



Part A. PERSONAL INFORMATION

First name	CANDIDA	Family name	CASTRO RAMIREZ
Gender (*)	Woman	Birth date (dd/mm/yyyy)	
Social Security, Passport, ID number		Researcher ID	
e-mail		Scopus:	
Open Researcher and Contributor ID (ORCID) (*)			

A.1. Current Position

Position	Professor	Initial Date	27-04-2022
Institution	University of Granada		
Department/Center	Experimental Psychology Department	CIMCYC, Mind, Brain and Behaviour Research Centre	
Country	Spain	Telephone number	
Key words	Applied Cognitive Psychology, Perception, Attention, Driving		

A.2. Previous positions (research activity interruptions, indicate total months)

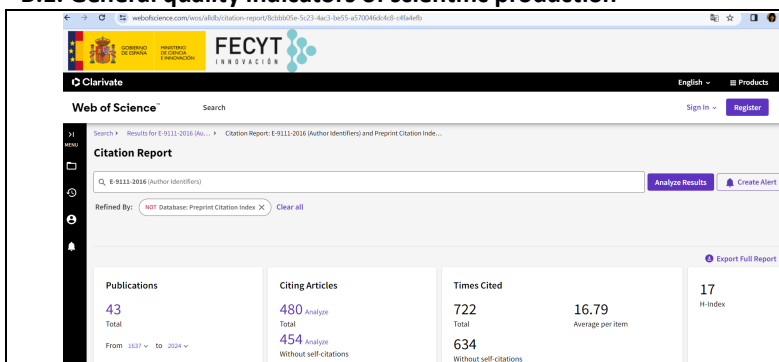
Period	Position/Institution/Country/Interruption cause
2003-2022	Senior Teacher
1996-2003	Lecturer

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Ph D.	University of Granada	2000
Licensed	University of Granada	1999

PART B. CV SUMMARY

B.1. General quality indicators of scientific production



"Sexenios" (Research Assessment, every 6 years):
3 (2 Research y 1 Transfer Merits) + 1 already submitted, January 2024
Date of the last research assessment achieved: 2017
Ph Supervised: 2
H-index: 17 **Publications:** 43
Total Cited: 722 **Average/item:** 16.79
Publications: Level 1. Q1 y Q2
7 Accident Analysis & Prevention
9 Transportation Research, Part F: *Traffic Psychology & Behaviour*
3 Applied Ergonomics
3 Acta Psychologica
2 Journal of Neuroscience Methods
1 Safety Science
1 *Psychology Research and Behavior Management*
1 Plos One

PhD supervisor: Análisis de la percepción de peligros y la estimación del riesgo para definir un perfil del conductor seguro (Hazard Perception and Risk Estimation analysis to define a Safe Driver Profile). **Author:** [Andrés Augusto Gugliotta](#) **PhD Supervisors:** [Cándida Castro Ramirez](#) & [José Luis Padilla García](#), [University of Granada](#) (Spain) 2018 URI: <http://hdl.handle.net/10481/49718> ISBN: 9788491637868

PhD supervisor: Measuring the three attentional networks in a vigilance context and their relationship with driving behaviour. **Author:** [Javier Roca Ruiz](#) **PhD Supervisors:** [Cándida Castro Ramirez](#), Sergio Moreno-Ríos, [University of Granada](#) (Spain) 2012 URI: <http://hdl.handle.net/10481/29394> ISBN: 9788490285756

B2. CV Summary

My research is centred on Applied Cognitive Psychology, focusing on Transport Safety. We study the cognitive processes related to driving: situation awareness (perception, comprehension, projection) and decision-making. Across several competitive research grants (16) and research contracts (16) I have displayed skills of team leadership (supervision of 16 hired researchers), financial planning and project management, in addition to the necessary research expertise. Our recent work involved in ascertain the cognitive skills while driving that could be shared by safe drivers regardless of the types of threat specific to each driving context. It also considers the type of driver (learner-novice-experienced, offender, with stroke) susceptible to specific training, his/her age, personality traits (sensation-seeking, impulsivity, anger, aggression, sensitivity to reward and to punishment, etc.) and/or driving styles (reckless, angry, anxious, distractive, cautious, etc.)

Related Research Topics: Assisting in the development of hazard perception testing and training tools applied to driving behaviour.

- We created the first hazard perception testing and training for Spain. It can be seen at the DGT (*Dirección General de Tráfico*), Spanish Department of Transport (<https://www.dgt.es/muevete-con-seguridad/conviertete-en-un-buen-conductor/percepcion-riesgo/>) <https://www.dgt.es/muevete-con-seguridad/conviertete-en-un-buen-conductor/percepcion-riesgo/>
- We developed a hazard perception test for bus drivers (for the International Road Transport Organisation, Geneva: <https://www.iru.org/es>).
- We developed the holistic Hazard Perception and Prediction test for walking, riding a bicycle and driving a car, to understand the global traffic situation.
- In collaboration with David Crundall (Nottingham Trent University; NTU, UK) we are involved in assessing the cross-cultural compatibility of hazard perception testing and training & risky decision making testing.
- In collaboration with Jose Luis Padilla, we conducted the validation for the Spanish language and driving habits in Spain of the: ARDES-Spain, ARDES-UK, and ARDES-Motorcyclists (Attention Related to Driving Errors Scale), MDSI-Spain (Multidimensional Driving Styles Inventory) FCRSS-Spain (Family Climate for Road Safety Scale), and SDCaF-Spain (Safe Driving Climate among Friends)

