

Marco Dozza, PhD

CHALMERS - University of Technology

Dept. of Mechanics and Maritime Sciences, M2

Tel: +46 31 772 3621

e-mail: marco.dozza@chalmers.se

Hörselgången 4 (Campus Lindholmen, SAGA4th floor), 417 56 Göteborg, Sweden

Webpage: <https://www.chalmers.se/en/staff/Pages/marco-dozza.aspx>

Google Scholar: <https://scholar.google.se/citations?user=EufYf4gAAAAJ&hl=sv>

Research Gate: https://www.researchgate.net/profile/Marco_Dozza

ORCID ID: <http://orcid.org/0000-0002-6544-4281>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56085752700>

Webofscience: www.goo.gl/UK4J9R

Pubmed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=dozza+M>

Semantic Scholar Id: <https://www.semanticscholar.org/author/M.-Dozza/46838520>

DBLP Id: <https://dblp.org/pid/21/5322.html>

Videos from my research: <https://www.youtube.com/user/marcodozza/videos>

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1. *Work experience*

Chalmers University of Technology, Sweden – *Sep. 2009 to present*

- Head of the unit for *Crash Analysis and Prevention* within the *Vehicle Safety* division in the *Mechanics and Maritime Sciences* department at Chalmers.
- Full professor in *Active Safety and Road-user Behavior*.
- Principal investigator for several research projects on *modelling road-user behavior*, *intelligent-system engineering*, and *automated driving*.
- Examiner and lecturer in the Master's Program for *Mobility Engineering*.
- Examiner and supervisor for several PhD and Master's projects related to modelling human behavior, active safety, and cycling safety.
- Main author or co-author of more than 80 scientific articles and peer-reviewed contributions to conferences in transportation, engineering, psychology, and neuroscience.

Volvo Technology Corporation, Sweden – *Apr. 2007 to Sep. 2009*

- Project leader in the Intelligent Technologies group at *Volvo Technology* (now, Volvo Group Trucks Technology) for Volvo AB, Volvo Cars, and EU projects including the euroFOT project (21M€; 23 partners).
- Researcher in the EU projects: PReVENT, AIDE, Safespot, FESTA, and euroFOT.
- System developer for cooperative and commercial systems for advanced driver support systems, e.g., Driver Alert Support for Volvo Trucks and third generation Intelligent Driver Information System for Volvo Cars.
- Inventor of one patent on safety applications for connected vehicles.

Oregon Health & Science University, Portland (OR) USA – *Neurological Science Institute* – *Jan. to Nov. 2003*

- Developer of hardware and software for prototypic medical devices for biofeedback via advanced human-machine interfaces.
- Experiment leader: operated movement measurement equipment, such as stereophotogrammetry systems, movable force plates, and EMG systems, and analyzed the biomedical data acquired.

2. Education

Chalmers University of Technology and Gothenburg University – Sep. 2009 to present

- Professor title, January 2021.
- Docent title, April 2014.
- Diploma of Higher Education, October 2012.
- Lönesättning och lönerevision, Victoria Persson, October 2021.
- Att genomföra svåra samtal, Sara Botö, Chalmers, October 2020.
- Arbetsmiljöutbildningen del 1: Systematiskt arbetsmiljöarbete och lagefterlevnad, Magnus Åkerström, Chalmers, May 2019.
- Arbetsmiljöutbildningen del 2: Organisatorisk och social arbetsmiljö, Magnus Åkerström, Chalmers, May 2019.
- 20+ ECTS in higher education, with focus on pedagogy and research supervision:
 - o Coaching: An approach to supervision of doctoral students (eq. 1 ECTS), 2016, Chalmers by PeO Hillman and Sofia Månsson.
 - o Supervision of Research (TLE202; 3 ECTS), 2010, Chalmers, by Michael F. Christie.
 - o Teaching and Learning in Higher Education (HPE101; 5 ECTS), 2010, Göteborg Universitet by Sylvi Vigmo and Annika Lantz-Andersson.
 - o Learning in Digital Media (FCIU020; 3 ECTS), 2011, Chalmers, by Elisabeth Saalman.
 - o Teaching, Learning & Evaluation (FCIU010; 3 ECTS), 2011, Chalmers, by Tom Adawi.
 - o Pedagogical Project (FCIU040; 6 ECTS), 2011, Chalmers, by Elisabeth Saalman.
 - o Introductory Pedagogies for PhD students, 2010, Chalmers, by Barbro Ludvigson.
- Effective Personal Leadership – Leadership Management International, 2018.

