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Carmelo D'Agostino

Date of birth: 18/04/1980 | **Nationality:** Swedish, Italian | **Phone number:** (+46) 0730744126 (Work) | **Email address:** carmelo.dagostino@tft.lth.se |

Address: Mittlinjen, 15, 222 74, Lund, Sweden (Home) |

Address: John Ericssons väg 1, 223 63, Lund, Sweden (Work)

WORK EXPERIENCE

01/08/2022 – CURRENT Lund, Sweden

SENIOR LECTURER (ASSOCIATE PROFESSOR) LUND UNIVERSITY

Teaching and research in the field of traffic safety and performance-based road infrastructure geometric design and self-explaining and self-enforcing roads

Business or Sector Education |

Department Faculty of Engineering (LTH) - Department of Technology and Society - Transport and Roads Division |

Email tos@tos.lth.se | **Website** https://www.tos.lth.se/english/

01/03/2018 – 31/07/2022 Lund, Sweden

POSTDOCTORAL FELLOWSHIP IN TRAFFIC SAFETY LUND UNIVERSITY

Research in the field of Traffic Safety and infrastructure safety evaluation

01/05/2014 – 28/02/2018 Catania, Italy

RESEARCH ASSOCIATE UNIVERSITY OF CATANIA

Research on Transport Engineering with focus on Traffic Safety

2012 – 2015 Toronto, Canada

VISITING SCIENTIST RYERSON UNIVERSITY

Research in the field of Traffic Safety under the supervision of Professor Bhagwant Persaud (18 months)

EDUCATION AND TRAINING

01/11/2011 – 03/02/2014 Catania, Italy

PHD IN TRANSPORTATION ENGINEERING University of Catania (Italy) - Ryerson University (Canada)

01/01/2007 – 26/04/2010 Catania, Italy

MASTER OF SCIENCE IN TRANSPORTATION ENGINEERING (CIVIL ENGINEERING) University of Catania (Italy)

Website https://www.unict.it/

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office | Microsoft Word | Outlook | Zoom | Decision-making | Skype | Motivated | Organizational and planning skills | Creativity | Written and Verbal skills | Power Point | Responsibility | Microsoft Powerpoint | Reliability | Team-work oriented | Critical thinking | Facebook | Good listener and communicator | Social Media

PROJECTS

Participants and/or Coordinator of more than ten Research and Innovation projects in the field of Traffic Safety and performance based highway geometric design

(In the CV the five most relevant to the topic of the application)

Link https://lucris.lub.lu.se/admin/workspace/personal/overview/?uid=2

01/11/2022 – CURRENT

Exploring universal methods for traffic conflict techniques based on typical traffic scenarios in Sweden and China - Dnr: MG2021-9091 - Funded by the The Swedish Foundation for International Cooperation in Research and Higher Education

Bilatelar cooperation with China - Harbin University of Technology in the filed of Surrogate Measures of Safety and Vulnerable Road Users

01/01/2023 – CURRENT

ERC 2021 StG Grant agreement ID: 101039222 - SUrrogate measures for SAFE autonomous and connected mobility -SUperSAFE

Link https://cordis.europa.eu/project/id/101039222

01/09/2022 – CURRENT

HORIZON-CL5-2021-D6-01 Grant agreement ID: 101069500 - Safe System for radical improvement of road safety in low- and middle-income African countries - AfroSAFE

Link https://cordis.europa.eu/project/id/101069500

01/05/2015 – 31/10/2018

H2020-MG-2014-2015 Grant agreement ID: 635895 - In-Depth understanding of accident causation for Vulnerable road users - InDeV

Link https://cordis.europa.eu/project/id/635895

01/11/2021 – 01/07/2022

HANDLE: Advanced communication solutions for safer bicycles - FFI 2021-02518 Swedish Research and Innovation Council

Evaluation of safety solutions for smart bikes. Industrial partner Autoliv

01/11/2021 – 01/06/2022

ADVICE: Advanced Virtual Development Methods for Communication between Self-Driving Vehicles and Unprotected Road Users - FFI 2021-02584 Swedish Research and Innovation Council

Solutions for smart communication between electric trucks and bike riders. Industrial partner Volvo Trucks

HONOURS AND AWARDS

01/2016
2015 best paper award for the paper "Reliability-based assessment of benefits in roadway safety management" – Transportation Safety Management Committee of Transportation Research Board, Washington DC, USA.

