EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION	
Name	Mauriello Filomena
Telephone	+
	+3
E-mail	filomena.mauriello@unina.it
web	https://www.docenti.unina.it/filomena.mauriello
Nationality	Italian
Date of birth	
WORK EXPERIENCE	
• Dates (from – to)	FROM 8 JULY 2019 TO TODAY
• Name and address of employer	Naples Federico II
 Occupation or position held 	Assistant professor
 Main activities and 	The research activity aims to define a technological ecosystem favorable to
responsibilities	interoperability between road infrastructures and new generation vehicles for the
	identification of surrogate security measures, detectable in virtual reality, relating to
	the introduction of connected vehicles and autonomous vehicles; virtual reality
	simulation of scenarios in which connected vehicles, vehicles with different levels of
	automation and traditional vehicles with different levels of criticality coexist;
	models and surrogate security measures, for the definition of the most favorable
	technological ecosystem for interoperability between infrastructures and next-
	generation vehicles
• Dates (from – to)	FROM 16 SEPTEMBER 2019 TO 18 DECEMBER 2019
Name and address of employer	Transportation Research Institute (IMOB) of Hasselt University, Belgium,
 Occupation or position held 	Visiting professor
 Main activities and 	I coordinated and assisted a team of students in setting up and carrying out a driving
responsibilities	simulator study on the effectiveness of an Advance Driver Assistance System (ADAS)
 Dates (from – to) 	FROM 17 DECEMBER 2018 TO 10 JUNE 2019
 Name and address of employer 	Ce.S.M.A. Advanced Metrological and Technological Services Center - University of
	Naples Federico II
• Type of business or sector	University
• Occupation or position held	Environment Project
 Main activities and 	Analysis of functional requirements and related modeling of these in a simulation box
responsibilities	dedicated to testing Connected and Autonomous Vehicle and Cooperative-Intelligent
	Transportation Systems technologies with particular reference to the aspects of modeling the driver and (or connection of the simulation have to a driving simulator
Dogo 1 Curriquium vitas -f	modeling the univer and y or connection of the simulation box to a univing simulator.
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• Type of business or sector Occupation or position held

Name and address of employer

Main activities and

• Dates (from – to)

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 Main activities and responsibilities

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 Main activities and responsibilities

• Dates (from – to)

Name and address of employer

• Occupation or position held

- Occupation or position held

responsibilities

• Main activities and

- Type of business or sector
- Occupation or position held

 Name and address of employer Réseau Méditerranéen des Ecoles d'Ingénieurs Technopôle de Château-Gombert 38, rue Frédéric Joliot-Curie Marseille

Marseille, F13451, FRANCE

Naples Federico II

University

Cooperation

Administrative and financial management; accounting and preparation of financial reporting documents.

Department of Civil, Construction and Environmental Engineering of the University of

Scholarship - Research activity within MISS - Integrated Measures for Road Safety Main tasks and responsibilities Study for Integrated Road Safety Measures for the

reduction of road accidents for the road network of the Metropolitan City of Naples

FROM 1 AUGUST 2016 TO 31 OCTOBER 2016

FROM 11 DECEMBER 2017 TO 11 MARCH 2018

FROM 20 JANUARY 2014 TO 30 NOVEMBER 2016

The Department of Civil, Architectural and Environmental Engineering (Dicea) University of Napoli Federico II

Scholarship for research activities under the "PON 03PE 00159 3" App4Safety "Project - Innovative Methodologies and Technologies for an integrated approach to vehicle safety

Researcher for the definition of a methodology to evaluate the effects of solving an integrated approach to vehicle safety, to be used for the evaluation of optimal solutions

FROM 1 AUGUST 2015 TO 31 OCTOBER 2015

The Department of Civil, Architectural and Environmental Engineering (Dicea) University of Napoli Federico II

Scholarship for research activities under the "PON 03PE 00159 3" App4Safety "Project - Innovative Methodologies and Technologies for an integrated approach to vehicle safety

