

Analía Arévalo, PhD



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EXPERIENCIA PROFESIONAL

2011 – presente
Curitiba, Brasil

Especialista en Monitorización Intraoperatoria e Investigadora. Hospital Santa Cruz
-Monitorización neurofisiológica intraoperatoria para operaciones neuroquirúrgicas
-Creación y desarrollo de trabajos de investigación

2006 – 2011
Martinez, CA, EEUU

Investigadora. Center for Aphasia & Related Disorders, VA Northern California
-Desarrollo de estudios de investigación sobre la función del lenguaje y su recuperación después de lesiones cerebrales
-Aplicación de técnicas de mapeo de lesiones para comprender mejor la anatomía cerebral y la función del lenguaje
-Conducción de reunión semanal de actividades con fin de mejorar las habilidades comunicativas de un grupo de veteranos con lesiones cerebrales
-Colaboración con grupos de investigación del hospital VA y las universidades UCSF, UC Berkeley y UC Davis
-Miembro del IRB (Internal Review Board), comité que evalúa la calidad de los proyectos de investigación en el hospital VA

2011
Tübingen, Alemania

Investigadora Invitada. Departamento de Neurocirugía, Universitätsklinikum Tübingen
-Formación en monitorización intraoperatoria y participación en diversos proyectos científicos

2007- 2009
Rohnert Park, CA, EEUU

Profesora Adjunta. Departamento de Psicología, Sonoma State University
-Creación y desarrollo del curso de Psicología Biológica, ofrecida por primera vez en esta universidad
-Facilitación de discusiones dinámicas sobre el impacto de la neurociencia en la sociedad
-Estimulación del pensamiento crítico en evaluar publicaciones científicas
-Excelentes evaluaciones por parte de los estudiantes y la universidad

2003-2006
Milán, Italia

Investigadora Invitada. Laboratorio Bioimmagini Funzionali, Università Vita-Salute San Raffaele
-Desarrollo de estudios neuropsicológicos y de resonancia magnética funcional (fMRI) con pacientes y voluntarios italianos

2004
Chicago, IL, EEUU

Investigadora Invitada. Brain Research Imaging Center, University of Chicago
-Desarrollo de experimento de resonancia magnética funcional (fMRI)

1998-2000
Nueva York, NY, EEUU

Asistente de Investigación, Brain Imaging Division, Columbia Presbyterian Medical Center/ New York State Psychiatric Institute
-Reclutamiento y selección de participantes para estudios de investigación
-Asistencia en la adquisición de exámenes de IRM, PET y SPECT
-Administración de ECG y monitoreo de signos vitales durante estudios de investigación

IDIOMAS

- Inglés . lengua materna
- Español . lengua materna
- Portugués . fluente
- Italiano . fluente
- Alemán . fluente
- Francés . buen conocimiento

FORMACIÓN ACADÉMICA

- 2011**
Barcelona, España **Curso. IOM Educational Course, primer año: médula espinal**
-Curso organizado por la International Society of Intraoperative Neurophysiology
- 2000-2006**
San Diego, CA, EEUU **Ph.D., Language & Communicative Disorders (*Lenguaje y Trastornos de la Comunicación*)**
University of California, San Diego & San Diego State University
Disertación: Embodiment and the neural correlates of gestures and word meanings: an investigation targeting different populations, languages and study techniques.
Asesoras: Elizabeth Bates, Beverly Wulfeck, Nina Dronkers
- 1994-1998**
Nueva York, NY, EEUU **B.A., Neuroscience & Behavior, minor in Anthropology (*Neurociencia y Comportamiento, Antropología*)**
Columbia University
- 1997**
Berlín, Alemania **Semestre de Intercambio**
Freie Universität Berlin

DOCENCIA

Cursos Enseñados

- 2007-2009** **Physiological Psychology (*Psicología Fisiológica*)**
Sonoma State University, Depto. de Psicología

Cursos Asistidos

- 2003** **Brain and Behavior Development (*Desarrollo del cerebro y del comportamiento*)** con Leslie Carver, *UC San Diego*
- 2002** **Communicative Disorders in Children and Adults (*Trastornos de la comunicación en niños y adultos*)** con Elizabeth Bates, *UC San Diego*
- 2001** **Introduction to Anatomy and Neurophysiology (*Introducción a la anatomía y a la neurofisiología*)** con Jaime Pineda, *UC San Diego*

REVISORA DE PUBLICACIONES Y GRANTS

- Brain & Language*
- Cortex*
- European Neurology*
- Frontiers in Language Sciences*
- Journal of Cognitive Neuroscience*
- Neuroscience*
- Neurology India*
- Veterans' Affairs Internal Review Board*

