

CURRICULUM VITAE PIER PAOLO RIVIERA

PERSONAL DATA

Pier Paolo Riviera was born in Savigliano (Cuneo), August 11th, 1976.

EDUCATION

2007: PhD degree in the V cycle New Series of the Doctoral School in "Structure and Infrastructures" (administration based in the Polytechnic University of Marche, Ancona, Italy). Thesis: "Experimental investigation and rheological modelling of workability of hot mix asphalt" (tutor: prof. Ezio Santagata)

2002: M.S. in Civil Engineering, Politecnico di Torino, Turin, Italy. Thesis: "Experimental investigation on Controlled Low Strength Materials in road construction. Laboratory testing and full-scale investigations" (tutors: prof. Ezio Santagata).

ACADEMIC EXPERIENCE AND CAREER

2013-current: Lecturer - Turin Polytechnical University in Tashkent (TTPU), Tashkent, Uzbekistan

2011-current: Assistant Professor, Politecnico di Torino, Torino, Italy

2008-2011: Research Associate in the Department of Hydraulics, Transportation and Civil Infrastructures of the Politecnico di Torino, specifically dedicated to the project entitled "REMUCK - Innovative methods for the eco-compatible and sustainable recycling of muck from tunnel excavation, also considering the potential content of noxious minerals".

TEACHING ACTIVITIES

Courses

2013-current: "Transportation Systems and Infrastructures" - Turin Polytechnical University in Tashkent (TTPU), Tashkent, Uzbekistan

2006-current: "Construction of Roads, Railways and Airports" – Politecnico di Torino, Torino, Italy

2012-2014: "Road Infrastructures" – Politecnico di Torino, Torino, Italy

2011-2012: "Laboratory of Transportation Infrastructures" – Politecnico di Torino, Torino, Italy

2010-2011: "Design of Transportation Infrastructures" – Politecnico di Torino, Torino, Italy

2010-2011: "Road Constructions" – Politecnico di Torino, Torino, Italy

2007-2012: "Fundamentals of Transportation Infrastructures" – Politecnico di Torino, Torino, Italy

2006-2008: "Fundamentals of Transportation Infrastructures" – Università degli Studi di Modena e Reggio Emilia, Modena, Italy

Thesis

Supervisor and co-supervisor of more than 110 bachelor and master theses in the field of Civil Engineering, Politecnico di Torino and Turin Polytechnical University in Tashkent

PhD SUPERVISOR

Eldho Avirachan Choorackal: PhD program in Civil Engineering, Doctoral School of Politecnico di Torino

Leonardo Urbano: PhD program in Civil Engineering, Doctoral School of Politecnico di Torino

ACADEMIC ROLES

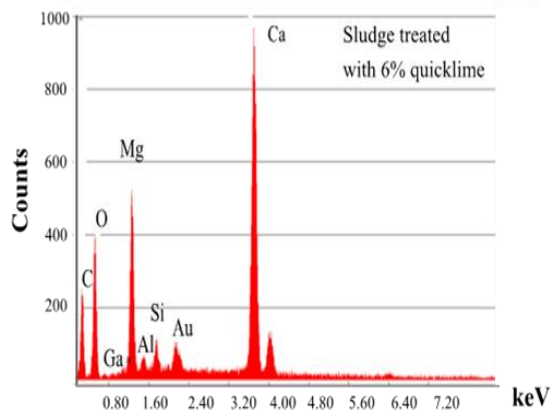
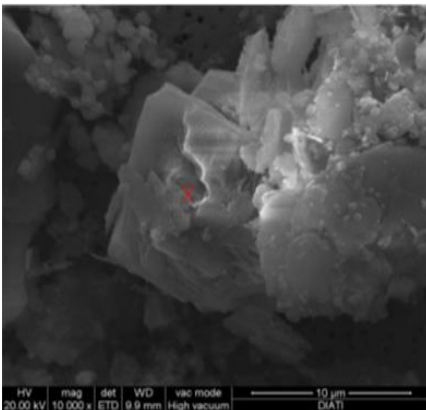
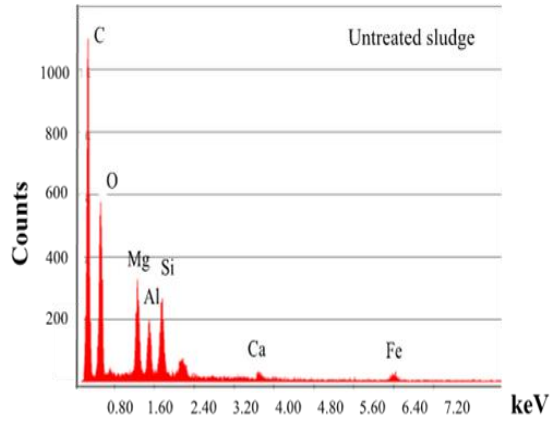
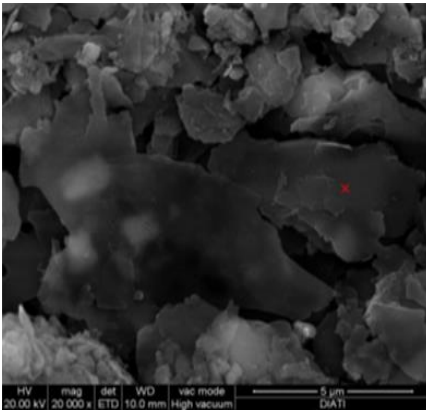
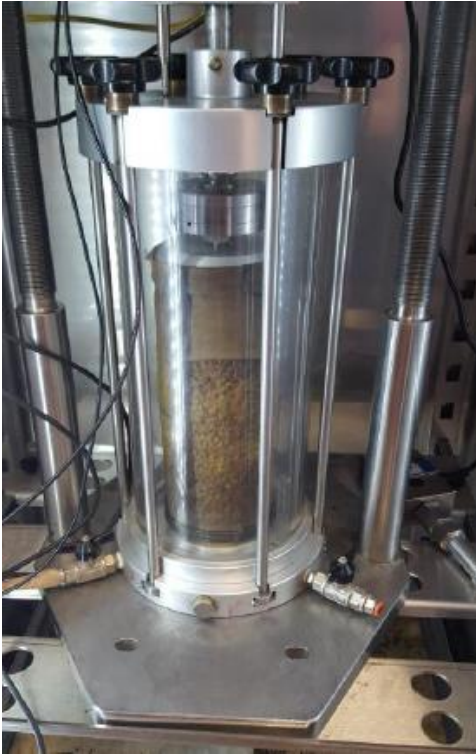
2012-current: Supervisor of academic careers of the College of Civil Engineering, Politecnico di Torino

