



Miguel Burgaleta Díaz

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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

h index = 11



Miguel Burgaleta Díaz

Surname(s): **Burgaleta Díaz**
 Name: **Miguel**
 DNI: **50752354W**
 Date of birth: **26/12/1981**
 Gender: **Male**
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Current professional situation

Employing entity: Universidad Pompeu Fabra **Type of entity:** University
Department: Center for Brain and Cognition
Professional category: Juan de la Cierva - Incorporación
Start date: 01/01/2017
Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time
Primary (UNESCO code): 610701 - Methodology
Secondary (UNESCO code): 610601 - Brain function
Tertiary (UNESCO code): 610501 - Differential psychology
Identify key words: Cognitive neuroscience; Behavioural sciences

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Pompeu Fabra	Postdoctoral researcher	01/09/2013
2	Universidad Pompeu Fabra	A4U Postdoctoral researcher	01/09/2011
3	Universidad Autónoma de Madrid	FPU Predoctoral researcher	01/05/2007
4	Universidad Autónoma de Madrid	Research assistant, PhD student	01/09/2005
5	Universidad Autónoma de Madrid	Graduate student research assistant	01/01/2004
6	Universidad Pompeu Fabra	Ayudas a la formación postdoctoral MINECO	15/11/2014

1 **Employing entity:** Universidad Pompeu Fabra **Type of entity:** University
Professional category: Postdoctoral researcher
Start-End date: 01/09/2013 - 15/11/2014
Type of contract: Grant-assisted student (pre or post-doctoral, others)

2 **Employing entity:** Universidad Pompeu Fabra **Type of entity:** University
Department: Departamento de Tecnología de la Información y las Comunicaciones, Centro de Cognición y Cerebro
Professional category: A4U Postdoctoral researcher **Educational Management (Yes/No):** Yes



Start-End date: 01/09/2011 - 01/09/2013 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of management activity: University

- 3** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University
Department: Departamento de Psicología Biológica y de la Salud, Facultad de Psicología
Professional category: FPU Predoctoral researcher **Educational Management (Yes/No):** Yes
Start-End date: 01/05/2007 - 01/05/2011 **Duration:** 4 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)

- 4** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University
Department: Departamento de Psicología Biológica y de la Salud, Facultad de Psicología
Professional category: Research assistant, PhD student **Educational Management (Yes/No):** No
Start-End date: 01/09/2005 - 01/05/2007 **Duration:** 1 year - 8 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)

- 5** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University
Department: Departamento de Psicología Biológica y de la Salud, Facultad de Psicología
Professional category: Graduate student research assistant **Educational Management (Yes/No):** No
Start-End date: 01/01/2004 - 01/12/2004 **Duration:** 1 year
Type of contract: Grant-assisted student (pre or post-doctoral, others)

- 6** **Employing entity:** Universidad Pompeu Fabra
Department: Center for Brain and Cognition, Universidad Pompeu Fabra
Professional category: Ayudas a la formación postdoctoral MINECO
Start date: 15/11/2014
Type of contract: Grant-assisted student (pre or post-doctoral, others)



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Psychology

Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University

Date of qualification: 01/09/2005

Doctorates

Doctorate programme: Research Methods in Behavioral and Social Sciences

Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University

Date of degree: 19/05/2011

DEA awarding entity: Universidad Autónoma de Madrid

Date DEA was awarded: 15/02/2008

Thesis title: Processing speed, cognitive efficiency and white matter integrity

Thesis director: Roberto Colom Marañón

Obtained qualification: Sobresaliente Cum Laude

Recognition of quality: Yes

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

Title of course/seminar: Certificado de Aptitud Pedagógica (Official Certificate of Teaching Aptitude)

Organising entity: Universidad Complutense de Madrid **Type of entity:** University

Start date: 2006

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Mandarin Chinese	A2	A2	A2	A2	A2
English	C1	C1	C1	C1	C1



Teaching experience

General teaching experience

- 1 **Name of the course:** Differential Psychology
University degree: Psychology
Start date: 2009
Entity: Universidad Autónoma de Madrid
End date: 2010
Type of entity: University
- 2 **Name of the course:** Differential Psychology
University degree: Psychology
Start date: 2007
Entity: Universidad Autónoma de Madrid
End date: 2008
Type of entity: University
- 3 **Name of the course:** Cognitive Neuroscience
University degree: Master in Neurosciences
Start date: 2012
Entity: Universitat de Barcelona
Type of entity: University