GRADUATES: Previous Researchers Hired	Current Researchers Hired
<ul style="list-style-type: none"> 1 Predoctoral Mari Curie Fellow (Mercedes Bueno García) 1 Predoctoral Grant and Lecturer, Nottingham Trent University, UK (Petya Ventsislavova) 2 Senior Teachers, University of Valencia (Javier Roca y M^a Fernanda López-Ramón) 1 Counselling Psychologist (Elsa Peña Suárez) 1 Working at the Spin-off "Virtual Solutions", Granada and Unit Manager, Computer Sciences Company, Málaga (Eduardo Eisman Cabeza) 1 PhD. Grant and Lecturer, University of Loyola, Seville (Irene Gómez Gómez) 1 PhD Colonia, Germany (Dörte Naber) 1 Lecturer, University of Salamanca (Nuria Sánchez) 1 Ph Grant (Belén Carrascal Caputto) (FPU) 1 Clinical Psychologist (Paloma Maciá Molina) 1 Occupational Therapist, Research Technician, Ana Clara Szot 	<ul style="list-style-type: none"> Pablo Doncel Aparicio Daniel Alberto Salazar Frías Lucía Laffarga



1 "Garantía Juvenil" Grant/PDC2021-12944-I00 (Andreea Ionela Dinu)

Research Topic 1: HAZARD PREDICTION AND RISKY DECISION MAKING (Example contribution)

Castro, C.* Ventsislavova P Peña-Suarez E Gugliotta A Garcia-Fernandez P Eisman E & Crundall D (2016) Proactive listening to a training commentary improves hazard prediction *Safety Science* 82 144-154 DOI:10.1016/j.ssci.2015.09.018 Q1 IF 2.157

5 RELATED PUBLICATIONS

Castro C.* Padilla JL Doncel P Garcia-Fernández P Ventsislavova P Eisman E & Crundall D (2019) *Applied Ergonomics* 81 DOI 10.1016/j.apergo.2019.102886 Q1 IF 2.61
Ventsislavova P Gugliotta A Peña-Suarez E Garcia-Fernandez P Eisman E Crundall D & Castro C.* (2016) *Accident Analysis & Prevention* 91 43-54 DOI:10.1016/j.aap.2016.02.013 Q1 I.F 2.07
Gugliotta A Peña-Suárez E Ventsislavova P Garcia-Fernandez P Eisman E Crundall D y Castro C.* *Transportation Research: Part F* 44 168-179 DOI:10.1016/j.trf.2016.11.005 Q2 I.F 1.935
Ventsislavova P Crundall D Bagueley T Castro C Gugliotta A Garcia-Fernandez P Zhang W Ba Y & Li Q (2019) *Accident Analysis & Prevention* 122 268-286 DOI 10.1016/j.aap.2018.10.010 Q1 IF 3.058
Muela I Chica A Garcia-Fernandez P & Castro C.* (2021). *Applied Ergonomics*, 89, 103235. DOI: 10.1016/j.apergo.2020.103235 Q1 IF: 3.145

6 RESEARCH PROJECTS (IP)

PID2020-113978RB-I00
PY20-RE-022 UGR
PDC2021-12944-I00
PSI2013-42729-P
P-BS-9
B-HUM-047-UGR18

TRANSFER CONTRACTS (Art. 83 de la Ley Orgánica 6/2001 de 29 Dic de Universidades)

-----OTRI-UGR IRU (INTERNATIONAL ROAD TRANSPORT ORGANISATION), Geneve, Switzerland, Contract nº 4083
-----0100DGT28931: DGT Contract nº 3768
-----0100DGT26856: DGT Contract nº 3620
-----0100DGT23259: DGT Contract nº 3330
-----0100DGT21263: DGT Contract nº 3157

1 PHD SUPERVISED: Gugliotta A. (2018) Análisis de la percepción de peligros y la estimación del riesgo para definir un perfil del conductor seguro

2 WORKING VISITS: NOTTINGHAM TRENT UNIVERSITY: ---1 month, 2015 y -6 months en 2018: Research Grant to Senior Teachers: PRX17/00149 Salvador Madariaga

RESEARCH TOPIC 2: ATENCIONAL NETWORK STUDIES (Example contribution)

Roca J Lupiáñez J López-Ramón M.F Castro C.* (2013) Are drivers' attentional lapses associated with the functioning of neurocognitive attentional networks and with cognitive failure in everyday life? *Transportation Research Part F-Traffic Psychology & Behaviour* 17 98-113 DOI 10.1016/j.trf.2012.10.005 Q2 IF 1.483

4 RELATED PUBLICATIONS

Roca J Castro C.* López-Ramón M.F Lupiáñez J (2011). *Journal of Neuroscience Methods* 198(2) 312-324 DOI 10.1016/j.jneumeth.2011.04.014 Q3 IF 1.980 :
Roca J Fuentes L Marotta A López-Ramón M.F Castro C.*; Lupiáñez J Martella D (2012) *Acta Psychologica* 140(2) 164-176 DOI:10.1016/j.actpsy.2012.03.007 Q2 IF 2.248
Roca J Crundall D Moreno-Ríos S Castro C.* & Lupiáñez J (2013) *Accident Analysis & Prevention* 50 1193-1206 DOI 10.1016/j.aap.2012.09.032 Q1 IF 2.571
Roca J García-Fernández P Castro C.* & Lupianez J (2018) *Journal of Neuroscience Methods* 308(1) 151-161 DOI 10.1016/j.jneumeth.2018.07.019 Q2 IF 2.668

2 RESEARCH PROJECTS (IP): P11-SEJ-7404. Junta Andalucía Proyecto Excelencia: PROYECTO MOTRIZ 2013-2018, PSI-2010-15883. MICINN 2011-2013

COMPANIES HIRED: Grupo 3 Estudios y Virtual Solutions

PhD SUPERVISED: Roca J (2013) Measuring the three attentional networks in a vigilance context and their relationship with driving behaviour

RESEARCH TOPIC 3: ADAPTATION OF QUESTIONNAIRES APPLIED TO DRIVING BEHAVIOR (Example contribution)