Researcher for the definition of a methodology to evaluate the effects of solving an integrated approach to vehicle safety. The objective of the work was to define an analysis methodology for road accident databases, in order to group them according to similarities (common events) measurable by means of indicators and to associate each grouping with an accident scenario. 32 collision scenarios were identified using the Classification and Regression Trees (CART). The segmentation process was finalized to describe the dependence of the severity of the accident and the type of incident from a set of explanatory variables both for accidents with an isolated vehicle and for crashes between the vehicle, for a total of four classification

FROM 1 MAY 2015 TO 31 JULY 2015

Department of Civil, Environmental, Land, Construction and Chemistry (DICATECh) of Politecnico di Bari

University

Coordinated and continuous collaboration

Researcher for "Statistical analysis and elaboration of data for road safety experimentation" within the PROGECOL Project.

The research activity concerned two research issues: 1. Study of driving behavior; 2. Analysis of accidents. In the first, the influence of familiar pathways on driving behavior in terms of speed was estimated by estimating different models of speed as the familiarity of the road changes. In the second, logistic regression models were estimated to assess which factors influence road accidents occurring on family driving paths.

• Dates (from – to)

Name and address of employer

• Type of business or sector

Occupation or position held

• Main activities and responsibilities

• Dates (from – to)

• Name and address of employer

• Type of business or sector

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• Dates (from – to) • Name and address of employer • Type of business or sector

• Occupation or position held • Main activities and responsibilities

• Dates (from – to) • Name and address of employer Occupation or position held • Main activities and responsibilities

FROM 1 FEBRUARY 2015 TO 31 MAY 2015

TEST S.c.a r.l

Regional Center of Transportation Competence

Coordinated and continuous collaboration

The research activity concerned the identification of estimation models that describe the behavior of users in the railway infrastructure, comparing models of linear regressions and generalized linear regression models, hypothesizing different distribution functions.

FROM JULY TO NOVEMBER 2013

The Department of Civil, Architectural and Environmental Engineering (Dicea) University of Napoli Federico II

Research Fellow - INSIST/DOTTORI DI RICERCA-ESPERTI/13.

The research activity was carried out within the Road Safety project (SISTRA), within the framework of the INSIST PROJECT "Technological Innovation in Transport Systems" POR Campania FSE 2007/2013, concerned the analysis of behavioral data of guide with advanced statistical techniques.

The main objective of the study was to evaluate the real behavior of drivers on the road, to estimate models of speed, acceleration and deceleration suited to the Italian national context. To this end, experiments were carried out both on the road and in a simulated environment. An important point in carrying out the research activity was the identification of analysis methodologies that allowed us to study the driving behaviors in their complexity. Nonparametric regression models in this sense have been a valuable help. In particular, these techniques, in their exploratory nature, have allowed us to study how the stimuli, given by the external environment, have influenced the choices of driving, to evaluate the characteristics that have united the different driving scenarios.

SEPTEMBER 2012

Command of the radiomobile nucleus of the carabinieri of the provincial command of Naples

Cooperation

Collaboration in the drafting of the road safety plan of the province of Naples

FROM AUGUST 2011 TO JANUARY 2012

The Department of Civil, Architectural and Environmental Engineering (Dicea) University of Napoli Federico II

Occasional performance

Support for the verification of the drawings of the executive project for the construction of sections B1, B2, C, D, and of the compensation works of the Dalmine -Como - Varese - Valico del Gaggiolo motorway connection and works connected to it

FROM 14 MAY 2011 TO 17 MAY 2011

RINA Services S.p.A. - Via Corsica, 12, - 16128 Genoa

Occasional performance

Support to RINA technicians for inspections on the highway: A30 from Km 19+946 at Km 36+246; and A1 from Km 678+983 at Km 701+107 and from Km 531+000 at Km 546+ 240.