University of Bologna, Bologna, Italy &

Oregon Health & Science University, Portland (OR), USA – Dec. 2003 to Apr. 2007

- [PhD in Bioengineering \(http://www.dozza.eu\)](http://www.dozza.eu)
- Designer and evaluator of biofeedback systems for improving postural control in humans.
- Inventor of a patent on an audio-biofeedback device (human-machine interface) created as part of my doctoral studies.

University of Bologna, Bologna, Italy – Sep. 1997 to Dec. 2002

Master of Electronics Engineering

- Major in electronics and biomedical engineering.
- 4 months master's thesis work in the USA funded by a merit grant.

3. Supervisory experience

PhD Students:

Currently supervising

- Tianyou Li, “Driver interaction with cyclists and e-scooterists”. Licentiate expected in 2023, *main supervisor and examiner*.
- Ali Mohammadi, “Computational Models for Interaction between Automated Vehicles and Cyclists”. Licentiate expected in 2022, *main supervisor and examiner*.
- Alexander Rasch, “Computational models for driver to vulnerable road user interaction”. Licentiate awarded in 2020, PhD expected in 2023, *main supervisor and examiner*.
- Prateek Thalya, “Model-based automated-emergency-braking for cyclist crash avoidance”. Licentiate expected in 2021, *main supervisor and examiner*.
- Linda Pipkorn, “Human Collaboration with Automation”. Licentiate awarded in 2020, PhD expected in 2022, *main supervisor and examiner*.
- Jordanka Kovaceva, “Benefit estimation of active safety for cyclist-crash avoidance”. Licentiate awarded in 2019, PhD expected in 2022, *co-supervisor and examiner*.
- Jian Wu, “Safety field data batch validity for automated driving and advanced driver assistance system development”. Licentiate expected in 2023, *examiner*.
- Malin Svärd, “Driver behavior modelling for safety assessment and use in advanced driving assistance systems”. PhD expected in 2022, *examiner*.
- Emma Nilsson, “Understanding and measuring the effect of cognitive distraction on driving performance”. PhD expected in 2022, *examiner*.
- Xiaomi Yang, “Virtual safety assessment of automated vehicles interacting with vulnerable road users in the cities of the future”. Licentiate expected in 2022, *examiner*.
- Chi Zhang, “Classifying and predicting interactions between automated vehicles and vulnerable road users using artificial intelligence”. University of Göteborg, Licentiate expected in 2022, *co-supervisor*.
- Hamir Hossein Kalantari, “Computational Models for Interaction between Automated Vehicles and pedestrians”. University of Leeds, PhD expected 2023, *co-supervisor*.

Supervised

- Christian-Nils Boda, “Crash causation and road user behavior modelling based on naturalistic data with video”. Licentiate awarded in 2017, PhD awarded in 2019, *main supervisor*.
- Alberto Morando, “Human Factors in Autonomous Driving”, Marie Curie project, Licentiate awarded in 2017. PhD awarded in 2019, *main supervisor*.

- Daniel Nilsson, “Driver Models for Lateral Control”, QUADRAE project. Licentiate awarded in 2017, *main supervisor*.
- Jonas Bärgrman, “Road users’ safety margins”. Licentiate awarded in 2014, PhD awarded in 2016, *main supervisor*.
- Emma Tivesten, “Field data acquisition and analysis methods for car safety development”. PhD awarded in 2014, *co-supervisor*.
- Bo Sui, “Evaluation of active safety systems in China”. Licentiate awarded in 2020, *examiner*.

Visiting PhD Students:

- Sara Moll, “Modelling overtaking maneuvers of bunch riders”, visiting PhD student from the University of Valencia, Jan-Apr 2021, *main supervisor at Chalmers*.
- Oliver Lee, “Cyclists Comfort Boundaries”, Secondment, visiting PhD from the Marie Curie project MOTORIST, November, 2017, *main supervisor at Chalmers*.
- Oliver Lee, “Cyclists Comfort Boundaries”, Secondment, visiting PhD from the Marie Curie project MOTORIST, Delft University of Technology, Mar-May, 2017, *main supervisor at Chalmers*.
- Joel Goncalvez, “Analysis of Drowsy Behaviour from Naturalistic Data”, Secondment, visiting PhD from the Marie Curie project HFauto, University of Munich, Aug-Oct, 2016, *main supervisor at Chalmers*.
- Pedro Huerta Leyva, “Analysis of Cyclist Braking Behavior from Real World”, Secondment, visiting PhD from the Marie Curie project MOTORIST, University of Florence, May-Jul, 2016, *main supervisor at Chalmers*.

