CURRICULUM VITAE ABREVIADO (CVA)

RAQUEL VILAR LÓPEZ

A.1. Current position

Position	Professor		
Initial date	18/01/2017		
Institution	Universidad de Granada		
Department/Center	Mind, Brain and Behavior Research Center		
Country	Spain	Teleph. number	
Key words	Clinical Neuropsychology; Obesity; Excess Weight; Neuroimaging		

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

Period	Position/Institution/Country/Interruption cause
2019-2020	Interruption: Maternity leave (6 months)
2013-2017	Permanent Assisstant Professor/Universidad de Granada
2009-2013	Assisstant Professor/Universidad de Granada
2008-2009	Temporary substitute profesor/Universidad de Granada
2007-2008	Lecturer/University of North Carolina Wilmington (USA)

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD in Psychology	Universidad de Granada	2007
Licensed in Psychology	Universidad de Granada	2003

Part B. CV SUMMARY

Throughout my scientific career I have developed three lines of research. The first, derived from my doctoral thesis, focused on the detection of malingering of neuropsychological symptoms, within the area of forensic neuropsychology. With the TEA publishing house, we adapted the TOMM test, which is the only one available for the detection of neuropsychological malingering available in the Spanish market. Perhaps because of this, the TOMM has been administered to more than 15,000 people since 2011, which means, only in annotation booklets (not counting sales of the manual and administration material), sales of more than 30,000 euros. These figures are indicative of the wide acceptance that this test has had among Spanish psychologists. Within this line I have published 7 scientific articles and 4 book chapters (1st or only author in all of them), with results on the Spanish validation of 4 other simulation tests. Five of these publications have been in collaboration with Dr. Puente, from UNCW (USA), one of the most important international forensic neuropsychologists, and former president of the APA. I teach a subject on this topic in an Expert course at the Autonomous University of Madrid, and another at the University of Almeria.

The second line focuses on the neuropsychology of substance addictions. Within this prolific line we have demonstrated the importance of conducting neuropsychological evaluations of users of addiction treatment centers, because of the importance of these data to guide psychological treatments, predict their outcome, and assess interventions. I have maintained a close and continuous collaboration, since 2008, with the Provincial Centers for Drug Addiction of Granada and Malaga, with the association Proyecto Hombre, with the City Council of Vigo and its Local Plan on Drug Addiction, and with the CEDRO Center. Through these collaborations I have given numerous talks and training workshops for professionals of the centers, as well as informative workshops for users and the general public. In addition, I have conducted numerous patient evaluations for center clinicians and supervised the training of professionals. In short, I have contributed to consolidating the role of neuropsychology in drug dependence. Furthermore, thanks to the development of a project as PI, we managed to implement within the Hospital Universitario Virgen de las Nieves a Motivational Interviewing intervention for the treatment of patients admitted for trauma related to substance use, reducing recidivism by more than 50%, and demonstrating significant savings for the health system. In addition, I have collaborated in

two other projects on the neuropsychology of addictions, publishing a total of 21 articles in prestigious journals. I teach a subject in the master's degree on drug addictions at the University of Valencia.
Finally, and as a continuation of the previous line, the line of neuroscience of excess weight is derived. The vision of obesity as food addiction is a novel perspective and our group has contributed significantly to the characterization of both brain and cognitive alterations linked to excess weight. From this characterization I have moved, in recent years, to focus on the treatment of excess weight from a neuroscientific perspective. In this line, I have directed together with the co-IP of the present proposal a project of the Ministry from which important international collaborations have been generated (University of Exeter, Monash University), and we are working on the publication of 6 articles derived from it. We have just been awarded another project in the last call for Excellence of the Junta de Andalucía, and I have collaborated as a researcher in another one, generating a total of 12 scientific articles in prestigious journals.
The projects in which I have collaborated total 1.5 million € (300,000 € as PI). I have more than 50 articles in WoS (about 791 citations). Regarding internationalization, I have collaborated with a total of 25 international researchers in the publication of 20 articles. These researchers belong to various universities in Australia, the United Kingdom and the United States. I have also collaborated, on an ad hoc basis, with authors from universities in Canada, Chile and the Dominican Republic.
Regarding my scientific-technical skills, it is worth mentioning my specialization in analysis and evaluation with functional magnetic resonance techniques, the evaluation of the most molecular aspects of cognition, and neuroscientific treatments applied to people with excess weight.
I am currently directing 3 FPU and 5 doctoral theses. I have co-directed 4 theses, which have resulted in 14 articles; all doctoral students are currently employed in different national and foreign universities. I am an evaluator for the AEI.