03/02/2014
Doctor International Certification of the PhD in Engineering of Hydraulic, Environmental, and Transportation Infrastructure by European Rector association. – European Rectors association

2020
Academic qualification for Associate Professorship (Transportation Engineering 08-A3). Italian Ministry of Research and Education (ASN – Abilitazione Scientifica Nazionale). – Italian Ministry of Research and Education

2023
Academic qualification for Full Professorship (Transportation Engineering 08-A3). Italian Ministry of Research and Education (ASN – Abilitazione Scientifica Nazionale). – Italian Ministry of Research and Education

PUBLICATIONS

Author of more than forty publications in high-level scientific journals in the field of traffic safety and performance based highway geometric design

https://orcid.org/0000-0003-3805-3346
https://www.scopus.com/authid/detail.uri?authorId=57218909628
https://portal.research.lu.se/en/persons/carmelo-dagostino

(In the CV the five most relevant to the topic of the application)

2024
Age-Inclusive Transit Environments: An Exploration of Public Transportation Systems for Elderly. Environment-Behaviour Proceedings Journal, 9(28).

Zakaria, A. M., Kamaluddin, N. A., Hashim, W., & D'Agostino, C.

2023
Injury severity prediction of cyclist crashes using random forests and random parameters logit models

Scarano, A., Riccardi M.R., Mauriello, F., D'Agostino, C., Pasquino, N., Montella, A..

2023
Modelling of motorcyclists' risky behaviour at an urban T-junction using generalised linear model: An exploratory study. IATSS ResearchVolume 47, Issue 1, Pages 94 – 104.

Kamaluddin N.A., D'Agostino, C., Laureshyn, A., Varhelyi, A..

2023
A driving simulator study to evaluate the effects of different types of median separation on driving behavior on 2 + 1 roads. Accident Analysis & Prevention, 180, 106922.

Calvi, A., Cafiso, S. D., D'Agostino, C., Kieć, M., & Petrucci, G..

2022
Intrapersonal variability in public transport path choice due to changes in service reliability. Transportation, Springer nature, 2021.

Berggren, U., D'Agostino, C., Svensson, H., Brundell-Freij, K..

2022
What constitutes traffic event severity in terms of human danger perception? Transportation Research Part F: Traffic Psychology and Behaviour, 90, 22-34

Yastremska-Kravchenko, O., Laureshyn, A., D'Agostino, C., & Varhelyi, A..

2021
A relative approach to the validation of surrogate measures of safety. Accident Analysis and Prevention, 2021, 161, 106350.

Johnsson, C., Laureshyn, A., D'Agostino, C..

2021
The 'safety in density' effect for cyclists and motor vehicles in Scandinavia: An observational study. IATSS Research Volume 45, Issue 2, July 2021, Pages 169-175

Johnsson, C., Laureshyn, A., D'Agostino, C., De Ceunynck, T..

2021
Validation of surrogate measures of safety with a focus on cyclist-motor vehicle interactions. Accident Analysis & Prevention 153 (2021) 106037

Johnsson, C., Laureshyn, A., D'Agostino, C..

2021
Impact of environment on bicycle travel demand - assessment using bikeshare system data. Sustainable Cities and Society Volume 67, April 2021, Article number 102724.

D'Agostino, C., Kiec, M., Pazdan, S..

2021
Application and comparison of different methods for traffic conflict analysis. Case study on 2+1 roads. Archives of Civil Engineering Journal Vol. LXVII ISSUE 1 2021

Cafiso S., Calvi A., D'Agostino C., Kiec M., Petrucci G., Szagala P..

2021
Crash modification functions for pavement surface condition and geometric design indicators. Accident Analysis & Prevention Volume 149, January 2021, 105887.

Cafiso, S., Montella, A., D'Agostino, C., Mauriello, F., Galante, F..

2020
Same questions, different answers? A hierarchical comparison of cyclists' perceptions of comfort: in-traffic vs. online approach. Transportation Letters, 1-9.

Kazemzadeh, K., Camporeale, R., D'Agostino, C., Laureshyn, A., & Winslott Hiselius, L..