Research Engineers:

- Alessio Violin (Jan 2021 to Jul 2021): L3Pilot project, *main supervisor*.
- Pierluigi Olleja (Jun 2020 to Jun 2021): L3Pilot project, *main supervisor*.
- Sabino Mastrandrea (Jun. 2019 to Aug. 2019): MICA project, *co-supervisor*
- Alexander Rasch (Jun. 2018 to Aug. 2018): DIV project, *main supervisor*
- Gabriele Panero (Jun. 2018 to Aug. 2018): DIV project, *main supervisor*
- Alexander Rasch (Jul. 2016 to Dec. 2017): E-trike project, *main supervisor*
- Prateek Thalya (Jun. 2016 to Apr. 2017): DIV project, *main supervisor*
- Leila Jaber (Jun. 2016 to Dec. 2016): DIV project, *main supervisor*
- Ron Schindler (Jun. 2015 to Aug. 2015): M&B project, *main supervisor*

- Michael Mackenzie (Aug. 2013 to Feb. 2014): e-BikeSAFE, e-BikeWay projects, *main supervisor*.
- Andre Fernandez: (Aug. 2011 to Aug. 2013): preBikeSAFE, BikeSAFE, and BikeSAFER project, *main supervisor*.
- Thomas Andersson (Jun. 2011 to Aug. 2011): MASCOT 2 project, *main supervisor*.
- Martin Idegren (Jun. 2011 to Aug. 2011): MASCOT 2 project, *main supervisor*.

Master Students: Thesis Work and Engineering Projects

- *Lucas Billstein and Christoffer Svernlöv*. Field assessment of personal mobility vehicles. 2021, Examiner.
- *Alessio, Violin*. Safety, comfort, and stability of new e-vehicles for personal mobility. 2020, co-supervisor and examiner.
- *Song, He*. Design and verification of a tool to automate test procedures for autonomous emergency braking systems. 2019, academic supervisor and examiner.
- *Karlsson Henrik; Olson Lidman Anna*. Intelligent Light Communication from Automated Vehicles to Other Road Users. 2019, academic supervisor and examiner.
- *Carl von Rosen Johansson and Adam Wiklind*. Efficient radio resource management for cooperative safety applications based on centralized road-safety risk assessment. 2019, co-supervisor.
- *Sabino Mastrandrea*. Understanding driver planning behavior when overtaking a cyclists: Time to collision estimations from naturalistic driving data. 2019, examiner.
- *Panero, Gabriele*. How do drivers overtake pedestrians? 2018, *examiner*.
- *Rasch, Alexander*. Analysis of real world overtaking maneuvers. 2018, *examiner*.
- *Nero, Gustav*. Analysis of overtaking maneuvers from UDRIVE data. 2017, *examiner*.
- *Klein Fabian; Alvarez, Jorge Roberto*. Video analysis of naturalistic data: lane tracking for lane off-set estimation. 2017, *examiner*.
- *Strömberg, Jeanna; Stolt, Caroline*. A novel cooperative system for vulnerable road user safety. 2017, *supervisor and examiner*.
- *Moretto, Claudia*. Drivers' overtaking of bicycles with oncoming traffic: decision making process and safety margins towards cyclists. 2017, *examiner*.
- *Jaber, Leila; Thalya, Prateek*. Driver Interaction with Pedestrians at Intersections: Quantifying the influence of environmental factors on driver comfort boundaries. 2016, *examiner*.
- *Joakim, Olsson*. A lane detection system virtual system for test and evaluation of active safety and autonomous driving. 2015, *supervisor and examiner*.

