



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD

AYUDAS RAMÓN Y CAJAL CONVOCATORIA 2014

Turno de acceso general

SECRETARÍA DE ESTADO
DE INVESTIGACIÓN
DESARROLLO E INNOVACIÓN

SECRETARÍA GENERAL
DE CIENCIA, TECNOLOGÍA
E INNOVACIÓN

DIRECCIÓN GENERAL
DE INVESTIGACIÓN
CIENTÍFICA Y TÉCNICA

SUBDIRECCIÓN GENERAL
DE RECURSOS HUMANOS
PARA LA INVESTIGACIÓN

Nombre: RODRIGUEZ RODRIGUEZ, M. CRISTINA

Referencia: RYC-2014-16948

Área Científica: Ciencias de la Educación

Correo Electrónico: crodri@ull.es

Título:

Specific learning disabilities: multimedia diagnosis and intervention.

Resumen de la Memoria:

My research experience and interests have been focused, since 2002, on the identification of cognitive mechanisms which are deficient in children and adolescents with specific learning disabilities (SLD) in reading and also in designing treatments based on this knowledge to improve their future academic performance. My main contribution to this field can be explained in terms of the evidence about how these mechanisms work in transparent languages, specifically in Spanish. There has been a trend to extrapolate to our language the findings of other languages, especially those carried out in English, but sometimes this extrapolation can be inappropriate. A clear example, in my studies has shown that the prevalence of dyslexic subtypes and their cognitive profile differed deeply from subtypes and profiles of English speakers. In the same way, we have provided evidence that in the Spanish language the Double Deficit Hypothesis is only partially replicated. The findings of my studies are crucial to create a reliable framework to understand SLD in monolingual Spanish-speakers, as well as to generate interventions that fit this construct.

My main contributions have been developed in a multimedia context. That is, I participated in the design and administration of experimental software devised to assess children's cognitive skills in reading. The international cooperation of countries such as Mexico, Guatemala, Ecuador and Chile has been an important part of the validation process of these technology tools which were transferred to the productive sector. My experience designing this software highlighted the advantages of using these tools. Indeed, in the last four years, I have continued to draw on this experience to design other tools to assess children's arithmetic skills with SLD. Simultaneously, during my postdoc in the Research Institute on Child Development and Education at the University of Amsterdam, I analyzed the cross-linguistic differences in word recognition by using this software.

In addition to my work on assessments, I have been very involved in the implementation of Response to Intervention Model (RtI) in Spain through a longitudinal study (40 schools) in which this model was validated for the first time out of EEUU, The implementation of RTI in Spain was possible through different collaborations with the University of Texas at Austin and the Center on Teaching and Learning at the University of Oregon. Both institutions are pioneers in the development and implementation of RTI in the EEUU

Resumen del Currículum Vitae:

My most important achievements can be differentiated in four areas:

a) Work experience in research groups and collaborations in research projects: Since 2002, I am a member of the Specific Learning Disabilities, Psycholinguistic and New Technologies Research Group (Dificultades Específicas de Aprendizaje, Psicolingüística y Nuevas Tecnologías, DEAP&NT) in which Professor Juan E. Jiménez is the Principal Investigator. As member of this group, I collaborated in 22 research projects, all of them funded through competitive public examination: 4 of them from the National Scientific Research, Development and Technological Innovation Plan (R&D&I National Plan); 4 of them from Inter-University Cooperation Program and Scientific Research (Programa de Cooperación Interuniversitaria e Investigación Científica, PCI, with Latin-American countries); 1 from COEDUCA Consolidar funds; 1 from Subprogramme: fundamental research projects for the Transfer of Knowledge to Enterprises (Proyectos de Investigación Fundamental orientada a la transmisión de conocimientos a la empresa, TRACE). I have also worked with research groups from others universities and countries.

b) Scientific production: 36 publications. 12 of them published in ISI journals (3 in Q1; 5 in Q2, 1 in Q3 and 3 in Q4); 2 in Scopus journals and 21 in peer review journals, 25 book chapters and 4 ISBN books. Currently I have 2 papers under revision in ISI journals (Q1), and 3 papers in preparation. I have also a high number of conference participations in International meetings. In the last few years, I co-supervised three PhD candidates whose doctoral dissertations were awarded with the highest honor, and currently I am supervising other three PhD. candidates.

c) International Collaboration: I have had the opportunity to work with researchers of other countries and Universities in different research projects such as: Rosa Flores and her research group from the National Autonomous University of Mexico (Universidad Nacional Autónoma de México, UNAM, Mexico); Dolores Valadez and her research group from University of the Guadalajara (Universidad de



MINISTERIO
DE ECONOMÍA
Y COMPETITIVIDAD

AYUDAS RAMÓN Y CAJAL CONVOCATORIA 2014

Turno de acceso general

SECRETARÍA DE ESTADO
DE INVESTIGACIÓN
DESARROLLO E INNOVACIÓN

SECRETARÍA GENERAL
DE CIENCIA, TECNOLOGÍA
E INNOVACIÓN

DIRECCIÓN GENERAL
DE INVESTIGACIÓN
CIENTÍFICA Y TÉCNICA

SUBDIRECCIÓN GENERAL
DE RECURSOS HUMANOS
PARA LA INVESTIGACIÓN

Guadalajara, UDG, Mexico); Claudia García de la Cadena and her group from the University of the Valley of Guatemala (Universidad del Valle de Guatemala, UVG, Guatemala); Marcela Bizama and her group from the Catholic University of the Most Holy Conception Universidad Católica de la Santísima Concepción, UCSC, Chile); Marcela Frugone from the Big House University (Universidad Casa Grande, UCG, Ecuador); Doris Luft Baker from the Center on Teaching & Learning (CTL, University of Oregon) and Peter de Jong from the Research Institute on Child Development and Education, (University of Amsterdam, Holland).

d) Fellowship and awards: I have been awarded high competition fellowships such as: University Staff Training (FPU) and Postdoctoral mobility both, from the Ministry of Education, Sport and Culture. I have also been awarded for my academic performance Outstanding Doctorate Award (2007) by University in La Laguna, a Special End of Degree award (2001) and a National Prize in Educational Research and Innovation (2006).