Experience supervising doctoral thesis and/or final year projects

- 1 **Project title:** Contribuciones ambientales a las bases neurales en la segmentación del lenguaje
Entity: Universidad Pompeu Fabra
Student: Lorite, N.
Date of reading: 23/06/2015
Type of entity: University
- 2 **Project title:** Exploring the role of genetics and environment on the neural substrates of word and rule learning
Type of project: Doctoral thesis
Co-director of thesis: Nuria Sebastián Gallés
Entity: Universidad Pompeu Fabra
Student: Anna Basora Marimon
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 17/03/2015
Type of entity: University
- 3 **Project title:** Where in the Brain is Intelligence? An Exhaustive Analysis across Gray Matter Properties, Neuroimaging Protocols and Matched Samples
Type of project: Doctoral thesis
Co-director of thesis: Roberto Colom Marañón
Entity: Universidad Autónoma de Madrid
Student: Kenia Martínez Rodríguez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 27/01/2014
Type of entity: University



Other activities/achievements not included above

Description of the activity: Instructor, Psychology applied to emergencies

Organising entity: Spanish Red Cross, Madrid

End date: 2007

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Mechanisms of cognitive control and language learning: Under Control
Entity where project took place: Universidad Pompeu Fabra **Type of entity:** University
Name principal investigator (PI, Co-PI....): Nuria Sebastián Gallés
Funding entity or bodies: European Research Council (ERC) **Type of entity:** Public Research Body
Start-End date: 01/09/2013 - 01/09/2018
- 2** **Name of the project:** Grup de Recerca en Neurociència Cognitiva (GRNC)
Entity where project took place: Universidad Pompeu Fabra **Type of entity:** University
Name principal investigator (PI, Co-PI....): Albert Costa
Start-End date: 01/01/2014 - 01/01/2016
- 3** **Name of the project:** ¿Cómo aprenden los bilingües y hacen frente a dos sistemas fonológicos?
Entity where project took place: Universidad Pompeu Fabra **Type of entity:** University
Name principal investigator (PI, Co-PI....): Nuria Sebastián Gallés
Start-End date: 01/01/2013 - 01/01/2016
- 4** **Name of the project:** Study of the Neural Correlates of Emotional Working Memory Training
Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Carretie
Nº of researchers: 27
Start-End date: 01/01/2012 - 01/01/2014
- 5** **Name of the project:** Bilingualism and Cognitive Neuroscience
Entity where project took place: Universidad Pompeu Fabra **Type of entity:** University
Name principal investigator (PI, Co-PI....): Nuria Sebastián Gallés
Funding entity or bodies: Consolider INGENIO 2010



Start-End date: 01/01/2009 - 31/12/2013

6 Name of the project: Fronto-Parietal Network and changes in Cognitive Performance

Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University

Name principal investigator (PI, Co-PI....): Roberto Colom Marañón

Nº of researchers: 11

Funding entity or bodies:

Spanish Ministry of Science and Innovation

Start-End date: 01/10/2010 - 01/10/2013

7 Name of the project: Speech Perception: Not only 'what', but 'who' and 'how'

Entity where project took place: Universidad Pompeu Fabra **Type of entity:** University

Name principal investigator (PI, Co-PI....): Nuria Sebastián Gallés

Nº of researchers: 6

Funding entity or bodies:

Spanish Ministry of Science and Innovation

Start-End date: 01/01/2010 - 12/12/2012

8 Name of the project: Neuroanatomical Basis of Cognitive Ability

Entity where project took place: Universidad Autónoma de Madrid **Type of entity:** University

Name principal investigator (PI, Co-PI....): Roberto Colom Marañón

Nº of researchers: 9

Funding entity or bodies:

Spanish Ministry of Science and Innovation

Start-End date: 01/10/2006 - 01/10/2009

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: Structural and Functional Brain Changes after Cognitive Training

Name principal investigator (PI, Co-PI....): María Ángeles Quiroga; Roberto Colom Marañón

Nº of researchers: 14

Funding entity or bodies:

Nintendo Ibérica

Type of entity: Business

Start date: 2010



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Román, FJ; Iturria-Medina, Y; Martínez, K; Karama, S; Burgaleta, M; Evans, AC; Jaeggi, SM; Colom, R. Enhanced structural connectivity within a brain sub-network supporting working memory and engagement processes after cognitive training. *Neurobiology of Learning and Memory*. 141, pp. 33 - 43. 2017.
Type of production: Scientific paper **Format:** Journal
- 2** Privado, J; Román, FJ; Burgaleta, M; Sáenz-Urturi, C; Colom, R. Gray and white matter correlates of the Big Five personality traits. *Neuroscience*. 349, pp. 174 - 184. 2017.
Type of production: Scientific paper **Format:** Journal
- 3** Santamaria-Garcia, H; Soriano-Mas, C; Burgaleta, M; Ayneto, A; Alonso, P; Menchón, JM; Cardoner, N; Sebastian-Galles, N. Social context modulates cognitive markers in Obsessive-Compulsive Disorder. *Social Neuroscience*. e-pub, 2017.
Type of production: Scientific paper **Format:** Journal
- 4** Miguel Burgaleta; Ana Sanjuán; Noelia Ventura-Campos; Nuria Sebastian-Galles; Cesar Avila. Bilingualism at the core of the brain. Structural differences between bilinguals and monolinguals revealed by subcortical shape analysis. *NeuroImage*. 125, pp. 437 - 445. 2016.
Type of production: Scientific paper **Format:** Journal
- 5** Colom, Roberto; Hua, Xue; Martinez, Kenia; Burgaleta, Miguel; et al. Brain structural changes following adaptive cognitive training assessed by Tensor-Based Morphometry (TBM). *Neuropsychologia*. 91, 2016.
Type of production: Scientific paper **Format:** Journal
- 6** López-Vicente M; Forns Guzman J; Suades-González E; Esnaola M; García-Esteban R; Alvarez-Pedrerol M; Julvez J; Burgaleta M; Sebastian-Galles N; Sunyer J. Developmental Trajectories in Primary Schoolchildren Using n-Back Task. *Frontiers in Psychology*. 7 - 1544, pp. 716. 2016.
Type of production: Scientific paper **Format:** Journal
- 7** Francisco J Román; Lindsay B Lewis; Chi-Hua Chen; Sherif Karama; Miguel Burgaleta; Kenia Martinez; Claude Lepage; Susanne M Jaeggi; Alan C Evans; William S Kremen; Roberto Colom. Gray matter responsiveness to adaptive working memory training: a surface-based morphometry study. *Brain Structure and Function*. In press, 2016.
Type of production: Scientific paper **Format:** Journal
- 8** Colom, Roberto; Martínez, Kenia; Burgaleta, Miguel; et al. Gray matter volumetric changes with a challenging adaptive cognitive training program based on the dual n-back task. *Personality and Individual Differences*. 98, pp. 127 - 132. 2016.
Type of production: Scientific paper **Format:** Journal
- 9** Hernando Santamaria-Garcia; Miguel Burgaleta; Nuria Sebastian-Galles. Neuroanatomical Markers of Social Hierarchy Recognition in Humans: A Combined ERP/MRI Study. *The Journal of Neuroscience*. 35 - 30, pp. 10843 - 10850. 2015.
Type of production: Scientific paper **Format:** Journal