- *Schindler, Ron; Bast, Viktor*. Drivers' comfort boundaries when overtaking a cyclist. 2015, *examiner*.
- *Boda, Christian-Nils; Muñoz-Cantillo, Juan Camilo*. Field assessment of driver decision making at intersections: A real-time wireless application to manipulate encroachment timing. 2013, *examiner*.
- *Gustafsson, Per; Lindgren, Linus; Boda, Christian-Nils; Muñoz-Cantillo, Juan Camilo*. BikeCom - Cooperative Applications for Vulnerable Road Users Safety, project for the students in the Master Course for Automotive Engineering, 2012, *supervisor and examiner*.
- *Tomas Andersson and Martin Idegren*. 'Set-up and real-traffic assessment of a data logger for vulnerable-road-user motion', 2011, *supervisor and examiner*.
- *Nieves Pañeda-Gonzales*. 'Recognizing safety-critical events from naturalistic driving data', 2011, *supervisor and examiner*.
- *Arjun Venkataraman and Premnath Sukumar*. 'Estimation of Primary Task Demand using Naturalistic Field Operational Test Data', 2011, *supervisor and examiner*.
- *Andre Fernandez*, 'Driver Distraction in Steady State Car Following Situations'. 2011, *examiner*.
- *Sergejs Dombrovskis*, 'Implementation and real-traffic assessment of a new infotainment interface concept', 2010, *examiner*.
- *Xi Li*, 'Factors influencing headway selection while negotiating secondary tasks in real-traffic', 2010, *examiner*.

4. Teaching experience at Chalmers

- *Examiner and lecturer* for TME192 Active Safety, 2012-present, Master Programme for Mobility Engineering (Automotive Engineering 2012-2021), Chalmers.
- *Lecturer* in the [Micromaster Programme for Emerging Automotive Technologies](#) at Chalmers, MOOC in [Road Traffic Safety in Automotive Engineering at Chalmers](#), 2019-present.
- *Lecturer* in the [Summer School IDEA league on Driver modelling](#), Chalmers, 21 – 25 September, 2020 and 13-17 September 2021.
- *Supervisor* for TME180 Automotive Engineering Project, 2011, 2015, 2019, 2021, Master Programme for Automotive Engineering, Chalmers.
- *Examiner* for FTME100 and FTME105 Journal club: Traffic Safety (part A and part B), 2015-2017, PhD course in the School of Machine and Vehicle Systems, Chalmers.
- *Examiner and lecturer* for TME191 Advanced Active Safety, 2009-2012, Master Programme for Automotive Engineering, Chalmers.

- *Examiner and lecturer* for TME201 Vehicle and Traffic Safety, 2009-2012, Master Programme for Automotive Engineering, Chalmers.
- *Lecturer* for TME202 Vehicle and Traffic Safety, 2012-present, Master Programme Mobility Engineering (Automotive Engineering 2012-2021), Chalmers.
- *Lecturer* for TME121 Engineering of Automotive Systems, 2012-2020, Master Programme for Automotive Engineering, Chalmers.

5. Editing, evaluating, and reviewing experience

Guest editor for:

- Special Issue on Cycling Safety (ICSC2022) in Journal of Safety Research, 2022-2023.
- Special Issue on Cycling Safety (ICSC2021) in Accident Analysis and Prevention, 2020-2021.
- Special Issue on Cycling Safety (ICSC2017) in Journal of Safety Research, 2018.
- Special Issue on Cycling Safety (ICSC2015) in the Journal of Transportation Safety & Security, 2019.
- Special Issue on Cycling Safety (ICSC2014) in the international journal Safety Science, published 2017.

Evaluator of PhD and licentiate theses (including participation to grading committees)

- Cosimo Lucci, Feasibility study of motorcycle autonomous emergency braking system, University of Florence, 2022. (PhD)
- Elke-Henriette Erdei, Transmitting safety-related information to cyclists, University of Dresden, 2021. (PhD)
- Georgios Dialynas, An experimental approach into the quantification of steering and balance behaviour of bicyclists, Technical University of Delft, 2020. (PhD)
- Linnea Kjeldgård, Sickness absence and disability pension among individuals injured in a bicycle crash, Karolinska Institutet, 2020. (Licentiate)
- Maria Ohlin, *How to Make Bicycling Safer – Identification and Prevention of Serious Injuries among Bicyclists*, University of Göteborg, 2019. (PhD)
- Jami Pekkanen, *Perception, Action and Attention in Locomotor Control: An Experimental and Computational Investigation*, University of Helsinki, 2018. (PhD)
- Ingrid Pettersson, *Eliciting User Experience in Early Design Phases*, Chalmers University, 2018. (PhD)
- Chen-Ning (Jonny) Kuo, *Driver Distraction: Behavioural Markers for Performance Impairment in Naturalistic Driving*, Monash University, 2016. (PhD)

Evaluator of grant applications

- The French National Research Agency (ANR; 2015)
- AoA Transport 2018
- CHAIR Seeds 2020

Active reviewer for:

- Accident Analysis & Prevention
- Traffic Injuries and Prevention
- IEEE Journals
- Journal of Safety Research
- Transportation Research Part F

<https://publons.com/researcher/2774149/marco-dozza/>

6. International collaborations and awards

Member of:

- International Cycling Safety Conference: steering and scientific committees, 2014-present.
- Road Safety and Simulation International Conference: scientific committee, from 2016.
- AstaZero Research Council at Chalmers, 2013-2014.
- Driver Distraction and Inattention Conference: reviewing committee (2012-2014, 2019).