Castro C.* Padilla J.L Roca J Benitez I Garcia-Fernandez P Estevez B Lopez-Ramon M.F & Crundall D (2014) Development and validation of the Spanish hazard perception test *Traffic Injury and Prevention* 15(8): 817-826 DOI:10.1080/15389588.2013.879125 Q2 IF 1232

ADAPTATION OF QUESTIONNAIRES: HAZARD PREDICTION TEST AND TRAINING, ARDES-SPAIN (Attention-Related to Driving Errors Scale for Spanish drivers); ARDES-UK, ARDES-MOTORCYCLISTS, MDSI-SPAIN (Multidimensional Driving Styles Inventory for Spanish drivers); FCRSS-SPAIN (Family Climate for Road Safety); SDCaF-SPAIN (Safe Driving Climate among Friends for Spanish drivers).

López-Ramón M.F Castro C.*; Roca J Ledesma R Lupiáñez J (2011) *Traffic Injury Prevention* 12(5) 518-528 DOI: 10.1080/15389588.2011.588295 Q3 IF 1.079

Roca J Padilla J.L López-Ramón F.M Castro C.* Lupiáñez J (2013) *Transportation Research, Part F*. 21 43-51 DOI: 10.1016/j.trf.2013.09.001 Q2 I.F 1.482

Padilla JL Doncel P Gugliotta A & Castro C.* (2018) *Accident Analysis & Prevention* 119 237-247 DOI 10.1016/j.aap.2018.07.021 Q1 IF 3.058

Padilla JL Castro C.* Doncel P & Taubman-Ben-Ari O (2020) *Accident Analysis & Prevention* 136 105413 DOI 10.1016/j.aap.2019.105413 Q1 IF 3.058

Ledesma RD Ferrando PJ Trógolo MA Poó FM Tosi JD & Castro C (2021). *Transportation Research Part F*. 78, 340-352 DOI: 10.1016/j.aap.2023.107069 Q1 IF: 4.349

Padilla JL Sánchez N Doncel P Navarro-González MC Taubman-Ben-Ari O & Castro C.* (2023). *Transportation Research Part F*. 98 141-156 DOI: 10.1016/j.trf.2023.09.006 Q2 IF: 4.1

Doncel P Trógolo M Castro C.* Ledesma RD Taubman-Ben-Ari O Blanch MT & Padilla JL (2023) *Accident Analysis and Prevention*. 107276 Q1 DOI: 10.1016/j.aap.2023.107276 Q1. IF: 5.9

Ledesma RD* Padilla JL Tosi JD Sánchez N & Castro C.* (2023) *Accident Analysis & Prevention* 107069 DOI: 10.1016/j.aap.2023.107069 Q1. IF: 5.9

Castro*, C., et al. (2024). *Accident Analysis & Prevention* 195 DOI: 10.1016/j.aap.2023.107412 107412 Q1. IF: 5.9

2 RESEARCH PROJECTS (IP): SPIP2015-01782 and PSI2016-75086-P

INTERNATIONAL COLLABORATION: With Rubén D. Ledesma. CONICET. Argentina.

RESEARCH TOPIC 4: THINKING AND DRIVING (Example contribution)

Castro C.* Moreno-Ríos S Tornay F.J y Vargas C (2008) Mental Representation of Obligatory and Prohibitory Traffic Signs *Acta Psychologica* 129 8-17 DOI 10.1016/j.actpsy.2008.03.016 Q2 IF 2.194

RELATED PUBLICATION

Vargas C Moreno-Ríos S Castro C.* y Underwood G (2011) *Acta Psychologica* 137(1) 106-114 DOI 10.1016/j.actpsy.2011.03.006 2.255 Q2 IF 2.255

Roca J Castro C.*; Bueno M y Moreno-Ríos S (2012) *Applied Ergonomics* 43(1) .81-88 DOI 10.1016/j.apergo.2011.03.010 Q1 IF 1.728

3 RESEARCH PROJECTS (IP): P07-SEJ-02613, SEJ2007-61843-PSIC and-SEJ-2004-0551/PSIC

WORKING STAY: 2009 (2m) University of Nottingham UK (Applied Research Unit, ARU) Collaboration with David Crundall

RESEARCH TOPIC 5: OFFENDER DRIVERS AND SUBSTANCE USE (SCREENING+ MOTIVATIONAL INTERVENTION) (Example contribution)

Castro, C.*A, Doncel, P., Dinu, A.I. & Padilla, F. (2023). Strong predictors of offender drivers: drug and alcohol addiction and the inability to dissociate binge alcohol or drug consumption from driving. Revoking their driver's licence may not be enough. *Transportation Research Part F. Traffic Psychology & Behaviour*, 92, 337-352 DOI: [10.1016/j.trf.2022.12.002](https://doi.org/10.1016/j.trf.2022.12.002) ISSN: 1369-8478 Q2 IF: 4.349

RELATED PUBLICATION

Padilla, J.L., Doncel, P., Gugliotta, A. & Castro, C.*A (2018). Which drivers are at risk? Factors that determine the profile of the reoffender driver, *Accident, Analysis and Prevention*, 119, 237-247. DOI: [10.1016/j.aap.2018.07.021](https://doi.org/10.1016/j.aap.2018.07.021) ISSN:0001-4575 Q1 IF: 3.058

1 RESEARCH PROJECT (IP):

PND-020-019: Reincidencia en tráfico asociada al consumo de drogas: Screening, Intervención Motivacional Breve (IMB) y Derivación en Tratamiento.