HONORES

- 2008** *Beca de viaje para la conferencia de la Organization for Human Brain Mapping en Melbourne, Australia*
- 2007** *National Institutes of Health (NIH); Loan Repayment Program*
- 2006-2007** *UCSD; Cross-linguistic Studies in Aphasia*
- 2004-2005** *NIH/UCSD; Predoctoral Fellowship in the Training Program in Cognitive Neuroscience*
- 2002-2004** *UCSD; Research Supplement for Underrepresented Minorities*
- 2001-2002** *NIH/UCSD; Predoctoral Fellowship in the Training Program in Cognitive Neuroscience*
- 2000-2001** *NIH/UCSD; Predoctoral Traineeship from the Center for Research in Language*
- 1995-1996** *Columbia University; Sol Spiegelman Scholarship Fund & Dean's List*

PRESENTACIONES ORALES

- 2011** *Historia de las afasias: desde Broca y Wernicke a lo que entendemos (y no entendemos) hoy
4° Congreso Internacional de Trastornos de la Comunicación: Audición, Lenguaje, Voz y Aprendizaje,
Guadalajara, Méjico*
- 2011** *Taller: La relación entre el lenguaje y el cerebro
4° Congreso Internacional de Trastornos de la Comunicación: Audición, Lenguaje, Voz y Aprendizaje,
Guadalajara, Méjico*
- 2011** *Language, brain lesions, VLSM, and other interesting things
Neurosurgery scientific meeting, Universitätsklinikum Tübingen, Tübingen, Germany*
- 2011** *Whorf and the case of the Spanish Blues
Neuropsychology Brown Bag Lunch (NBBL) Meeting, VA Northern California, Martinez, CA, USA*
- 2010** *Actions, Objects, Aphasia, Embodiment, and other things I'm interested in
Invited speaker at George Lakoff's Fall semester seminar on Embodiment
University of California, Berkeley, CA USA*

- 2010** *What do brain lesions tell us about theories of embodied semantics and the human mirror neuron system? 2010 Joint meeting of Conceptual Structure, Discourse and Language (CSDL) and Embodied and Situated Language Processing (ESLP)*
University of California, San Diego, La Jolla, CA, USA
- 2010** *What do lesions tell us about theories of embodied semantics and the human mirror neuron system? Neuropsychology Brown Bag Lunch (NBBL), Meeting*
VA Northern California, Martinez, CA, USA
- 2008** *Panel Member for Women in Mental Health, organized for Women's History Month*
Santa Rosa Junior College, Santa Rosa, CA, USA
- 2008** *Testing the notion of category-specific brain regions: a voxel-based lesion analysis. Neuropsychology Brown Bag Lunch (NBBL) Meeting*
VA Northern California Health Care System, Martinez, CA, USA
- 2006** *Action and object processing in aphasia: from nouns and verbs to the effect of manipulability.*
VII Science of Aphasia International Conference, Alghero, Sardinia, Italy
- 2006** *Embodiment and the neural correlates of gestures and word meanings (Dissertation Defense)*
Dept. of Cognitive Science, University of California, San Diego, La Jolla, CA, USA.
- 2005** *In search of the brain's organization for meaning; the noun-verb dissociation and other interesting phenomena.*
Center for Aphasia and Related Disorders, VA Northern California Health Care System, Martinez, CA, USA.
- 2005** *Update on Aphasia Grant progress across international sites.*
Center for Aphasia and Related Disorders, VA Northern California Health Care System, Martinez, CA, USA.
- 2004** *In search of the brain's organization for meaning; the noun-verb dissociation and other interesting phenomena.*
Brain Research Imaging Center (BRIC), University of Chicago, Chicago, IL, USA
- 2004** *Embodiment and the neural correlates of gestures and word meanings (Dissertation Proposal),*
Center for Research in Language (CRL), University of California, San Diego, La Jolla, CA, USA
- 2004** *In search of the brain's organization for meaning; the noun-verb dissociation and other interesting phenomena (Qualifying Exam/Advancement Presentation).*
Center for Research in Language (CRL), University of California, San Diego, La Jolla, CA, USA
- 2003** *In search of the brain's organization for meaning; the noun-verb dissociation and other interesting phenomena.*
CRL-PDPNLP talks
Center for Research in Language (CRL), University of California, San Diego, La Jolla, CA, USA
- 2003** *The Production Mini-Battery: a look at aphasic word production across modalities.*
3rd Annual SDSU/UCSD Joint Doctoral Program in Language & Communicative Disorders Fall Colloquium,
Dept. of Cognitive Science, University of California, San Diego, La Jolla, CA, USA.
- 2003** *The Production Mini-Battery: a look at aphasic word production across modalities.*
Laboratorio Bioimmagini Funzionali, Università Vita-Salute, San Raffaele, Milan, Italy
- 2002** *Teasing Apart Actions and Objects: The Saga Continues.*
2nd Annual SDSU/UCSD Joint Doctoral Program in Language & Communicative Disorders Fall Colloquium
San Diego State University, San Diego, CA, USA
- 2002** *Mapping the Mental Basis of Word Processing (5-minute INC fellows presentation)*
Faculty House, University of California, San Diego, La Jolla, CA, USA
- 2002** *Teasing Apart Actions and Objects: a Picture-Naming Study (5-minute INC Retreat presentation)*
Paradise Point Resort Hotel on Mission Bay, San Diego, CA, USA
- 2002** *Structural and Functional Imaging of Normal and Injured Brains. Class Lecture for undergraduate course (Communicative Disorders in Children and Adults) taught by Dr. Elizabeth Bates*
University of California, San Diego, La Jolla, CA, USA