Extended visits for scientific collaboration

- *Visiting Researcher*, Technical University of Delft, Delft, The Netherlands. May and June 2018. Co-authored manuscripts. Co-supervised PhD student project within MOTORIST. Hosts: Prof. Haneen Farah, Prof. Arend Schwab.
- *Visiting Researcher*, University of New South Wales, Sydney, Australia. Jan. 15 - Feb. 1, 2014. Prepared grant application on bicycle safety, supported analysis plan of the Australian Naturalistic Driving Study. Host: Prof. Michael Regan.
- *Visiting Researcher*, UMTRI (University of Michigan Transportation Institute), Ann Arbor (MI), USA. May 2013. Analysis plan for cooperative application based on car-to-bicycle communication. Host: Dr. James Sayer.
- *Visiting Researcher*, VTTI (Virginia Tech Transportation Institute), Blacksburg (VA), USA. Aug. 2013. Preparation for Analysis of SHRP2 data. Host: Dr. Jon Hankey.

- *Visiting Researcher*, UMTRI (University of Michigan Transportation Institute), Ann Arbor (MI), USA. Jul. 10 - Aug. 14, 2011. Analyzed distraction during cell phone use in different age groups using the IVBSS dataset. Host: Dr. James Sayer.
- *Visiting Researcher*, Slovak Academy of Science, Bratislava, Slovak Republic. Nov. 3-12 2004. Host: Dr. Frantisek Hlavacka.
- *Visiting Researcher*, Massachusetts Institute of Technology (MA), USA, Jan. 10-16 2003. Host: Dr. Conrad Wall III.

Invited keynotes, seminars, and presentations

- Rundabordskonferens om hantering av mikromobilitet, Drive Sweden och RISE, April 4th, 2022, "Traffic safety research on micromobility".
- Webinar with SAFER and Cykelcentrum "We share the space – bicyclists and motor vehicles interacting; challenges and solutions", Nov 4th 2020, "Modelling Interaction between Cyclists and Automobiles".
- Quantitative modelling of road user-behavior, Nov 18th, 2019, The Centre for Accident Research and Road Safety, Queensland University, Brisbane, Australia.
- Quantitative modelling of road user-behavior, Nov 15th, 2019, University of New South Wales, Australasian College of Road Safety (ACRS) NSW, Neuroscience Research Australia (NeuRA), Sydney, Australia.
- How new technologies and big data may improve cycling safety, Apr. 11, 2018, Technical University of Delft, Delft, The Netherlands.
- Research on road-user/vehicle interaction at Chalmers, SWOV, Apr. 10, 2018, SWOV, Den Haag, The Netherlands.
- Research on crash analysis and prevention at Chalmers, Apr. 10, 2018, Technical University of Delft, Delft, The Netherlands.
- Roundtable on Cycling Safety organized by the International Transport Forum, OECD, Jan. 29 - 30 2018, Paris, France.
- University of Florence, seminar for the PhD student program at the Engineering department, "Naturalistic driving studies" Jun. 16 2017, Florence, Italy.
- FOTNET "2nd Anonymisation of personal FOT Data", moderator for the session "Feature extraction from naturalistic videos". FOTNET Stakeholders Workshop. Sept. 1 2016, Göteborg, Sweden.
- FOTNET "Anonymisation of personal FOT Data", moderator for the session "What are the main issues with data anonymisation?". FOTNET Stakeholders Workshop. Sept. 1 2015, Göteborg, Sweden.
- IRCOBI, "Driver's Data, Driving Data and Benefit of Data Integration" invited speaker: "Naturalistic Driving Data and the special Requirements for Naturalistic Cycling Studies", Sep. 9th 2014, Berlin, Germany.