RESEARCH TOPIC 6: PSYCHOPHYSICAL CHARACTERISTICS AND DRIVING: "FITNESS TO DRIVE"

2 RESEARCH PROJECTS (IP): A-SEJ-114-UGR20 Y P20_00338.

TRANSFER CONTRACT I+D+i (Artículo 83): 3DGT6A000126: Servicio para la elaboración de un estudio del efecto de las condiciones psicofísicas sobre la seguridad vial. Funding Source: DGT. Contract nº 5846. Participating Institutions: University of Granada, Duration, from: 29/03/2023 until: 19/12/2023 IP Cándida Castro.

COLLABORATION: With María Rodríguez Bailón. Terapia Ocupacional. Ciencias de la Salud. Universidad de Málaga.



Part C. RELEVANT MERITS

C.1. Publications (*CA: Corresponding author ^IP: Principal Investigator) (IF: Impact Factor:)

- Castro^{*, CA}, Doncel, P., Ledesma, R.D., Montes, Barragan, Oviedo-Trespalacios, Bianchi, Kauer, N., Qu, W & Padilla, J.L. (2024). Measurement invariance of the driving inattention scale (ARDES) across 7 countries. *Accident, Analysis & Prevention*, *195*, [10.1016/j.aap.2023.107412](https://doi.org/10.1016/j.aap.2023.107412) 107412 ISSN: 0001-4575 Q1. IF: 5.9
- Padilla, J. L., Sánchez, N., Doncel, P., Navarro-González, M.C., Taubman – Ben -Ari, O. & Castro, C.^{*, CA} (2023). The young male driving problem: Relationship between Safe Driving Climate among Friends, Peer Pressure and Driving Styles. *Transportation Research Part F. Traffic Psychology & Behaviour*, *98*, 141-156 [DOI: 10.1016/j.trf.2023.09.006](https://doi.org/10.1016/j.trf.2023.09.006) ISSN: 1369-8478 Q2 IF: 4.1
- Doncel, P., Trógolo, M., Castro, C.^{*, CA} Ledesma, R.D., Taubman – Ben-Ari, O. Blanch, M.T. & Padilla, J.L. (2023). Parenting in the context of driving: Spanish adaptation of the Family Climate for Road Safety (FCRSS) for parents and children. *Accident Analysis and Prevention*. 107276 Q1 [DOI: 10.1016/j.aap.2023.107276](https://doi.org/10.1016/j.aap.2023.107276) ISSN: 0001-4575 Q1. IF: 5.9
- Ledesma, R.D.^{*}, Padilla, J.L. Tosi, J.D., Sánchez, N. & Castro, C.^{*, CA} (2023). Motorcycle rider error and engagement in distracting activities: A study using the Attention-Related Driving Errors Scale (ARDES-M). *Accident, Analysis & Prevention*, 107069 [DOI: 10.1016/j.aap.2023.107069](https://doi.org/10.1016/j.aap.2023.107069) ISSN:0001-4575 Q1. IF: 6.276
- Castro, C.^{*, CA}, Doncel, P., Dinu, A.I. & Padilla, F. (2023). Strong predictors of offender drivers: drug and alcohol addiction and the inability to dissociate binge alcohol or drug consumption from driving. Revoking their driver's licence may not be enough. *Transportation Research Part F. Traffic Psychology & Behaviour*, *92*, 337-352 [DOI: 10.1016/j.trf.2022.12.002](https://doi.org/10.1016/j.trf.2022.12.002) ISSN: 1369-8478 Q2 IF: 4.349
- Ventsislavova, P.^{*}, Crundall, D., García-Fernández, P. & Castro, C.^{*, CA} (2021). Assessing willingness to engage in risky driving behaviour using naturalistic driving footage: the role of age and gender. *International Journal of Environmental Research and Public Health*, *18* (19): 10227. [DOI: 10.3390/ijerph181910227](https://doi.org/10.3390/ijerph181910227) ISSN 1661-7827 Q1 IF: 4.614
- Castro, C.^{*, CA} Ventsislavova, P., García-Fernandez, P. & Crundall, D. (2021). Risky Decision Making and Hazard Prediction are negatively related and could be assessed independently using driving footage. *Psychology Research and Behavior Management*, *14*, 857-876, [DOI: 10.2147/PRBM.S305979](https://doi.org/10.2147/PRBM.S305979) ISSN: 1179-1578 Q2 IF: 2.030
- Ledesma, R.D., Ferrando; P.J., Trógolo, M.A., Poó; F.M, Tosi, J.D., & Castro, C. (2021) Exploratory factor analysis in transportation research: current practices and recommendations. *Transportation Research Part F. Traffic Psychology & Behaviour*, *78*, 340-352 [DOI: 10.1016/j.trf.2021.02.021](https://doi.org/10.1016/j.trf.2021.02.021) ISSN: 1369-8478 Q1 IF: 4.349
- Muela I, Chica A, García-Fernandez P, & Castro C.^{*, CA} (2021). Visual attention in realistic driving situations: Attentional capture and Hazard Prediction. *Applied Ergonomics*, *89*, 103235. [DOI: 10.1016/j.apergo.2020.103235](https://doi.org/10.1016/j.apergo.2020.103235) ISSN: 0003-6870 Q1 IF: 3.145
- Castro, C.^{*, CA}, Muela, I., Doncel, P. & García-Fernandez, P. (2020). Hazard Perception and Prediction test for walking, riding a bike and driving a car: "Understanding of the global traffic situation". PLOS ONE 15(10): e0238605, [DOI: 10.1371/journal.pone.0238605](https://doi.org/10.1371/journal.pone.0238605) ISSN 1932-6203 Q1 IF: 2.71
- Padilla, J.L., Castro, C.^{*, CA}, Doncel, P. & Taubman – Ben-Ari, O., (2020) Adaptation of the multidimensional driving styles inventory for Spanish drivers: Convergent and predictive validity evidence for detecting safe and unsafe driving styles. *Accident Analysis and Prevention*, *136*, 105413, [DOI: 10.1016/j.aap.2019.105413](https://doi.org/10.1016/j.aap.2019.105413) ISSN:0001-4575 Q1. IF: 3.655
- Muela, I., Chica, A.B., García-Fernández & Castro, C.^{*, CA} (2019). Attention capture in hazard prediction and its relation with the effect of driving experience. *Traffic Injury Prevention*. [DOI: 10.1080/15389588.2019.1665426](https://doi.org/10.1080/15389588.2019.1665426)
- Castro, C.^{*, CA}, Padilla, J.L., Doncel, P., García-Fernández, P., Ventsislavova, P, Eisman, E., & Crundall, D. (2019). How are Distractibility and Hazard Prediction in driving related? Role of driving experience as moderating factor. *Applied Ergonomics*, *81*, 102886, [DOI: 10.1016/j.apergo.2019.102886](https://doi.org/10.1016/j.apergo.2019.102886) ISSN:0003-6870 Q1 IF: 3.145
- Ventsislavova, P., Crundall, D., Bagueley, T. Castro, C., Gugliotta, A., García-Fernandez, P. Zhang, W. Ba, Y., Li, Q. (2019). A comparison of hazard perception and hazard prediction test across China, Spain and the UK. *Accident Analysis and Prevention*, *122*, 268-286 [DOI: 10.1016/j.aap.2018.10.010](https://doi.org/10.1016/j.aap.2018.10.010) ISSN:0001-4575 Q1 IF: 3.058