- 10** Faridi N.; Karama S.; Burgaleta M.; White M.T.; Evans A.C.; Fonov V.; Collins D.L.; Waber D.P. Neuroanatomical correlates of behavioral rating versus performance measures of working memory in typically developing children and adolescents. *Neuropsychology*. 29 - 1, pp. 82 - 91. 2015.
Type of production: Scientific paper **Format:** Journal
- 11** Escorial S.; Román F.J.; Martínez K.; Burgaleta M.; Karama S.; Colom R. Sex differences in neocortical structure and cognitive performance: A surface-based morphometry study. *NeuroImage*. 104, pp. 355 - 365. 2015.
Type of production: Scientific paper **Format:** Journal
- 12** Burgaleta M.; Stein J.L.; Martínez K.; Román F.J.; Privado J.; Escorial S.; Álvarez-Linera J.; Karama S.; Thompson P.M.; Colom R. Cortical and subcortical correlates of intraindividual variability in reaction time. *Personality and Individual Differences*. 60 - Supplement, pp. S28. 2014.
Type of production: Scientific paper **Format:** Journal
- 13** Martínez K.; Villalon-Reina J.; Pineda J.A.; Kessel D.; Joshi A.; Eschenburg K.; Jahanshad N.; Román F.J.; Burgaleta M.; Thompson P.M.; Colom R. Individual differences in general/fluid intelligence are evoked by functional integration and the efficiency of long-distance connections in the brain. *Personality and Individual Differences*. 60 - Supplement, pp. S32. 2014.
Type of production: Scientific paper **Format:** Journal
- 14** K. Martinez; A.A. Joshi; S.K. Madsen; S. Joshi; S. Karama; F.J. Roman; J. Villalon-Reina; M. Burgaleta; P.M. Thompson; R. Colom. Reproducibility of brain-cognition relationships using different cortical surface-based analysis protocols. *Biomedical Imaging (ISBI), 2014 IEEE 11th International Symposium*. 2014.
Type of production: Scientific paper **Format:** Scientific and technical document or report
- 15** F.J. Roman; F.J. Abad; S. Escorial; Miguel Burgaleta; K. Martinez; J. Alvarez-Linera; M.A. Quiroga; S. Karama; R.J. Haier; R. Colom. Reversed hierarchy in the brain for general and specific cognitive abilities: A morphometric analysis. *Human Brain Mapping*. In press, 2014.
Type of production: Scientific paper **Format:** Journal
- 16** Román F.J.; Abad F.J.; Escorial S.; Burgaleta M.; Martinez K.; Alvarez-Linera J.; Quiroga M.A.; Karama S.; Haier R.J.; Colom R. Reversed hierarchy in the brain for general and specific cognitive abilities: a morphometric analysis. *Human Brain Mapping*. 35 - 8, pp. 3805 - 3818. 2014.
Type of production: Scientific paper **Format:** Journal
- 17** Privado J.; Sáenz de Urturi C.; Dávila J.; López C.; Burgaleta M.; Román F.J.; Escorial S.; Colom R. White matter integrity predicts individual differences in (fluid) intelligence through working memory. *Personality and Individual Differences*. 60 - Supplement, pp. S77. 2014.
Type of production: Scientific paper **Format:** Journal
- 18** R. Colom; F.J. Román; F.J. Abad; P.C. Shih; J. Privado; M. Froufe; S. Escorial; K. Martínez; Miguel Burgaleta; M.A. Quiroga; S. Karama; R.J. Haier; P.M. Thompson; S. Jaeggi. Adaptive n-back training does not improve fluid intelligence at the construct level: Gains on individual tests suggest that training may enhance visuospatial processing. *Intelligence*. 41, 2013.
Type of production: Scientific paper **Format:** Journal
- 19** Miguel Burgaleta; Cristina Baus; Begona Diaz; Nuria Sebastian-Galles. Brain structure is related to speech perception abilities in bilinguals. *Brain Structure and Function*. In press, 2013.
Type of production: Scientific paper **Format:** Journal



- 20** Miguel Burgaleta; W. Johnson; D. Waber; R. Colom; S. Karama. Cognitive ability changes and dynamics of cortical thickness development in healthy children and adolescents. *NeuroImage*. 84, 2013.
Type of production: Scientific paper **Format:** Journal
- 21** K. Martinez; J. Villalon-Reina; D. Kessel; A. Joshi; J.A. Pineda; N. Jahanshad; T. Nir; K. Eschenburg; F.J. Roman; M. Burgaleta; A.B. Solana; M.A. Quiroga; R. Colom; P.M. Thompson. Exploratory factor analysis of brain networks reveals sub-networks related to cognitive performance. *Biomedical Imaging (ISBI), 2013 IEEE 10th International Symposium*. 2013.
Type of production: Scientific paper **Format:** Scientific and technical document or report
- 22** R. Colom; J.L. Stein; P. Rajagopalan; K. Martínez; D. Hermel; Y. Wang; J. Álvarez-Linera; Miguel Burgaleta; M.A. Quiroga; P.C. Shih; P.M. Thompson. Hippocampal structure and human cognition: key role of spatial processing and evidence supporting the efficiency hypothesis in females. *Intelligence*. 41, 2013.
Type of production: Scientific paper **Format:** Journal
- 23** R. Colom; Miguel Burgaleta; F.J. Román; S. Karama; J. Álvarez-Linera; F.J. Abad; K. Martínez; M.A. Quiroga; R.J. Haier. Neuroanatomic overlap between intelligence and cognitive factors: Morphometry methods provide support for the key role of the frontal lobes. *NeuroImage*. 72, 2013.
Type of production: Scientific paper **Format:** Journal
- 24** Miguel Burgaleta; Penny A. MacDonald; Kenia Martínez; Francisco J. Román; Juan Álvarez-Linera; Ana Ramos González; Sherif Karama; Roberto Colom. Subcortical regional morphology correlates with fluid and spatial intelligence. *Human Brain Mapping*. 2013. Available on-line at: <<http://dx.doi.org/10.1002/hbm.22305>>. ISSN 1097-0193
Type of production: Scientific paper **Format:** Journal
- 25** Kenia Martínez; Ana Beatriz Solana; Miguel Burgaleta; Juan Antonio Hernandez Tamames; Juan Alvarez-Linera; Francisco J. Roman; Eva Alfayate; Jesús Privado; M.A. Quiroga; Sherif Karama; Pierre Bellec; Roberto Colom. Changes in Resting-State Functionally Connected Parietofrontal Networks After Videogame Practice. *Human Brain Mapping*. Epub ahead of print], 2012.
Type of production: Scientific paper **Format:** Journal
- 26** Miguel Burgaleta; Kevin Head; Juan Alvarez-Linera; Kenia Martinez; Sergio Escorial; Richard Haier; Roberto Colom. Sex differences in brain volume are related to specific skills, not to general intelligence. *Intelligence*. 40, 2012.
Type of production: Scientific paper **Format:** Journal
- 27** Roberto Colom; M.A. Quiroga; A.B. Solana; Miguel Burgaleta; F.J. Roman; J. Privado; S. Escorial; K. Martinez; Juan Alvarez-Linera; E. Alfayate; F. Garcia; C. Lepage; Juan Antonio Hernandez Tamames; Sherif Karama. Structural Changes after Videogame Practice Related to a Brain Network Associated with Intelligence. *Intelligence*. 40, pp. 10 - 10. 2012.
Type of production: Scientific paper **Format:** Journal
- 28** Kenia Martinez; Miguel Burgaleta; Francisco J. Roman; Pei C. Shih; Maria A. Quiroga; Roberto Colom. Can fluid intelligence be reduced to 'simple' short-term storage?. *Intelligence*. 39, 2011.
Type of production: Scientific paper **Format:** Journal
- 29** Emiliano Bruner; Manuel Martin-Loeches; Miguel Burgaleta; Roberto Colom. Midsagittal brain shape correlation with intelligence and cognitive performance. *Intelligence*. 39, 2011.
Type of production: Scientific paper **Format:** Journal