Part C. RELEVANT MERITS

C.1. Publications

All of the following publications made significant contributions to the understanding of brain and cognitive functioning in people with excess weight:

González-González R, Solier-López L, Vilar-López R, Verdejo-García A, Navarro-Pérez CF, Caracuel A. (2025). Online Mental Contrasting with Implementation Intentions for changing snacking behavior and reducing body mass index in people with excess weight: a randomized controlled trial. *Appetite, 214*, 108209. doi: 10.1016/j.appet.2025.108209.

Bernat-Villena A, Pérez-Comino FJ, Becerra-Losada M, Algarra-López LS, Caracuel A, Vilar-López R. (2025). Intermittent theta burst stimulation (iTBS) and inhibitory control training for excess weight treatment: study protocol for a randomized controlled trial (InhibE). *BMC Psychology, 13*, 225. doi: 10.1186/s40359-025-02556-9.

Halim J, Robinson AH, Navas JF, Martin-Perez C, Vilar-Lopez R, Chong TT, Verdejo-Garcia A. (2023). Computational mechanisms underpinning greater exploratory behaviour in excess weight relative to healthy weight adolescents. *Appetite, 183*, 106484. doi: 10.1016/j.appet.2023.106484.

Martín-Pérez C, Contreras-Rodríguez O, Verdejo-Román J, **Vilar-López R**, González-Pérez R, Verdejo-García A. (2020). Stressing diets? Amygdala networks, cumulative cortisol and weight loss in adolescents with excess weight. *International Journal of Obesity (London), 44,* 2001-2010.

Contreras-Rodríguez, O., Mata, F., Verdejo-Román, J., Ramírez-Bernabé, R., Moreno, D., **Vilar-López, R.,** Soriano-Mas, C., Verdejo-García, A. (2020). Neural-based valuation of functional foods among lean and obese individuals. *Nutrition Research, 31*, 27-35.

Westwater, M.L., **Vilar-López, R.**, Ziauddeen, H., Verdejo-García, A., Fletcher, P.C. (2019). Combined effects of age and BMI are related to altered cortical thickness in adolescence and adulthood. *Developmental Cognitive Neuroscience,* 40:100728.

Martín-Pérez, C., Contreras-Rodríguez, O., **Vilar-López, R.**, Verdejo-García, A. (2019). Hypothalamic networks in adolescents with excess weight: Stress-related connectivity and associations with emotional eating. *Journal of the American Academy of Child and Adolescent Psychiatry, 58*, 211-220.

Contreras-Rodríguez, O., Cano, M., **Vilar-López, R.**, Rio-Valle, J.S., Verdejo-Roman, J., Navas, J.F., Martín-Pérez, C., Fernández-Aranda F., Menchón J.M., Soriano-Mas, C., Verdejo-García, A. (2019). Visceral adiposity and insular networks: associations with food craving. *International Journal of Obesity (London), 43*, 503-511.

Navas, J.F., Barrós-Loscertales, A., Costumero-Ramos, V., Verdejo-Román, J., **Vilar-López, R.**, Verdejo-Garcia, A. (2018). Excessive body fat linked to blunted somatosensory cortex response to general reward in adolescents. *International Journal of Obesity, 42*(1), 88-94.

Contreras-Rodríguez, O., **Vilar-López, R.**, Andrews, Z.B., Navas, J.F., Soriano-Mas, C., Verdejo-Garcia, A. (2017). Altered cross-talk between the hypothalamus and non-homeostatic regions linked to obesity and difficulty to lose weight. *Scientific Reports, 7*(1), 9951.