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Name and address of employer

 Dates (from – to) 	FROM SEPTEMBER 2011 TO JANUARY 2012
 Name and address of employer 	Department of Transportation Engineering "L.Tocchetti" - Federico II University - Via Claudio, 21 - 80125 Naples
 Type of business or sector 	University of Napoli Federico II
 Occupation or position held 	Occasional performance
 Main activities and responsibilities 	Inspection activity in the verification of compliance with the current legislation, for the purposes of validation, of the plans of the executive project of the modernization and adaptation works to the cat. B of DM 5.11.2001 from km 44 + 000 to the junction with A19 - SS640 of Porto Empedocle with reference to the technical aspects related to road safety areas, road pavements, geometry and track elements, safety barriers and signs
 Dates (from – to) 	FROM NOVEMBER 2010 TO MARCH 2011
 Name and address of employer 	ICS CENTRO SPERIMENTALE DI INGEGNERIA,
• Type of husiness or sector	Via Terracina, 357 - 80125 Napoli (NA) - tel.: 0815936649
• Occupation or position hold	
Occupation of position held Main activities and	Consultant for the verification for the nurnose of validating the definitive project of
responsibilities	the crossing of the Strait of Messina and of the related road and rail links on the Calabria and Sicily sides
 Dates (from – to) 	FROM 20 JUNE 2009 TO 20 JULY 2009
 Name and address of employer 	Department of Transportation Engineering "L.Tocchetti" - Federico II University - Via Claudio, 21 - 80125 Naples
 Type of business or sector 	University of Napoli Federico II
 Occupation or position held 	Occasional performance
 Main activities and responsibilities 	Study to support the definition of the speed limits of the A3 Napoli Salerno motorway section, for the purpose of installing the Safety Tutor system
 Dates (from – to) 	20 September 2008 - 21 December 2008
Name and address of employer	"Center for Road Safety" Research Center West Lafayette Indiana - prof. Andrew P. Tarko
 Type of business or sector 	University of PURDUE
 Occupation or position held 	Researcher
 Main activities and responsibilities 	Security analysis of the Super I-70 Interstate of Indiana, USA. Multivariate analysis of accident data in the period before and after Interstate reconstruction, in order to identify risk factors for work areas and alternative routes.
	Study of the RSIT_2 software, Road Safety Investigation Tool 2, in order to investigate sites characterized by greater risk of accidents through interactive checklists.
EDUCATION AND TRAINING	
	April 8, 2014
 Name and type of organisation providing education and training 	PhD in "Statistics" - University of Napoli Federico II
• Thesis:	Thesis: Resampling Techniques for Unbalanced Datasets. A Methodological Proposal

January 21, 2011

• Name and type of organisation providing education and training

PhD in "Engineering of Hydraulic Transport and Territorial Systems", address of Road Infrastructures and Transport Systems - University of Napoli Federico II

for Datasets with Numerical and Categorical Predictors

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• Thesis:	Sampling techniques for datasets with unbalanced response classes: A methodological proposal for datasets with numeric and categorical predictors.
 Name and type of organisation providing education and training Thesis: Level in national classification 	Dicember 6, 2005 Master degree in Engineering for the Environment and Territory - University of Napoli Federico II Reclamation of contaminated sites: Removal of heavy metals from solid matrices with phytoremediation 110/110 with laudem
PERSONAL SKILLS AND COMPETENCES	
MOTHER TONGUE	Italian
OTHER LANGUAGES	
 Reading skills Writing skills Verbal skills 	ENGLISH good good good
ORGANISATIONAL SKILLS AND COMPETENCES	Ability to organize work autonomously, defining priorities and assuming responsibility acquired through the different professional experiences listed above in which I have always been asked to independently manage the different activities respecting the deadlines and objectives set.
TECHNICAL SKILLS AND COMPETENCES	 Good familiarity with the use of computers, in particular I developed the following skills and competences: Programming, writing and data processing with the following software and programming languages: Matlab, SAS, R cran, STATA, SPSS. These skills were acquired during my phd in Statistics where I attended programming courses in SAS, Matlab and R-cran, while I learned to use software like Stata and SPSS for my research activity. Design and design in: Autocad, Gis and Civil design. These skills were acquired during my period of study in engineering and then refined during my collaboration with the Department of Civil, Construction and Environmental Engineering of the University of Naples Federico II. Use of the following design and verification software: Simplified Verification for Energy Certification, Antifocus, SAFETY SOLUTION, ECOS. These skills were acquired through the training courses followed at the Order of Engineers of Naples and Neapolitan Energy and Environment Agency Use of the entire office package: Word, Excel, Access, Power Point, Access and Publisher. These skills were acquired during my period of study in engineering and then refined during my period.
Driving licence(s)	European driving licence
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SCIENTIFIC PAPERS