- Roca, J., García-Fernández, P., Castro, C. & Lupianez, J. (2018). The moderating effects of vigilance on other components of attentional functioning. *Journal of Neuroscience Methods*, *308*(1), 151-161 [DOI: 10.1016/j.jneumeth.2018.07.019](https://doi.org/10.1016/j.jneumeth.2018.07.019) ISSN: 0165-0270 Q2 IF: 2.668
- Padilla, J.L., Doncel, P., Gugliotta, A. & Castro, C.^{*, CA} (2018). Which drivers are at risk? Factors that determine the profile of the reoffender driver. *Accident, Analysis and Prevention*, *119*, 237-247. [DOI: 10.1016/j.aap.2018.07.021](https://doi.org/10.1016/j.aap.2018.07.021) ISSN:0001-4575 Q1 IF: 3.058
- Gugliotta, A, Peña-Suárez, E., Ventsislavova, P., García-Fernandez, P., Eisman, E., Crundall, D. y Castro, C.^{*, CA} (2017). Are Situation Awareness and Decision-Making in driving totally conscious processes? Results of a Hazard Prediction task. *Transportation Research, Part F*, *44*, 168-179. [DOI: 10.1016/j.trf.2016.11.005](https://doi.org/10.1016/j.trf.2016.11.005) ISSN: 1369-8478 Q2 IF 1.935
- Peña-Suárez, E., Padilla, J.L, Ventsislavova, P., Roca, J., López-Ramón, M.F., & Castro, C.^{*, CA} (2016). Assessment of proneness to distraction: English adaptation and validation of the Attention Related Driving Errors Scale (ARDES) and cross-cultural equivalence. *Transportation Research Part F*: *43*, 357-365. [DOI: 10.1016/j.trf.2016.09.004](https://doi.org/10.1016/j.trf.2016.09.004). ISSN: 1369-8478 Q2 IF 1.444
- Castro, C.^{*, CA}, Ventsislavova, P, Peña-Suarez, E. Gugliotta, A., García-Fernandez, P. Eisman, E., & Crundall, D. (2016). [Proactive listening to a training commentary improves hazard prediction](https://doi.org/10.1016/j.ssci.2015.09.018), *Safety Science*, *82*, 144-154 [DOI:10.1016/j.ssci.2015.09.018](https://doi.org/10.1016/j.ssci.2015.09.018). ISSN: 0925-7535 Q1 IF 2.157
- Ventsislavova, P. Gugliotta, A., Peña-Suarez, E., García-Fernandez, P., Eisman, E., Crundall, D. & Castro, C.^{*, CA} (2016). What happens when drivers face hazards on the road? *Accident, Analysis and Prevention*, *91*, 43-54 [DOI:10.1016/j.aap.2016.02.013](https://doi.org/10.1016/j.aap.2016.02.013) ISSN:0001-4575 Q1 IF; 2.07
- Castro, C.^{*, CA}, Padilla, J.L., Roca, J., Benitez, I, García-Fernandez, P, Estevez, B, Lopez-Ramon, M.F. & Crundall, D. (2014). Development and validation of the Spanish hazard perception test. *Traffic, injury and Prevention*, *15*(8): 817-826 [DOI:10.1080/15389588.2013.879125](https://doi.org/10.1080/15389588.2013.879125). ISSN: 1538-9588 Q2 IF: 1,232
- Roca, J., Lupiáñez, J.; López-Ramón, M.F.; & Castro, C.^{*, CA} (2013). Are drivers' attentional lapses associated with the functioning of neurocognitive attentional networks and with cognitive failure in everyday life? *Transportation Research Part F-Traffic Psychology and Behaviour*, *17*, 98-113. [DOI: 10.1016/j.trf.2012.10.005](https://doi.org/10.1016/j.trf.2012.10.005) ISSN: 1369-8478 Q2 IF: 1.483
- Roca, J.; Crundall, D.; Moreno-Ríos, S.; Castro, C.^{*, CA} & Lupiáñez, J. (2013). The influence of differences in the functioning of the neurocognitive attentional networks on drivers' performance. *Accident Analysis and Prevention*, *50*, 1193-1206. [DOI: 10.1016/j.aap.2012.09.032](https://doi.org/10.1016/j.aap.2012.09.032) ISSN: 0001-4575 Q1 IF: 2.571
- Roca, J.; Padilla, J.L.; López-Ramón, F.M., Castro, C.^{*, CA} & Lupiáñez, J. (2013). Assessing individual differences in driving inattention: Adaptation and validation of the Attention-Related to Driving Errors Scale. *Transportation Research, F: Traffic Psychology and Behaviour*, *21*, 43-51. [DOI: 10.1016/j.trf.2013.09.001](https://doi.org/10.1016/j.trf.2013.09.001) Q2 IF 1,482
- Roca, J.; Fuentes, L.; Marotta, A.; López-Ramón, M.F., Castro, C.^{*, CA} Lupiáñez, J.; & Martella, D. (2012). The effects of sleep deprivation on the attentional functions and vigilance, *Acta Psychologica*, *140*(2), 164-176. [DOI:10.1016/j.actpsy.2012.03.007](https://doi.org/10.1016/j.actpsy.2012.03.007) ISSN: 0001-6918 Q2 IF: 2.248
- Roca, J., Castro, C.^{*, CA}, Bueno, M., & Moreno-Ríos, S. (2012). A driving-emulation task to study the integration of goals with obligatory and prohibitory traffic signs, *Applied Ergonomics*, *43*(1), 81-88. [DOI: 10.1016/j.apergo.2011.03.010](https://doi.org/10.1016/j.apergo.2011.03.010) ISSN:0003-6870 ISSN: 0003-6870 Q1 IF: 1.728.
- Roca, J., Castro, C.^{*, CA}; López-Ramón, M.F.; & Lupiáñez, J. (2011). Measuring vigilance while assessing the functioning of the three attentional networks: The ANTI-Vigilance task, *Journal of Neuroscience Methods*, *198*(2), 312-324. [DOI: 10.1016/j.jneumeth.2011.04.014](https://doi.org/10.1016/j.jneumeth.2011.04.014). ISSN: 0165-0270 Q3 IF: 1.980
- López-Ramón, M.F.; Castro, C.^{*, CA} Roca, J.; Ledesma, R.; & Lupiáñez, J. (2011). Attentional Networks Functioning, Age, and Attentional Lapses While Driving, *Traffic Injury Prevention*, *12*(5), 518-528. [DOI: 10.1080/15389588.2011.588295](https://doi.org/10.1080/15389588.2011.588295) ISSN: 1 538-9588 Q3 IF: 1.079
- Vargas, C., Moreno-Ríos, S., Castro, C.^{*, CA} & Underwood, G. (2011). Encoding time and signs exposure time in the representation of diagrammatic deontic meanings. *Acta Psychologica*, *137*(1), 106-114. [DOI: 10.1016/j.actpsy.2011.03.006](https://doi.org/10.1016/j.actpsy.2011.03.006) ISSN: 0001-6918 Q2 IF 2.5
- Castro, C.^{*, CA}, Moreno-Ríos, S., Tornay, F.J. & Vargas, C. (2008). Mental representations of obligatory and prohibitory traffic signs. *Acta Psychologica*, *129*(1), 8-17. [DOI: 10.1016/j.actpsy.2011.03.006](https://doi.org/10.1016/j.actpsy.2011.03.006) ISSN: 0001-6918 Q2 IF 2.248
- Castro, C.^{*}, Martínez, C., Tornay, F.J. García-Fernandez, P., & Martos, F.J. (2005). Vehicle distance estimations in nighttime driving: a real-setting study, *Transportation Research Part F: Traffic Psychology and Behaviour*, *8*(1) 31-45. [DOI: 10.1016/j.trf.2004.12.001](https://doi.org/10.1016/j.trf.2004.12.001) ISSN: 1369-8478-8478