- “Naturalistic cycling studies in Europe” Seminar at the University of New South Wales. Jan. 27 2014, Sydney Australia.
- “Naturalistic cycling studies in Europe” Seminar at Monash University organized by TAC. Jan. 20 2014, Sydney Australia.
- FOTNET “Naturalistic cycling studies”, invited speaker and moderator for the session “NDS with different types of vehicles”. FOTNET Stakeholders Workshop. Nov. 22 2013, Brussels, Belgium.
- Federal Highway Administration, “Driver-Driver & Other Road Users Data for Human Factors Research”, invited talk for the Workshop on “Utilizing Various Data Sources for Surface Transportation Human Factors Research”. Nov. 6-7 2013, Federal Highway Administration, Turner-Fairbank Highway Research Center, Washington DC, USA.
- IRCOBI, “Collision Avoidance and Driver Assistance Systems- Field data, what do we have and what do we need for future research?”, invited speaker: “Integrating Crash Data, Road Data and FOT Data”. Sep. 10 2013, Gothenburg, Sweden.
- Almedalen 2013, panelist for the discussion: “Hur gör vi cykeln till ett naturligt transportmedel i våra städer – utan att äventyra liv?”. Jul. 2 2013, Visby, Sweden.
- UMTRI, “Naturalistic Cycling Data”, Seminar at UMTRI. May 25 2013, Ann Arbor (MI), USA.
- SAFER, “Naturalistic Cycling Data: Cyclist Behavior and Intelligent Systems” (Pre-Crash), SAFER project day. May 7 2013, Göteborg, Sweden
- Chalmers, “Bicycle safety: new challenges and new solutions”, Seminars Series on Sustainable Transport. Apr. 11 2013, Göteborg, Sweden.
- Chalmers, “Erfarenhet av Open Innovation: Tool kit”, Open Innovation som verktyg för forskare. Mar. 19 2013, Göteborg, Sweden.
- VTTI, “Piloting the naturalistic methodology on bicycles”, invited presentation to the 3rd International Symposium on Naturalistic Driving Research. Aug. 27-30 2012, Blacksburg (VA), USA.
- NTF, “Den ömtåliga människan: Hur kan intelligent kommunikationsteknologi förbättra säkerheten för fotgängare och cyklister?”, SAFER/NTF seminariet. May 10 2012, Göteborg, Sweden.
- SAFER, “MASCOT: a platform for VRU active safety”, SAFER lunch seminar. Apr. 12 2012, Göteborg, Sweden.
- SAFER, “preBikeSAFE, piloting the naturalistic methodology for cycling”, SAFER lunch seminar. Apr. 12 2012, Göteborg, Sweden.
- SAFER, “How cell phone use affects driving performance in real-traffic”, SAFER lunch seminar. Nov. 10 2011, Göteborg, Sweden.
- ISI-PADAS, “Understanding driver behavior using naturalistic and field operational test data”, Keynote for the final event of ISI-PADAS - Integrated Human Modeling and Simulation to

support Human Error Risk Analysis of Partially Autonomous Driver Assistance Systems. Aug. 30 2011, Reggio Emilia, Italy.

- Chalmers, “Large-scale collection of naturalistic driving data: research questions and analysis challenges”, Machine Learning on Large Data Sets Workshop. August 25 2011, Göteborg, Sweden.
- FOTNET, “Evaluation issues related to penetration of equipped vehicles and roadside equipment”, FOTNET workshop. In parallel with Cooperative Mobility Showcase 2010 and Cooperative Mobility Conference 2010, Amsterdam RAI Convention Centre. Mar. 24 2010, Amsterdam, The Netherlands.
- FOTNET, “Defining functions, research questions, hypotheses, and performance indicators: best practice from euroFOT and national FOTs”, FOTNET Seminar: Best practice using the FESTA methodology, ERTICO. Dec. 1 2010, Brussels, Belgium.
- IEEE, “A portable audio-biofeedback system to Improve postural control”, Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Sep. 1-5 2004, San Francisco (CA), USA.

Prizes and awards

- Massimo Grattarola Neuroengineering Award, 2008. This Italian national award was for the best thesis in neuroengineering published in 2007 (1000€).
- VI Design-In Award, 1st Place for a “Biofeedback Wireless Wearable System.” This national award was for the most innovative applied electronic design in the field of sensor networks in 2005.
- AURION Prize, 2nd Place for the presentation “Visual vs. Audio Biofeedback for the Control of Upright Posture” at the Italian Society for the Analysis of Movement in Clinics (SIAMOC), Tirrenia (PI), Oct. 2005.