Contreras-Rodríguez, O., Martín-Pérez, C., **Vilar-López, R.**, Verdejo-Garcia, A. (2017). Ventral and dorsal striatum in obesity: link to food craving and weight gain. *Biological Psychiatry, 81*(9), 789-796.

Verdejo-Román, J., Fornito, A., Soriano-Mas, C., **Vilar-López, R.**, Verdejo-García, A. (2017). Independent functional connectivity networks underpin food and monetary reward sensitivity in excess weight. *NeuroImage, 146*, 293-300.

Verdejo-Román, J., **Vilar-López, R.**, Navas, J. F., Soriano-Mas, C., Verdejo-García, A. (2017). Brain reward system's alterations in response to food and monetary stimuli in overweight and obese individuals. *Human Brain Mapping, 38*, 666-677.

C.2. Congress.

Approach-avoidance bias modification training for excess weight. Annual Mid-Year of the International Neuropsychological Society. Barcelona, July 6-8 2022. Poster.

Inhibitory control training for people with excess weight. Annual Mid-Year of the International Neuropsychological Society. Barcelona, July 6-8 2022. Poster.

Association between empathy and Body Mass Index. I GIRN European Conference. Granada, 11-12 November 2022. Poster.

Striatal hyperactivation associates with insulin resistance and reward delay discounting in adolescents with excess weight. 30º Congress of the European College of Neuropsychopharmacology. Paris (France). 2-5 September 2017. Oral presentation. doi: https://doi.org/10.1016/S0924-977X(17)31912-0

Neuropsychology of obesity: Food addiction. VIII National Congress of Neuropsychology. Zaragoza, 4-5 March 2016.Invited conference.

Updating is related to treatment adherence in substance use disorder patients. 31º International Congress of Psychology 2016 (ICP2016). Yokohama (Japan) 24-29 July 2016. Oral presentation. *International Journal of Psychology, 51*(S1);864

Homeostatic brain correlates of acute social stress in excess weight adolescents. 28th European College of Neuropsychopharmacology Congress (ECNP). Amsterdam, 29 August-1 September 2015. Poster. doi: https://doi.org/10.1016/S0924-977X(15)30392-8

Are different Spanish versions of the WAIS equivalent? International Neuropsychological Society 39th Annual Meeting. Boston, 2-5 February 2011. Poster. *Journal of the International Neuropsychological Society,* 17, 278.

Tests of Effort in Normative, Clinical and Forensic Populations of Spanish Speaking Individuals Residing in the US. American Psychological Association 119th Annual Convention. Washington, 4-7 August 2010. Poster. *The Clinical Neuropsychologist, 25*, 868-869.

Dementia or Malingering? An Example of the difficulties in Minorities' Assessment. National Academy of Neuropsychology 29th Annual Meeting. New Orleans, 11-14 November 2009. Oral presentation. *Archives of Clinical Neuropsychology, 24*, 434.

C.3. Research projects.

PID2022_137524OB_I00; *TITTLE:* Inhibitory control training and transcranial magnetic stimulation for the treatment of people with excess weight: Behavioral and brain changes (InhiBe); *FUNDING BODY:* Ministerio de Ciencia e Innovación, proyectos de Generación de Conocimiento 2022; *PI:* Raquel Vilar López & Alfonso Caracuel Romero, University of Granada; *DATE START-END:* 01/09/2023-31/08/2027; *AMOUNT OF GRANT*: 175.625,00 €; *TYPE OF PARTICIPANTION:* Principal Investigator

P21_00776; *TITLE:* Transcranial magnetic stimulation and inhibitory control training to reduce binge eating: brain and behavioral changes (BE-NEMOIC); *FUNDING BODY:* Junta de Andalucía R+D+I Proyects 2021; *PI*: Alfonso Caracuel-Romero & Raquel Vilar-López, University of Granada; *DATE START-END:* 2022-2025; *AMOUNT OF GRANT*: 159.822,40 €; *TYPE OF PARTICIPANTION:* Principal Investigator