2020
Impact on Road Safety and Operation of Rerouting Traffic in Rural Travel Time Information System. Sensors, 20, 4145.

Kiec, M.; D'Agostino, C.; Pazdan, S.

2020
Electric bike navigation behaviour in pedestrian crowds. Travel Behaviour and Society 20: 114-121.

Kazemzadeh, K., D'Agostino, C. et al..

2020
A stochastic approach to the benefit cost ratio analysis of safety treatment. Case Studies on Transport Policy, Volume 8, Issue 1, March 2020, Pages 188-196

Cafiso, S., D'Agostino, C..

2020

Bicycle Traffic Volume Estimation Based on GPS Data. Transportation Research Procedia Volume 45, 2020, Pages 874-881

Pogodzinska, S., Kiec, M., D'Agostino, C..

2019

Distress and profile data analysis for condition assessment in pavement management systems. Int. J. Pavement Res. Technol. (2019) pp 1-10.

Cafiso, S., Di Graziano, A., Goulias, D., D'Agostino, C..

2019

Investigating safety performance of the SAFESTAR system for route-based curve treatment. Reliability Engineering and System Safety Volume 188, August 2019, Pages 125-132

Cafiso, S., D'Agostino, C., Kiec, M..

2019

Information modeling for road asset management "Volume 2116, 24 July 2019, Article number 280003 International Conference on Numerical Analysis and Applied Mathematics 2018, ICNAAM 2018; Rhodes; Greece.

Cafiso, S., D'Agostino, C., Delfino, E., Di Graziano, A..

2019

Comparison of Bayesian techniques for the before–after evaluation of the safety effectiveness of short 2+1 road sections. Accident Analysis and Prevention, Volume 127, June 2019, Pages 163-171.

D'Agostino, C., Cafiso, S., Kiec, M..

2018

Traffic conflicts analyses for 2+1 road sections. Volume 231, 16 November 2018, Article number 01006 12th International Road Safety Conference GAMBIT 2018 - "Road Innovations for Safety - The National and Regional Perspective", GAMBIT 2018; Gdansk University of Technology Gdansk; Poland.

Cafiso, S., D'Agostino, C., Bak, R., Kiec, M.. "

2018

A new perspective in the road asset management with the use of advanced monitoring system & BIM. Volume 231, 16 November 2018, Article number 01007, 12th International Road Safety Conference GAMBIT 2018 - "Road Innovations for Safety - The National and Regional Perspective", GAMBIT 2018; Gdansk University of Technology Gdansk; Poland.

Cafiso, S., Di Graziano, A., D'Agostino, C., Pappalardo, G., Delfino, E..

2018

Safety assessment of passing relief lanes using microsimulation-based conflicts analysis. Volume 116, July 2018, Pages 94-102 Accident Analysis & Prevention.

Cafiso, S., D'Agostino, C., Kiec M., Radek, B..

2018

Investigating the influence of segmentation in estimating safety performance functions for roadway sections. Journal of Traffic and Transportation Engineering (English Edition) 2018; 5 (2): 129 – 136

Cafiso, S., D'Agostino, C., Persaud, B..

2017

Evaluating the safety benefit of retrofitting motorways section with barriers meeting a new EU standard: Comparison of observational before-after methodologies", In Journal of Traffic and Transportation Engineering (English Edition), Volume 4, Issue 6, 2017, Pages 555-563.

Cafiso, S., D'Agostino, C..

2017

Investigating the influence of passing relief lane sections on safety and traffic performance. Journal of Transport & Health, Volume 7, Part A, December 2017, Pages 38-47.*

Cafiso, S., D'Agostino, C., Kiec, M..

2017

From manual to automatic pavement distress detection and classification. Paper presented at 5th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems, MT-ITS 2017 – Proceedings 8005711, pp. 433-438

Cafiso, S., D'Agostino, C., Delfino, E., Montella, A..

2017

Investigating the influence on safety of retrofitting Italian motorways with barriers meeting a new EU standard. Traffic Injury Prevention, Volume 18, Issue 3, 3 April 2017, Pages 324-329

Cafiso, S., D'Agostino, C., Persaud, B..

2014

Investigating transferability and goodness of fit of two different approaches of segmentation and model form for estimating safety performance of Motorways. Procedia Engineering 12/2014; 84.