7. Innovation and utilization

Hardware and software development:

- [OpenDS](#): supervised the development of vulnerable road user models (pedestrians and cyclists) and virtual environments in an open-source driving simulator.
- SAFER100car: a software toolkit developed in Matlab for my teaching activity. It facilitates visualization and analysis of the 100 Naturalistic Driving Study data, and includes a graphical user interface. It is available in the [Data Warehouse](#) at Virginia Tech Transportation Institute and has been downloaded several thousand times. This toolkit is referenced in several scientific papers and has been used by researchers all over the world, both in academia and industry.

- SAFER8truck: software similar to SAFER100car, for visualization and analysis of the 8 Truck data from the CVO study. This toolkit also includes a graphical user interface and is currently being used in my teaching activity.
- MASCOT: a modular customizable platform for data collection and processing which we utilized to pioneer data collection and development of real-time applications for pedestrians and bicyclists. It is the main tool that made my bicycle safety research possible.
- Mobile communication platform: software on a cloud server which is accessible via mobile phones (i-phones, Android, and Windows CE). It handles events in a spatial database and was used as a backbone for the BikeCOM application (an engineering project in the Master's for Automotive Engineering at Chalmers). This software enables rapid prototyping for cooperative applications using the cellphone network.
- Cooperative bicycle: a bicycle equipped with a MASCOT system and a transponder for wireless communication. This bicycle was built in Sweden and deployed in the Ann Arbor, US. This cooperative bicycle was equipped with the same transponder as the other 1500 motorized vehicles participating in the [Safety Pilot Model Deployment](#) Project (18M\$). This bicycle was the first in the world to ride and collect naturalistic data in a cooperative environment, exchanging information with the 1500 vehicle around it.

Organized Events:

- Workshop on naturalistic data analysis, training for the HFauto Marie Curie project, SAFER, Sept. 8, 2016, main organizer.
- 2nd Workshop on naturalistic cycling analysis, satellite event of the 5th International Cycling Safety Conference, Bologna, Nov. 3, 2016, main organizer.
- 3rd International Cycling Safety Conference 2014, Göteborg Nov. 18-19 2014, leading both the organizing and scientific committees, chair.
- 1st Workshop on naturalistic cycling analysis, satellite event of the 3rd Driver Distraction and Inattention Conference, Göteborg, Sep. 3, 2013, main organizer.
- Seminar on vulnerable road user safety, Brian Fildes, SAFER Nov. 29, 2011, main organizer.
- Workshop on pedestrian motion for cooperative safety applications, SAFER, Apr. 13, 2011, main organizer.

Recently Organized Seminars:

- SHAPE-IT Research Skills workshop M2 - Driver Monitoring, SHAPE-IT ESR, on-line, October 15th 2020.
- Modelling Interaction between Cyclists and Automobiles, MICA partners, SAFER, Jun 17th, 2020.
- Eye Tracking in the Wild - from Eye Movements to Gaze Behavior, Otto Lappi, University of Helsinki, SAFER, Dec 18th, 2019.

- An empirical analysis to assess the operational design domain of lane assistant system equipped vehicles, Haneen Farah, TUD, SAFER, Dec. 12th, 2019.
- Vehicle safety in the era of automation, Michiel van Ratingen, Euro NCAP, SAFER, Dec. 12th, 2019.
- Human factors in driving (automation systems), Shannon Roberts, U. of Massachusetts Amherst, SAFER, Aug. 19th, 2019.
- Automated vehicle communication and cooperation with pedestrians and other road users), John D. Lee, U. of Wisconsin, SAFER, March 20th, 2019.

Media:

- In 2022, my research on micromobility vehicles interested several media including SVT, P4, and several national and international newspapers and news websites.
- In 2013 and 2014, my research on bicycle safety garnered media attention in Europe and Sweden including: GP, DN, SVT (national), and radio P4.
- During my PhD, major newspapers in the US (e.g. Los Angeles Times, Daily News) came to interview me and published articles on my research. I gave several interviews for the TV which aired mainly in the US. Australian Discovery Channel also did a report on my research.

Reaching to society:

- White paper (Swedish "remissvar") Bårgman, J., Victor, T., Dozza, M., & Nerman, O. (2013). Chalmers svar på remiss om åtgärder mot trafikfarlig användning av kommunikationsutrustning under körning.
- Paper on public press: Dozza, M. Farlig å blande trafikanter. Aftonposten, Sep. 26 2013.
- Demo simulator showing how cognitive load from secondary task affect lane change. The demo was performed for a whole day and involved hundreds of people from the public in a large event inside the main shopping mall in Göteborg. Vetenskapfestivalen, Göteborg, 2011.