- 30** Roberto Colom; Maria A. Quiroga; Pei C. Shih; Kenia Martinez; Miguel Burgaleta; Agustin Martinez-Molina; Francisco J. Roman; Laura Requena; Isabel Ramirez. Improvement in working memory is not related to increased intelligence scores. *Intelligence*. 38, 2010.
Type of production: Scientific paper **Format:** Journal
- 31** Miguel Burgaleta; Roberto Colom. Short-term storage and mental speed account for the relationship between working memory and fluid intelligence. *Psicothema*. 20, 2008.
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Impact of early bilingualism on infants' exploration of faces producing speech and non-speech gestures
Name of the conference: WILD 2017
City of event: Bilbao, Spain
Date of event: 06/2017
Fort, M; Burgaleta, M; Sebastian-Galles, N.
- 2** **Title of the work:** Local Changes in the Binary Functional Connectivity after Artificial Language Exposure
Name of the conference: BrainModes
City of event: Brussels,
Date of event: 12/2016
Sengupta, P.; Zamora-Lopez, G.; Burgaleta, M.; Deco, G.; Sebastian-Galles, N.
- 3** **Title of the work:** Traces of Statistical Learning in the Brain's Functional Connectivity after Linguistic Processing
Name of the conference: Beyond Language Learning Workshop
City of event: Barcelona,
Date of event: 09/2016
Sengupta, P.; Zamora-Lopez, G.; Burgaleta, M.; Deco, G.; Sebastian-Galles, N.
- 4** **Title of the work:** Exploring the underlying factors of second language speech perception and production
Name of the conference: 19th Conference of the European Society for Cognitive Psychology (ESCOPE)
City of event: Paphos,
Date of event: 09/2015
Schimtz J.; Díaz B.; Rubio-Fernández K.; de Menezes R.F.; Burgaleta M.; Sebastián-Gallés N.
- 5** **Title of the work:** Cambios longitudinales en estructura subcortical correlacionan con cambios en CI
Name of the conference: Conferencia de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales
City of event: Barbastro,
Date of event: 09/2014
Burgaleta M.; Colom R.; Román F.J.; Martínez K.; Sherif K.
- 6** **Title of the work:** Reproducibility of brain-cognition relationships using different cortical surface-based analysis protocols
Name of the conference: Biomedical Imaging (ISBI), IEEE 11th International Symposium
City of event: Beijing,
Date of event: 04/2014
Martínez K.; Joshi A.; Madsen S.K.; Joshi S.; Karama S.; Román F.J.; Villalon-Reina J.; Burgaleta M.; Thompson P.M.; Colom R.