- Montella, A., de Oña, R., Mauriello, F., Rella Riccardi, M., Silvestro, G., 2020. A data mining approach to investigate patterns of powered two-wheeler crashes in Spain. Accident Analysis and Prevention, 2020, 134, 105251
- García-Jiménez, E. Poveda-Reyes, S., Molero, G.D., Santarremigia, F.E., Gorrini, A., Hail, Y., Ababio-Donkor, A., Leva, M.C., Mauriello, F., 2020. Methodology for gender analysis in transport: Factors with influence in women's inclusion as professionals and users of transport infrastructures. Sustainability (Switzerland), 12(9), 3656
- Pagliara, F., Mauriello, F., Russo, L., 2020. A regression tree approach for investigating the impact of high speed rail on tourists' choices. Sustainability (Switzerland), 12(3), 910
- Pagliara, F., Mauriello, F., 2020. Modelling the impact of High Speed Rail on tourists with Geographically Weighted Poisson Regression. Transportation Research Part A: Policy and Practice, 2020, 132, pp. 780-790
- Montella, A., Marzano, V., Mauriello, F., Vitillo, R., Fasanelli, R., Pernetti, M., Galante, F., 2019. Development of macro-level safety performance functions in the city of Naples. Sustainability (Switzerland), 2019, 11(7), 1871
- Pagliara, F., Mauriello, F., 2019. The effects of investments in new transport technologies such as HSR on the tourism industry. Open Transportation Journal, 13(1), pp. 35-40
- 7. Pagliara, F., Mauriello, F., Di Martino, S., 2019. An analysis of the link between high speed transport and tourists' behaviour. Tourism, 67(2), pp. 116-125
- Mauriello, F., Montella, A., Pernetti, M., Galante, F., 2018. An exploratory analysis of curve trajectories on two-lane rural highways. Sustainability (Switzerland), Vol. 10(11), pp. 42-48
- 9. Pagliara, F., Mauriello, F., Garofalo, A., 2017. Exploring the interdependences between High Speed Rail systems and tourism: Some evidence from Italy. Transportation Research Part A: Policy and Practice. Vol. 106, pp. 300-308.
- Montella, A., Imbriani, L.L., Marzano, V., Mauriello, F. 2015. Effects on speed and safety of point-to-point speed enforcement systems: Evaluation on the urban motorway A56 Tangenziale di Napoli. Accident Analysis and Prevention, Vol. 75(9), pp 164-178
- Montella A., Punzo V., Chiaradonna S., Mauriello F., Montanino M., 2015. Point-topoint speed enforcement systems: Speed limits design criteria and analysis of drivers' compliance. Transportation Research Part C: Emerging Technologies, Vol. 53, pp. 1-18, doi:10.1016/j.trc.2015.01.025
- 12. Montella A., Galante F., Mauriello F., Pariota L., 2015. Low-cost measures for reducing speeds at curves on two-lane rural highways. *Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., Vol. 2472, 2015, pp. 142-154, doi: 10.3141/2472-17.*
- 13. Montella A., Galante F., Mauriello F., Pariota L., 2015. Effects of traffic control devices on rural curves driving behaviour. *Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., Vol. 2492, pp. 10-22, Doi:10.3141/2492-02*
- Montella A., Galante F., Mauriello F., Aria M., 2015. Investigation of Drivers' Behaviour on Two-lane Rural Highways with Continuous Speed Profiles. Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., No. 2521, pp. 3-11, doi: 10.3141/2521-01.
- 15. Montella A., Imbriani L.L., Mauriello F., Marzano V., 2014. Effects on speed and safety of Point-to-Point speed enforcement systems: evaluation on the urban motorway A56