610227-EPP-1-2019-1-ES-EPPKA2-CBHE-JP*; TITLE:* Neurodevelopmental CAre for REfugees (NeuroCaRe)*; FUNDING BODY:* European Commision. Education, Audiovisual and Culture Executive Agency. Erasmus+ Capacity Building in Higher Education*; PI*: Miguel Pérez-García, University of Granada; *DATE START-END:* 2019-2023*; AMOUNT OF GRANT*: 668.750 €; *TYPE OF PARTICIPANTION:* Researcher

RTI2018-098771-B-I00; *TITLE:* program for the comprehensive cognitive treatment of excess weight: TRAINEP; *FUNDING BODY:* Spanish Ministry of Science, Innovation and Universities. R+D+I "Research Challenges" Program; *PI*: Raquel Vilar López $ Alfonso Caracuel-Romero, University of Granada; *DATE START-END*: 2018-2022; *AMOUNT OF GRANT*: 108.900 €; *TYPE OF PARTICIPATION:* Principal Investigator

PS-0037-2016; *TITLE:* Determinants of functional capacity in schizophrenia: role of social cognition observable by the main caregiver; *FUNDING BODY:* Department of Health and Social Affairs of the Junta de Andalucía; *PI*: Francisco González-Sáiz, University of Cádiz; *DATE START-END*: 2017-2020; *AMOUNT OF GRANT*: 27.956,50 €; *TYPE OF PARTICIPATION:* Researcher

PI-0691-2013; *TITLE:* Efficiency of Brief Motivational Intervention in the Treatment of Patients Admitted for Traffic Accidents Associated with Drug Use; *FUNDING BODY*: Department of Health and Social Affairs of the Junta de Andalucía; *PI*: Raquel Vilar López, University of Granada; *DATE START-END*: 2014-2017; *AMOUNT OF GRANT*: 34.329,43 €; *TYPE OF PARTICIPATION:* Principal Investigator

HUM-6635; *TITLE*: Neuroeconomy of obesity and food preferences (Neuroecobe); *FUNDING BODY*: Projects of Excellence of the Department of Economy, Innovation and Science of the Junta de Andalucía; *PI*: Antonio Verdejo-García, University of Granada; *DATE START-END*: 2013-2016; *AMOUNT OF GRANT*: 158.247 €; *TYPE OF PARTICIPATION*: Researcher

TIC-6600; *TITLE*: VIRTRAEL: Virtual platform for cognitive assessment and intervention in the elderly; *FUNDING BODY:* Projects of Excellence of the Department of Economy, Innovation and Science of the Junta de Andalucía; *PI*: María José Rodríguez Fortiz, University of Granada; *DATE START-END:* 2013-2016; *AMOUNT OF GRANT*: 195.347 €; *TYPE OF PARTICIPATION:* Researcher

SEJ2006- 08278; *TITLE:* Modulation of decision making in drug users: Psychophysiological and neuroanatomical mechanisms; *FUNDING BODY*: Spanish Ministry of Science and Education; *PI*: Miguel Pérez-García, University of Granada; *DATE START-END*: 2007-2010; *AMOUNT OF GRANT*: 42.000 €; *TYPE OF PARTICIPATION*: Researcher

SEJ2007-61857; *TITLE*: Altered mechanisms in the response to stress in patients with systemic lupus erythematosus; *FUNDING BODY*: Spanish Ministry of Science and Education; *PI*: María Isabel Peralta Ramírez, University of Granada; *DATE START-END*: 2007-2010; *AMOUNT OF GRANT*: 50.000 €; *TYPE OF PARTICIPATION*: Researcher

FIS 03/1142; *TITLE:* Concordance between Clinical, Neuropsychological and Functional Neuroimaging Aspects in Patients with Post-Concussion Syndrome; *FUNDING BODY:* Spanish Ministry of Health; *PI:* Manuel Gómez Río, University Hospital Virgen de las Nieves; *DATE START-END:* 2003-2006; *AMOUNT OF GRANT*: 20.700 €; *TYPE OF PARTICIPATION:* Researcher