- 7** **Title of the work:** Bilingualism at the core of the brain: a shape analysis of subcortical structures
Name of the conference: Donders Discussions
Type of participation: 'Participatory - poster
City of event: Nijmegen,
Date of event: 10/2013
A Basora,; Jin, M Burgaleta, N Sebastián. 10/2013.
- 8** **Title of the work:** Bilingualism at the core of the brain: a shape analysis of subcortical structures
Name of the conference: 6th Brainglot Workshop
Type of participation: 'Participatory - poster
City of event: Barcelona,
Date of event: 09/2013
M Burgaleta; A Sanjuan; N Ventura-Campos; N Sebastián; C Avila. 09/2013.
- 9** **Title of the work:** Genetic contribution to brain structure related to artificial language learning: a twin study
Name of the conference: 6th Brainglot Workshop
Type of participation: 'Participatory - poster
City of event: Barcelona,
Date of event: 09/2013
A Basora; M Burgaleta; N Sebastián. 09/2013.
- 10** **Title of the work:** Cortical and subcortical correlates of intraindividual variability in reaction time
Name of the conference: International Society for the Study of Individual Differences Conference
Type of participation: Participatory - oral communication
City of event: Barcelona,
Date of event: 07/2013
M Burgaleta; JL Stein; K Martínez; FJ Román; J Privado; S Escorial; J Álvarez-Linera; S Karama; P Thompson; R Colom. 07/2013.
- 11** **Title of the work:** Neuroanatomical substrates of social hierarchy modulations over sensory-perceptual cognition
Name of the conference: Barcelona Computational and Systems Neuroscience Meeting
Type of participation: Participatory - oral communication
City of event: Barcelona,
Date of event: 06/2013
M Burgaleta; H Santamaría; N Sebastián. 06/2013.
- 12** **Title of the work:** Adaptive working memory training increases integrity of the corpus callosum
Name of the conference: Annual Conference of the International Society for Intelligence Research
Type of participation: Participatory - oral communication
City of event: San Antonio, United States of America
Date of event: 12/2012
Miguel Burgaleta; Francisco J Román; Kenia Martínez; Jesús Privado; Manuel Froufe; Ilaria Albano; Sergio Escorial; Pei Chun Shih; M. A. Quiroga; Juan Álvarez-Linera; Sherif Karama; Richard Haier; Paul M. Thompson; Susanne Jaeggi; Roberto Colom. 12/2012.
- 13** **Title of the work:** Subcortical morphology correlates with fluid and spatial intelligence but not with crystallized intelligence
Name of the conference: Annual Conference of the International Society for Intelligence Research
Type of participation: 'Participatory - poster



City of event: San Antonio, United States of America

Date of event: 12/2012

Miguel Burgaleta; Penny A. MacDonald; Kenia Martínez; Francisco J. Román; Juan Álvarez-Linera; Sherif Karama; and Roberto Colom. 12/2012.

- 14** **Title of the work:** Cortical thickness predicts individual differences in lexico-phonological representation in highly-skilled bilinguals
Name of the conference: Neurobiology of Language Conference
Type of participation: 'Participatory - poster
City of event: San Sebastián,
Date of event: 10/2012
Miguel Burgaleta; Begoña Díaz; Cristina Baus; Núria Sebastián-Gallés. 10/2012.
- 15** **Title of the work:** Cambios longitudinales en grosor cortical correlacionan con cambios en CI
Name of the conference: Conferencia de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales
Type of participation: Participatory - oral communication
City of event: Murcia,
Date of event: 09/2012
Miguel Burgaleta; Wendy Johnson; Deborah Waber; Roberto Colom; Sherif Karama. 09/2012.
- 16** **Title of the work:** Correlatos corticales y subcorticales de los meta-rasgos de personalidad Estabilidad y Plasticidad
Name of the conference: Conferencia de la Asociación Iberoamericana para la Investigación de las Diferencias Individuales
Type of participation: Participatory - oral communication
City of event: Murcia,
Date of event: 09/2012
Miguel Burgaleta; Sergio Escorial; Francisco J. Román; Jesús Privado; Kenia Martínez; Pei-Chun Shih; María Ángeles Quiroga; Roberto Colom. 09/2012.
- 17** **Title of the work:** Cortical Thickness Correlates of Change in IQ in Children and Adolescents
Name of the conference: International Society for Intelligence Research Conference
Type of participation: Participatory - oral communication
City of event: Limasol, Cyprus
Date of event: 12/2011
Miguel Burgaleta; Wendy Johnson; Roberto Colom; Alan Evans; Sherif Karama; the Brain Development Cooperative Group. 12/2011.
- 18** **Title of the work:** Consistency of Intelligence in the Brain
Name of the conference: International Society for the Study of Individual Differences Conference
Type of participation: Participatory - oral communication
City of event: Londres, United Kingdom
Date of event: 07/2011
Roberto Colom; Miguel Burgaleta; Kenia Martínez; Francisco J. Román; Juan Álvarez-Linera; M^a Ángeles Quiroga; Pei Chun Shih; Sergio Escorial; Jesús Privado. 07/2011.
- 19** **Title of the work:** White matter integrity correlates with individual differences in working memory capacity and executive function
Name of the conference: International Society for the Study of Individual Differences Conference
Type of participation: Participatory - oral communication
City of event: Londres, United Kingdom