C.2. RESEARCH PROJECTS (IP)

- Project Title: PY20-RE-022 UGR. Test de Predicción de Peligros y Estimación del Riesgo para evaluar el perfil del conductor seguro: Utilidad de su implementación en Realidad Virtual (VR) y APPs. [[Hazard Prediction and Risk Estimation test to evaluate the safe driver: Usefulness of its implementation in Virtual Reality VR and Apps](#)]. [Proyecto Colaborativo](#). Funding source: Actuaciones Cofinanciadas por el Programa Operativo FEDER en Andalucía para el período 2014-2020. Participating institutions: University of Granada. OTRI. Duration, from: 10/07/2020 until: /31/12/2022. Budget: 85.730 € I.P.: Cándida Castro
- Project Title: PDC2021-12944-I00. Prueba de concepto de Test de Predicción de Peligros y Toma de Decisiones Arriesgada implementados en PC, APPs, 3D, Elumens. Visionstation para evaluar y entrenar a conductores. [[Proof of concept of the Hazard Prediction and Risky Decision Making Test implemented in PC, APPs, 3D-Goggles, Vision Elumens for drivers sreening and training purposes](#)] Funding source: Ministerio de Ciencia e Innovación (MICINN). Participating institutions: University of Granada Duration, from: 01/12/2021 until: 31/12/2023. Budget: 92.000 € I.P.: Cándida Castro
- Project Title: A-SEJ-114-UGR20. Evaluación de la Capacidad de Conducir "Fitness To Drive" Después de Sufrir Daño Cerebral: Pacientes Con Ictus o ACV (Accidente Cerebro Vascular) Acrónimo Fit-To-Drive. [[Evaluation of "fitness to drive" after suffering brain damage: patients with stroke](#)] Funding source: Junta de Andalucía. Proyectos de I+D+i en el marco del Programa Operativo FEDER para el período 2014-2020. Participating institutions: University of Granada. Duration, from: 01/01/2022 until: 31/06/2023. Budget: 50.000 € I.P.: Cándida Castro