Tangenziale di Napoli. Accident Analysis and Prevention, Springer Elsevier, 75, pp. 164-178, doi: doi:10.1016/j.aap.2014.11.022.

- Montella A., Galante F., Imbriani L.L., Mauriello F. and Pernetti M., 2014. Simulator evaluation of drivers' behaviour on horizontal curves of two-lane rural highways. Advances in Transportation Studies, an international Journal, 34, pp. 91-104, doi: 10.4399/97888548767439.
- Montella A., Pariota L., Galante F., Imbriani L. L., Mauriello F., 2014. Prediction of Drivers' Speed Behaviour on Rural Motorways Based on an Instrumented Vehicle Study. Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., Vol. 2434, pp. 52-62
- Montella A., Andreassen D., Tarko A., Turner S., Mauriello F., Imbriani L. L., Singh R., 2013. Crash databases in Australasia, European Union and United States: review and prospects for improvement. Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., Vol 2386/2013, pp. 128-136.
- Montella A., Mauriello F., 2012. A Ranking Procedure of Unsignalised Rural Intersections for Safety Improvement. Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., Vol. 2318/2012, pp. 75-82.
- Montella A., Aria M., D'Ambrosio A., Mauriello F., 2012. Analysis of powered two-wheeler crashes in Italy by classification trees and rules discovery. Accident Analysis and Prevention, Springer Elsevier, Vol. 49, pp. 58-72, doi:10.1016/j.aap.2011.04.025.
- Montella A., Andreassen D., Tarko A., Turner S., Mauriello F., Imbriani L. L., Singh R., 2012. Critical Review of the International Crash Databases and Proposals for Improvement of the Italian National Databases. Procedia - Social and Behavioral Sciences, Vol. 53, pp. 49-61, doi: 10.1016/j.sbspro.2012.09.859. Link Scopus: www.sciencedirect.com/science/article/pii/S1877042812043212
- Montella A., Aria M., D'Ambrosio A., Galante F., Mauriello F., Pernetti M., 2011. Simulator evaluation of drivers' speed, deceleration and lateral position at rural intersections in relation to different perceptual cues. Accident Analysis & Prevention, 43(6), pp. 2072-2084, DOI: 10.1016/j.aap.2011.05.030.
- Montella A., Aria M., D'Ambrosio A., Mauriello F., 2011. Data Mining Techniques for Exploratory Analysis of Pedestrian Crashes. Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., Vol. 2237/2011, pp.107-116. DOI: 10.3141/2237-12.
- 24. Montella A., Aria M., D'Ambrosio A., Galante F., Mauriello F., Pernetti M., 2010. Perceptual Measures to Influence Operating Speeds and Reduce Crashes at Rural Intersections: a Driving Simulator Experiment. Transportation Research Record: Journal of the Transportation Research Board. Vol. 2149, pp. 11-20. ISSN 0361-1981
- Montella A., Aria M., D'Ambrosio A., Galante F., Mauriello F., Pernetti M., 2010. Traffic Calming Along Rural Highways Crossing Small Urban Communities: Driving S.imulator Experiment. Accident Analysis and Prevention No 42, pp. 1585–1594. doi:10.1016/j.aap.2010.03.017