Date of event: 07/2011

Miguel Burgaleta; Francisco J. Román; Jesús Privado; Sergio Escorial; Jason Stein; Kenia Martínez; Juan Álvarez-Linera; Paul M Thompson; Roberto Colom. 07/2011.

20 Title of the work: Getting Smarter is Related to Cortical Preservation

Name of the conference: 17th Annual Meeting of the Organization for Human Brain Mapping

Type of participation: 'Participatory - poster

City of event: Quebec, Canada

Date of event: 06/2011

Miguel Burgaleta; Roberto Colom; Alan Evans; Sherif Karama; the Brain Development Cooperative Group. 06/2011.

21 Title of the work: Hippocampal Structure and Human Cognition

Name of the conference: International Symposium on Intelligence Research (ISIR)

Type of participation: Participatory - oral communication

City of event: Alexandria, United States of America

Date of event: 12/2010

Roberto Colom; Jason Stein; Priyanka Saharan; Priya Rajagopalan; David Hermel; Juan Álvarez-Linera; Miguel Burgaleta; Kenia Martínez; M^a Ángeles Quiroga; Pei Chun Shih; Yalin Wang; Paul Thompson. 12/2010.

22 Title of the work: Intelligence and the Resting Brain.

Name of the conference: International Symposium on Intelligence Research (ISIR)

Type of participation: 'Participatory - poster

City of event: Alexandria,

Date of event: 12/2010

Kenia Martínez; Ana Beatriz Solana; Miguel Burgaleta; Juan Antonio Hernández-Tamames; Juan Álvarez-Linera; Eva Alfayate; M^a Ángeles Quiroga; Roberto Colom. 12/2010.

23 Title of the work: White Matter Integrity and General Cognitive Performance: a Tract-based Spatial Statistics approach.

Name of the conference: International Symposium on Intelligence Research (ISIR)

Type of participation: Participatory - oral communication

City of event: Alexandria,

Date of event: 12/2010

Burgaleta M; Stein; J.L.; Barysheva; M.; Lee; A.D.; Ho; A.; Colom; R.; Alvarez-Linera; J. Thompson PM. 12/2010.

24 Title of the work: Diferencias individuales en la estructura del hipocampo y rendimiento cognitivo.

Name of the conference: XI Jornadas de la Sociedad Española para la Investigación de las Diferencias Individuales

Type of participation: Participatory - oral communication

City of event: Málaga,

Date of event: 01/10/2010

Roberto Colom; Jason Stein; Priyanka Saharan; David Hermel; Juan Álvarez-Linera; Miguel Burgaleta; Kenia Martínez; M^a Ángeles Quiroga; Pei Chun Shih; Paul Thompson (2010).

25 Title of the work: Integridad de las conexiones cerebrales de asociación y capacidad intelectual general: un análisis de tractografía en espacio nativo.

Name of the conference: XI Jornadas de la Sociedad Española para la Investigación de las Diferencias Individuales

Type of participation: Participatory - oral communication



City of event: Málaga,

Date of event: 01/10/2010

Miguel Burgaleta; Carolina Arribas; Kenia Martínez; Juan Álvarez-Linera; Pei Chun Shih; M^a Ángeles Quiroga; Roberto Colom.