4. Project Title: PID2020-113978RB-I00: Habilidad, Edad y Rasgos: Percepción de Peligros y Toma de decisiones arriesgada. [Skill, Age and Character Traits: Hazard Perception and Risky Decision-Making in Driving] Funding source: Ministerio de Ciencia e Innovación (MICINN). Participating institutions: University of Granada Duration, from: 01/01/2022 until: 31/12/2024. Budget: 96.800 € I.P.: Cándida Castro
5. Project Title: P20_00338: Elaboración de un Protocolo de evaluación sensible a los procesos cognitivos necesarios para la conducción después de sufrir daño cerebral. [A first Spanish evaluation protocol based on the analysis of variables that can predict safe "driving capacity" after suffering brain damage]. Funding source: I+D+i PAIDI, Junta de Andalucía. Participating institutions: University of Granada. Duration, from: 01/01/2021 until: 31/06/2023 Budget: 51.000 € I.P.: Cándida Castro
6. Project Title: PND-020-019: Reincidencia en tráfico asociada al consumo de drogas: Screening, Intervención Motivacional Breve (IMB) y Derivación en Tratamiento. [Screening, Brief Motivational Intervention and Referral to Treatment, applied to a sample of Spanish recidivist drivers] Funding source: Ministerio de Sanidad, Consumo y Bienestar Social (MSCBS) Plan Nacional sobre Drogas. Proyectos de investigación sobre adicciones en el año 2020. Participating institutions: University of Granada Duration, from: 01/01/2021 until: 31/12/2023 Budget: 38.253,78 € I.P.: Cándida Castro
7. Project Title: B-HUM-047-UGR18. Neuroanálisis de la Percepción de Peligros del tráfico: Validación e Implementación de Test from la perspectiva del peatón, el ciclista y el conductor de turismo y autobús en aplicaciones WEB para la acreditación e intervención. [Neuroanalysis of Hazard Perception on the road: validation and implementation of the test from the perspective of pedestrians, cyclists, car and bus drivers in APPs for accreditation and intervention] Funding source: Proyectos I+D+i del Programa Operativo FEDER 2018 Andalucía. Participating institutions: University of Granada Duration, from: 10/11/2019 until: 30/09/2022 Budget: 6.400 € I.P.: Cándida Castro
8. Project Title: PSI2016-75086-P: El conductor Nace y se Hace: Percepción de Peligros y Asunción de Riesgos: Influencia del Entrenamiento, los Estilos de Conducción y el Clima Familiar en la Conducción [Drivers are both born and made: The relationship between Hazard Perception and Risk-Taking. The influence of training, driving style and family ethos for road safety] Funding source: MICINN Participating institutions: University of Granada Duration, from: 30/12/2016 until: 30/09/2020 Budget: 81.675,00 € I.P.: Cándida Castro
9. Project Title: SPIP2015-01782: Comprensión de la problemática de la reincidencia y la conducción de los mayores para el diseño de estrategias de intervención y entrenamiento [Why to tackle an analysis of the offender and elderly drivers exploring Hazard Perception, Risk Estimation, Anger, Aggressive Driving and Distractions?] Funding source: DGT Participating institutions: University of Granada Duration, from: 15/12/2015 until: 15/12/2016 Budget: 42.033,20 € I.P.: Cándida Castro
10. Project Title: PSI2013-42729-P: Percepción de peligro, detección del peligro, conducción, conciencia situacional. [Hazard Perception, Hazard Detection and Situation Awareness] Funding source: MICINN Participating institutions: University of Granada Duration, from: 01/01/2014 until: 31/12/2017. Budget: 41.140,00 € I.P.: Cándida Castro
11. Project Title: P-BS-9. Evaluación y Entrenamiento de Percepción de Peligros Albergados en Plataforma Web. [Hazard Perception Assessment and Training implemented in a webpage]. Funding source: CEI-BioTic -Junta de Andalucía Participating institutions: University of Granada Duration, from: 28/05/2014 until: 31/12/2014 Budget: 21.500 € I.P.: Cándida Castro
12. Project Title: P11-SEJ-7404. Componentes de la Atención en conducción: Medidas Comportamentales, datos de autoinforme y tasas de accidentalidad. [Components of Attention in driving: Behavioural measures, self-performance data and accidents rates]. Funding source: Junta de Andalucía, Proyectos Excelencia: PROYECTO MOTRIZ Participating institutions: University of Granada Duration, from: 27/03/2013 until: 31/03/2018 Budget: 121.024,54 € I.P.: Cándida Castro
13. Project Title: PSI-2010-15883. Explicando la distracción del conductor y los fallos en el reparto de recursos en conducción desde el análisis de los procesos de pensamiento y atención. [Explaining the driver's distraction and the failures in the distribution of resources in driving from the analysis of the processes of Thinking and Attention] Funding source: MICINN Participating institutions: University of Granada Duration, from: 01/01/2011 until: 31/12/2013 Budget: 72.600,00 € I.P.: Cándida Castro
14. Project Title: P07-SEJ-02613. Procesos cognitivos implicados en el procesamiento de la información de las señales de tráfico. [Cognitive processes involved in the processing of traffic signals information] Funding source: Junta de Andalucía. Proyectos de Investigación de Excelencia. Participating institutions: University of Granada Duration, from: 01/02/2008 until: 31/12/2012 Budget: 132.000,00 € I.P.: Cándida Castro
15. Project Title: SEJ2007-61843-PSIC. Deducción a partir de las premisas pictóricas del tráfico: señales de obligación y prohibición. [Deduction from the pictorial premises of traffic signs of Obligation and Prohibition] Funding source: MEC Participating institutions: University of Granada Duration, from: 01/02/2007 until: 31/12/2012 Budget: 121.968 € I.P.: Cándida Castro
16. Project Title: SEJ-2004-0551/PSIC: Análisis y evaluación de los Procesos Cognitivos implicados en el procesamiento de la información de las señales de tráfico, las señales de mensajería variable y las señales de ferrocarril. [Analysis and assessment of the Cognitive Processes involved in the information processing of traffic signs, Variable Message Signs (VMS) and railway signing] Funding source: MEC Participating institutions: University of Granada Duration, from: 13/12/2004 until: 13/12/2007 Budget: 20.700,00 € I.P.: Cándida Castro

C.3. CONTRACTS, TECHNOLOGICAL OR TRANSFER MERITS. I+D+i (Art. 83, Ley Orgánica 6/2001 de 29 Dic. Universidades).