Patents

- PCT/SE2009/000182 – Method and system to enhance traffic safety and efficiency for vehicles including calculating the expected future driver's behavior.
- [Method and system to enhance traffic safety and efficiency for vehicles including calculating the expected future driver's behavior](#) M Dozza - US Patent 8,786,421, 2014
- PCT/IB2004/001679 - USPTO Patent Application 20070249466 - Device for conditioning balance and motor co-ordination.
- [Device for conditioning balance and motor co-ordination](#) L Chiari, FB Horak, A Cappello, D Marco - US Patent 7,867,140, 2011

8. Publication list

PhD thesis

- **Dozza M.** “Biofeedback Systems for Human Postural Control - a method for understanding sensory integration and improving motor training”. PhD thesis. 2007 – on www.dozza.eu/

Peer-reviewed publications

Papers in international scientific journals (peer-reviewed):

1. *Pipkorn, L., Tivesten, E., & Dozza, M. (2022). "It's about time! Earlier take-over requests in automated driving enable safer responses to conflicts". *Transportation Research Part F: Traffic Psychology and Behaviour*, 86, 196-209.*
2. *Dozza, M., Violin, A., Rasch, A. "A data-driven framework for the safe integration of micro-mobility into the transport system: Comparing bicycles and e-scooters in field trials". *Journal of Safety Research* – in press.*
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Individual contribution to each paper in international scientific journals (peer-reviewed)

according to the [CRediT](#) system

Paper ID	Conceptualization	Data curation	Formal analysis	Funding acquisition	Investigation	Methodology	Project administration	Resources	Software	Supervision	Validation	Visualization	Writing - draft	Writing - review
1	+			+		+				+			+	+
2	+			+		+	+	+		+		+	+	+
3	+			+		+	+			+				+
4	+			+		+	+			+				+
5	+			+		+	+			+				+
6	+			+		+	+			+				+
7	+			+		+	+			+				+
8	+			+		+	+			+				+
9	+			+		+	+			+				+
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Paper ID	Conceptualization	Data curation	Formal analysis	Funding acquisition	Investigation	Methodology	Project administration	Resources	Software	Supervision	Validation	Visualization	Writing - draft	Writing - review
20	+	+	+	+	+	+	+	+	+		+	+	+	+
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Non peer-reviewed publications

Selected project reports:

1. Victor T., **Dozza M.**, et al. Safer Glances - SAFER SHRP 2 S08 Final report, Jul. 2014.*
2. Victor T., **Dozza M.**, et al. Safer Glances - SAFER SHRP 2 S08 Interim report, Dec. 2013.*
3. **Dozza M.** BikeModel (TRV2016) Sluttrapport. Göteborg: Chalmers University of Technology, 2017.
4. **Dozza M.** NoRiskToBike (TRV2015) Sluttrapport. Göteborg: Chalmers University of Technology, 2016.
5. **Dozza M.** e-BikeWay (TRV2015) Sluttrapport. Göteborg: Chalmers University of Technology, 2015.
6. **Dozza M.** e-BikeSAFE (TRV2013) Sluttrapport. Göteborg: Chalmers University of Technology, 2014.
7. **Dozza M.** BikeSAFE (TRV2012) Sluttrapport. Göteborg: Chalmers University of Technology, 2013.
8. **Dozza M.** BikeSAFER: Final Report. Göteborg: Chalmers University of Technology, 2013.
9. Victor T., Bårgman J., **Dozza M.**, Rootzén H. *Initial Analyses from the SHRP 2 Naturalistic Driving Study - Addressing Driver Performance and Behavior in Traffic Safety*, 2012.*

Selected deliverables from European projects:

1. euroFOT – D2.1 Specifications & Requirements for Testing, 2009, *main author**
2. FESTA – D6.4 FESTA handbook (<http://www.its.leeds.ac.uk/festa/downloads.php>), 2008, *co-author**
3. Safespot – D4.3.3 Application communication for co-operative vehicles and infrastructure, 2008, *co-author**
4. PReVENT – PReVAL – D16.2 Results of Procedures, 2008, *co-author**
5. AIDE - D2.4.1 Evaluation of the AIDE demonstrators, 2008, *co-author**

*this publication did not undergo an external peer-review; however, it was reviewed by the project's partners and/or the project's sponsors.