2012-2015: Member of Bibliometric Committee of the Department of Environment, Land and Infrastructure Engineering (DIATI) of the Politecnico di Torino

AREA OF EXPERTISE

Characterization and modelling of pavement materials (soil, unbound granular material, cementitious materials, asphalt concrete, bitumen)





Design, construction and maintenance of pavements for transportation infrastructures



Evaluation of field performances of pavement



SCIENTIFIC AFFILIATION

Member of SIIV (Italian Society of Transportation Infrastructures)

Member of CIRS (Experimental Interuniversity Road and Airport Research Center)

SEMINARS TALKS AND PRESENTATIONS (SELECTION)

Oral presentation: " Laboratory tests for the characterization of cold asphalt patching mixtures", 9th International Conference on Maintenance and Rehabilitation of Pavements, Zurich, Switzerland (July 1-3, 2020)

Oral presentation: "Evaluation of rutting properties of bituminous binders by means of single shear creep-recovery (SSCR) test and correlation with mixture performance ", 8th International RILEM SIB Symposium - "Testing and Characterization of Sustainable & Innovative Bituminous Materials", Ancona, Italia (October 7-9, 2015)

Oral presentation: "Evaluation of rutting resistance of rubberized gap-graded asphalt mixtures", 6th International Conference "Bituminous Mixtures and Pavements" - 6th ICONFBMP, Thessaloniki, Greece (June 10-12, 2015)

Invited talk: "Volumetric and mechanical characterization of asphalt concrete containing crumb rubber". Workshop on the Possible Uses of Crumb Rubber in Asphalt Pavement, Torino, Italia (February 7, 2014)

Invited talk: "The reuse of tunnel muck in embankments, subgrade and subbase, and for the production of aggregate for asphalt concrete", REMUCK Project Congress, Torino, Italia (April 13, 2011)

Oral presentation: "Laboratory mix design and performance assessment of bituminous mixtures containing recycled plastics", VIth International Congress "Valorisation and Recycling of Industrial Waste" - VARIEREI 2007, L'Aquila, Italia (June 27-29, 2007)

ORGANIZING AND SCIENTIFIC COMMITTEES

Member of the Organizing Committee of the XIV SIIV Summer School "Advances in Design and Construction of Road Infrastructures", Turin, Italy, 13-16 September 2016

Member of the Organizing Committee of the 6th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control, Turin, Italy, 8-10 July 2009

AWARDS AND PRIZES

2018: Selected paper presented at 6th International Conference on Sustainable Solid Waste Management. Paper entitled " Reuse of recycled asphalt pavement and mineral sludges in fluidized thermal backfills " recommended by the paper evaluation committee of the conference for being submitted to the Waste & Biomass Valorization journal

2017: Individual grant for basic research (Italian Ministry of Education, University and Research)

2015: Selected paper presented at International RILEM Symposium SIB2015. Paper entitled "Evaluation of rutting properties of bituminous binders by means of single shear creep-recovery (SSCR) tests and correlation with mixture performance" recommended by the paper evaluation

committee of the conference for being submitted to the International Journal of Pavement Research and Technology (IJPRT)

2014: Scientific productivity prize (Politecnico di Torino)

2009: "Best paper award - Innovative Materials and Pavements". Paper entitled "Experimental Study on Cold Micro-Surfacing with Crumb Rubber" (Canestrari, F., Pasquini, E., Ferrotti, G., Riviera, P.P.) presented at the "Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control", 8-10 July 2009, Torino, Italy, MAIREPAV6

FUNDED RESEARCH PROJECTS AS PRINCIPAL INVESTIGATOR

2019: "Performance-related assessment of bituminous binders extracted from in-service pavement sections" (contratto in attesa di numero di protocollo dipartimentale). Research contract with ANAS Qatar Branch. Role: supervisor of the experimental activities (lab), data processing.