CONTRATS (Art. 83) by COMPANIES (IP)

- CONTRACT TITLE: Contract nº 4083 OTRI-UGR. Superior certification programme to train and assess driver candidates and demonstrating the quality of existing drivers: Development of the hazard perception part of the Assessment Media Consultancy Agreement, (IRU Academy Expert Driver Assessment Funding Source: IRU: International Road Transport Organisation). Geneva: <https://www.iru.org/es> Participating Institutions: University of Granada (UGR) y ALSA Duration, from: 01/05 /2018 until: 31/05/2019 Budget: 28000,80 € I.P.: Cándida Castro

CONTRACTS (Art. 83) by Governments (IP): Dirección General de Tráfico (DGT), Spanish Department of Transport (IP)

- CONTRACT TITLE: 3DGT6A000126: Servicio para la elaboración de un estudio del efecto de las condiciones psicofísicas sobre la seguridad vial, Funding Source: DGT. Contract nº 5846. Participating Institutions: University of Granada, Duration, from: 29/03/2023 until: 19/12/2023 Budget: 15.684,88 € I.P.: Cándida Castro
- CONTRACT TITLE: 0100DGT28931: Servicio de mejora y desarrollo del módulo de Percepción del Riesgo en la web de la Dirección General de Tráfico (DGT) " Contract nº 3768 Funding Source: DGT. Participating Institutions: University of Granada. Duration, from: 06/06/2016 until: 31/12/2016 Budget: 21.659 € I.P.: Cándida Castro
- CONTRACT TITLE: 0100DGT26856: "Elaboración del módulo de percepción del riesgo en la web de la DGT " Contract nº 3620 Funding Source: DGT Participating Institutions: University of Granada. Duration, from: 06/16/2015 until: 31/12/2015 Budget: 21.659 € I.P.: Cándida Castro
- CONTRACT TITLE: 0100DGT23259: Desarrollo y validación de una versión nueva del test de percepción de peligros: sensibilidad al entrenamiento mediante comentarios instructivos. Contract nº 3330 Funding Source: DGT. Participating Institutions: University of Granada. Duration, from: 08/10/2013 until: 31/12/2013 Budget: 21.659 € I.P.: Cándida Castro [Executive Memory: Hazard Perception I: Training](#)
- CONTRACT TITLE: 0100DGT21263: Hazard Perception: Aproximación inicial a la tarea de percepción de peligros del tráfico en el contexto español. Contract nº 3157 Funding Source: DGT. Participating Institutions: University of Granada, Duration, from: 17/09/2012 until: 31/12/2012 Budget: 21.659 € I.P.: Cándida Castro [Executive Memory: Hazard Perception I: Assessment](#) <https://www.dgt.es/conoce-la-dgt/que-hacemos/conocimiento-e-investigacion/index.html?reloaded&page=2>

CONTRACT (Art. 83) by Governments (Research team): DGT

- CONTRACT TITLE: 0100DGT21403: Conocimientos, creencias y actitudes relacionadas con la práctica de los Sistemas de Retención Infantil (S.R.I.) Funding Source: DGT. Participating Institutions: University of Granada. Duration, from: 17/09/2012 until: 31/12/2012 Budget: 21.659 € I.P.: Cándida Castro [Executive Memory: SRI](#) <https://www.dgt.es/conoce-la-dgt/que-hacemos/conocimiento-e-investigacion/index.html?reloaded&page=2>

C4. PRIZES: "Best poster presentation"

- Castro, C., Gugliotta, A., Ventsislavova, P., Peña-Suárez, E., García-Fernández, P., Eisman, E. & Crundall, D. (2016): «Attention related to driving and hazard discrimination from the driving environment» EPS-SEPEX Conference in Oxford (UK) 2016 <https://websepep.com/premio-sepep-al-mejor-poster-del-congreso-eps-sepep-2016/> (accésit)
- Muela, I., Chica, A.B., García-Fernández, P. y Castro, C (2019): "¿Cómo le afecta a la Predicción de Peligros y a la Estimación del Riesgo la manipulación de la orientación espacial y la experiencia en conducción?" III Jornadas Científicas del CIMCYC (Centro de Investigación Mente, Cerebro y Comportamiento). 16-17 May 2019.

Prize "Best publication" (CA/ Supervision)

- Excellence in research scientific publication award for young researchers, 2016 SEPEX (Spanish Society of Experimental Psychology). <https://websepep.com/premio-a-la-mejor-publicacion-cientifica-del-ano-2016-2/> (accésit) Ventsislavova, P., Gugliotta, A., Peña-Suarez, E., Garcia-Fernandez, P., Eisman, E., Crundall, D., & Castro, C. (2016). What happens when drivers face hazards on the road? *Accident, Analysis and Prevention*, 91, 43-54.

C5. Working Visit

Salvador de Madariaga", PRX-019 del Ministerio de Educación, Cultura y Deporte, MICINN

SCHOOL OF SOCIAL SCIENCES, PSYCHOLOGY, NOTTINGHAM TRENT UNIVERSITY, NOTTINGHAM, UK Collaboration with Prof. David Crundall & Petya Ventsislavova, *Applied Cognitive Research Group*. 6 months: From 1 Mars, 2018 until 31 August 2018, Budget: 19.620,00 €