- 26** **Title of the work:** Las diferencias de sexo en volumen cerebral se relacionan con la rotación mental 3D, no con la inteligencia general (g)
Name of the conference: XI Jornadas de la Sociedad Española para la Investigación de las Diferencias Individuales (SEIDI)
Type of participation: Participatory - oral communication
City of event: Málaga,
Date of event: 01/10/2010
Miguel Burgaleta; Kevin Head; Juan Álvarez-Linera; Kenia Martínez; Richard Haier; M^a Ángeles Quiroga; Pei Chun Shih; Roberto Colom.
- 27** **Title of the work:** Domain-specific role of the dorsal cingulum bundle in conflict monitoring
Name of the conference: 16th Annual Meeting of the Organization for Human Brain Mapping
Type of participation: Participatory - oral communication
City of event: Barcelona,
Date of event: 06/2010
Burgaleta; M.; Stein; J.L.; Privado; J.; Barysheva; M.; Lee; A.D.; Martínez; K.; Colom; R.; Álvarez-Linera; J.; Thompson; P.M.
- 28** **Title of the work:** Neuroanatomical overlap between general intelligence and cognitive functions
Name of the conference: International Society for Intelligence Research (ISIR) Conference
Type of participation: Participatory - oral communication
City of event: Madrid,
Date of event: 12/2009
Roberto Colom; Richard J. Haier; Kevin Head; Juan Álvarez-Linera; M^a Ángeles Quiroga; Miguel Burgaleta; Pei Chun Shih; Francisco J. Abad; Sergio Escorial Manuel Martín-Loeches.
- 29** **Title of the work:** Teoría Fronto-Parietal de la Inteligencia (P-FIT): ¿es igualmente válida para distintas capacidades intelectuales e independiente del sexo?
Name of the conference: XI Jornada de la Sociedad Española para la Investigación de las Diferencias Individuales (SEIDI)
Type of participation: Participatory - oral communication
City of event: Mallorca,
Date of event: 09/10/2009
Roberto Colom; M^a Ángeles Quiroga; Juan Álvarez-Linera; Miguel Burgaleta; Pei Chun Shih; Manuel Martín-Loeches; Francisco J. Abad; Sergio Escorial; Kevin Head; Richard J. Haier.
- 30** **Title of the work:** Temperament difficulties, verbal intelligence, and non-verbal intelligence predict scholastic achievement
Name of the conference: 14th European Conference on Personality
City of event: Tartu, Estonia
Date of event: 08/2008
R. Colom; S. Escorial; M. Burgaleta; L. Cuevas; K. Martínez; J. Privado.



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 **Committee title:** Brain Structure and Function (reviewer)
- 2 **Committee title:** Cerebral Cortex (reviewer)
- 3 **Committee title:** Human Brain Mapping (reviewer)
- 4 **Committee title:** Member of International Society for Intelligence Research
- 5 **Committee title:** Member of International Society for the Study of Individual Differences
- 6 **Committee title:** Member of Organization for the Human Brain Mapping
- 7 **Committee title:** NeuroImage (reviewer)
- 8 **Committee title:** NeuroImage Clinical (reviewer)
- 9 **Committee title:** PlosONE (reviewer)
- 10 **Committee title:** The Journal of Neurolinguistics (reviewer)
- 11 **Committee title:** The Journal of Neuroscience (reviewer)



Organization of R&D activities

- Title of the activity:** Campus Junior - Neuroscience for High-schoolers (Coord.)
Convening entity: Universidad Pompeu Fabra **Type of entity:** University
Start date: 2017
- Title of the activity:** Research meetings organizer
Convening entity: Universidad Pompeu Fabra **Type of entity:** University
Start date: 2012

Other achievements

Stays in public or private R&D centres

- Entity:** Montreal Neurological Institute
Faculty, institute or centre: McGill University
Start-End date: 01/07/2010 - 01/11/2010 **Duration:** 4 months
Goals of the stay: Guest
Provable tasks: Surface-based morphometric methods
- Entity:** Laboratory of Neuro Imaging
Faculty, institute or centre: University of California at Los Angeles (UCLA)
Start-End date: 01/08/2009 - 01/10/2009 **Duration:** 2 months
Goals of the stay: Guest
Provable tasks: Diffusion tensor imaging
- Entity:** Laboratory of Neuro Imaging
Faculty, institute or centre: University of California at Los Angeles (UCLA)
Start-End date: 01/08/2008 - 01/11/2008 **Duration:** 3 months
Goals of the stay: Guest
Provable tasks: Processing of T1 and diffusion weighted images

Obtained grants and scholarships

- Name of the grant:** Travel Award
Aims: Pre-doctoral
Awarding entity: International Society for Intelligence Research
Conferral date: 2011
- Name of the grant:** Travel Award
Aims: Pre-doctoral
Awarding entity: International Society for Intelligence Research
Conferral date: 2010