D'Agostino, C..

2017

Application of an Intelligent Transportation System in a Travel Time Information System: Safety Assessment and Management. Transportation Research Record: Journal of Transportation Research Board, Issue: 2635 pp. 46-54, June 2017

Cafiso, S., D'Agostino, C., Kiec, M., Pogodzinska, S..

2015

Reliability-based assessment of Benefits in roadway safety management. Transportation Research Record: Journal of the Transportation Research Board, No. 2513 on pages 1-10.

Cafiso, S., D'Agostino, C..

2016

Comparison of Italian and Hungarian black spot ranking. Transportation Research Procedia (TRPRO) Volume 14, 2016, Pages 2148–2157. Transportation Research Arena, April 2016.

Borsos, A., Cafiso, S., D'Agostino, C., Miletics, D..

2017

Surrogate measure of safety from road inspection data: experimental test on Polish roads. "Roads and Bridges - Drogi i Mosty" Vol. 16, No. 2 pp. 115-130.

Cafiso, S., D'Agostino, C., Kiec, M., Pappalardo, G..

2016

Assessing the stochastic variability of the Benefit-Cost ratio in roadway safety management. Accident Analysis & Prevention, Volume 93, August 2016, Pages 189–197.

Cafiso, S., D'Agostino, C..

2024

Stochastic method based on copulas for predicting severe road traffic interactions

Write here the description...

Zhankun A., D'Agostino, et al.

NETWORKS AND MEMBERSHIPS

01/12/2023 – CURRENT Brussels

Member of the Expert Group on Road Infrastructure Safety (EGRIS) of the DG MOVE at the European Commission

Expert of the Road Infrastructure Safety (EGRIS) Sub-Group 3 (SG3)

01/01/2020 – CURRENT

Founder and editor of the journal "Traffic Safety Research: an interdisciplinary journal"

Journal founded by Lund University, TU Delft, Vias and TØI.

01/01/2021 – CURRENT

Editor of the Special Issue for the International Cycling Safety Conference 2020 in Accident Analysis & Prevention.

Editor of Accident Analysis and Prevention.

01/01/2019 – CURRENT

Editor of Transportation Research Record

Transportation Research Record (TRR) is the Journal of the Transportation Research Board of the National Academies.

01/01/2020 – CURRENT

Editor of Archived of Transport

The Archives of Transport is a journal of the Warsaw University of Technology. It is prepared and published by Warsaw University of Technology – Faculty of Transport as a quarterly. The first issue of Archives of Transport was released in 1989**.** Since that time the journal is regularly and continuously published.

06/05/2010 – CURRENT Nordic Countries - Lund University

Chairman and director of the Nordic Traffic Safety Academy

Nordic Traffic Safety Academy (NTSA) is a forum to exchange information and experience in research and education. The NTSA was established in 2011, in Lund, by a group of academics from several Nordic universities and research centers.

2019 – CURRENT Rome - Paris

Member of the Technical Committee CT 2.1 of the PIARC (World Road Association) on autonomous driving and Smart Roads.

Member of the technical committee for the definition of the new guidelines for the infrastructure evaluation for Automated and Connected Driving

ORGANISATIONAL SKILLS

Nordic Traffic Safety Academy annual meeting, Luleå, Sweden 2020.

Annual meeting organizer

Research Course in Aalborg 2023 organized by the Nordic Traffic Safety Academy

Scientific Organizer of the Nordic Traffic Safety Research Course on Safe System in future mobility scenarios: the importance of a multidisciplinary approach

International Cycling Safety Conference, Lund, Sweden 2020

Member of the conference scientific organizers group

Nordic Traffic Safety Academy

Annual meetings and Research Courses scientific director and coordinator (from 2020 - annual events)

MANAGEMENT AND LEADERSHIP SKILLS

Creator and coordinator of the Traffic Safety Virtual Reality Hub at LTH, Lund University

The Traffic Safety Virtual Reality Hub has been established at Lund University under the Department of Social Science, Fire Engineering, and Technology and Society and is funded by the Faculty of Engineering (LTH) at Lund University and Crafoord Foundation.

Leader of the Research group Traffic Safety & Behaviour at Lund University

Definition of research direction and group management. The group includes four senior researchers and three PhD students, and three project assistants.