2018: "Experimental investigation on innovative materials with superior performances to be employed in road and airport pavements". Research contract with BRILLADA VITTORIO & C. Role: supervisor of the experimental activities (field and lab), data processing

2018: "Experimental investigation on self-compacting flowable cementitious mixtures". Research contract with TUNNEL FREJUS SCARL. Role: supervisor of the experimental activities (field and lab), data processing

FUNDED RESEARCH PROJECTS AS PARTICIPANT (SELECTION)

Involved in more than 50 research projects related with pavement materials, a short selection of which is shown below:

2017-2018: "Experimental investigation on materials to use for the construction of the new Frejus Tunnel". Research contract with TUNNEL FREJUS SCARL. Role: supervisor of experimental activities (lab and field), coordinator of data processing

2017: "Experimental investigation on wearing course mixtures". Research contract with CITTÀ METROPOLITANA DI TORINO. Role: supervisor of experimental activities (lab and field)

2017: "Thermal properties of cementitious mixtures for backfilling applications in road tunnel". Research contract with SITAF S.p.A. Role: supervisor of experimental activities (lab and field), coordinator of data processing

2017: "Experimental investigation in asphalt concrete". Research contract with SITAF S.p.A. Role: supervisor of experimental activities (lab and field), coordinator of data processing

2016: "Field and laboratory investigation related to the maintenance activities of the runway strip of the International Airport Napoli-Capodichino". Research contract with GE.S.A.C. S.p.A. Role: experimental activities (lab and field), data processing

2015-2016: "TYREC4LIFE PLUS_Development and implementation of innovative and sustainable technologies for the use of scrap tyre rubber in road pavements". Funded by Italian Ministry of the

Environment and Protection of Land and Sea 2015: "RP2_Reuse of paint sludge in road Pavements". Funded by FCA Group. Fiat Group Automobiles

2015: "Performance-related mix design of bituminous mixtures for proving grounds". Research contract with IMP s.r.l. Role: supervisor of experimental activities (lab and field), data processing

2015: "RP2_Reuse of paint sludge in road Pavements". Funded by FCA Group. Fiat Group Automobiles

2012-2014: "POLIPNEUS-Science and technology of bituminous binders and mixtures containing crumb rubber". Research contract with ECOPNEUS SCPA. Role: experimental activities (lab and field), data processing

2011-2015: "TYREC4LIFE_Development and implementation of innovative and sustainable technologies for the use of scrap tyre rubber in road pavements". Funded by European Union - LIFE+ Grant

2011-2013: "Innovative road pavements characterized by high environmental sustainability. Design, construction, field monitoring and modeling of full-scale field sections containing recycled materials". Funded by Italian Ministry of Education, University and Research – PRIN 2009

NON-ACADEMIC WORKS

2011: "Analysis of asphalt concrete mixtures laid during the maintenance operations of the International Airport of Torino". Client: Brillada Vittorio & C. S.n.c. Role: supervisor of maintenance works

2003-2005: "Design and execution of monitoring activities for the evaluation of volumetric and mechanical properties of materials collected in the Salerno-Reggio Calabria motorway". Client: Si.T.I. (Istituto Superiore sui Sistemi Territoriali per l'innovazione), Torino. Role: execution of laboratory and field activities, data processing

REFEREE

- Journal of Traffic and Transportation Engineering (JTTE)
- International Journal of Research on Engineering Structures & Materials (RESM)
- ASTM International Journal of Testing and Evaluation (JTE)
- Advances in Concrete Construction, An International Journal (ACC)
- International Journal of Sustainable Built Environment (IJSBE)
- Construction and Building Materials (CONBUILDMAT)
- Advancements in Civil Engineering & Technology (ACET)
- International Journal of Pavement Engineering (IJPE)
- Applied Sciences (AS)
- Materials
- Journal of Materials in Civil Engineering (JMCE)
- 4th International SIIV Congress - Palermo, Italy September 12th-14th 2007
- 8th International RILEM SIB Symposium - Ancona, Italy October 7th-9th 2015)

EXTERNAL RESPONSABILITIES

- Member of the Advisory Board of the International Journal of Research on Engineering Structures & Materials (RESM) (2016-2017)
- Associate Editors of Advancements in Civil Engineering & Technology (from 2019)
- Member of the Reviewer Board of Applied Sciences (from 2020)

PUBBLICATIONS

https://iris.polito.it/cris/rp/rp22768?sort_byall=2&orderall=DESC&open=all