional design of infrastructures (ANAS SpA).

February 2005 – August 2005. Executive project for the construction of the national road SS189 (Castronuovo di Sicilia section). Consultant for geometric and functional design of infrastructures (ANAS SpA).

December 2007 – April 2008. Feasibility study for the Aosta Valley Centre of Safe Driving. Consultant for the geometric design of the test track (Massai Design SAS).

May 2010. Ideas Competition of the Turin City: Requalification of the of North and North East areas in Turin: "Sempione-Gottardo". Consultant of the design team selected as the winner of the competition.

May 2010 – November 2010. National Road SS219. Reuse of tunnel muck from the "Bocciol" tunnel. Consultant (SCR Piemonte SpA).

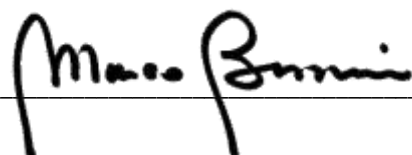
February 2011 – August 2012. Colombè Industrial Centre. Consultant for the pavement analysis and design.

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000)

Il sottoscritto Marco BASSANI, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel CV, corrispondono a verità.

Data, 1 agosto 2017

Firma _____



PRIVACY

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali.

Data, 1 agosto 2017

Firma _____