- 2001 *Teasing Apart Actions and Objects: A Picture-Naming Study.*
1st Annual SDSU/UCSD Joint Doctoral Program in Language & Communicative Disorders Fall Colloquium
Dept. of Cognitive Science, University of California, San Diego, La Jolla, CA, USA.

POSTERS

Morales Geribón, N. & Rebollo, I., Gonzalez-Perilli, F., Arévalo, A., Maiche, A. (2011). *Influencia del lenguaje en la discriminación de colores en poblaciones hispanas con variaciones idiomáticas.* Poster presented at PROLEN, Primer Encuentro de Grupos de Investigación sobre Procesamiento del Lenguaje, Buenos Aires, Argentina.

Arévalo, A.L., Baldo, J.V., & Dronkers, N.F. (2011). *Using brain lesion data and VLSM to explore embodied semantics and the human mirror neuron system (HMNS).* Poster presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, USA.

Baldo, J., Soper, A., & Arevalo, A. (2011). *Cognitive changes in veterans with mild traumatic brain injury and/or post-traumatic stress disorder.* Abstract for the Santa Clara Valley Brain Injury Conference.

Gonzalez-Perilli, F., Arévalo, A., Rebollo, I., Morales, N., & Maiche, A.M. (2011). *Spanish Blues across two different Spanish-speaking populations.* Poster presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, USA.

Arévalo, A.L., Baldo, J.V., & Dronkers, N.F. (2011). *What do brain lesions reveal about embodied semantics?* Poster presented at the Workshop on Embodied, Distributed and Extended Cognition, Barcelona, Spain.

Arévalo, A.L., Baldo, J.V., Turken, A., & Dronkers, N.F. (2010). *Mapping the brain regions involved in performing motor acts on command using VLSM on 128 patients.* Poster presented at the Society for Neuroscience meeting, San Diego, CA, USA.

Baldo, J.V., Arévalo, A., Patterson, J., & Dronkers, N.F. (2010). *Distinct brain regions underlying semantic processing of words versus pictures: evidence from voxel-based lesion symptom mapping (VLSM).* Poster presented at the Neurobiology of Language and Society for Neuroscience meetings, San Diego, CA, USA.

Dronkers, N., Baldo, J., Ogar, J., Wilkins, D., Ludy, C., Arévalo, A., et al. (2009). *Lesion localization of chronic aphasia syndromes.* Paper presented at the Academy of Aphasia meeting, Boston, MA, USA.

Arévalo, A. & Dronkers, N. (2008). *Does the processing of words and pictures involving body parts recruit the motor cortex?* Poster presented at the Human Brain Mapping meeting, Melbourne, Australia.

Arévalo, A. & Dronkers, N. (2008). *Lesions to motor cortex affect the processing of words involving body parts.* Poster presented at the Cognitive Neuroscience Society meeting, San Francisco, CA.

Baldo, J., Arévalo, A., Wilkins, D., & Dronkers, N. (2008). *Lesion analysis of category specific deficits on the Boston Naming Test.* Poster presented at the Cognitive Neuroscience Society meeting, San Francisco, CA.

Arévalo, A., Perani, D., Cappa, S., Dick, F., Della Rosa, P., Bates, E., & Dronkers, N. (2007). *Noun-verb processing in Italian across three production tasks: an fMRI study of picture-naming, reading and repetition.* Poster presented at the Cognitive Neuroscience Society meeting, New York, NY.

Lu, C.-C., Arévalo, A., Huang, B.-Y., Bates, E.A., & Dronkers, N.F. (2007). *Action-object processing in Chinese aphasia across three tasks: a cross-linguistic and cross-modal analysis.* Poster presented at the Cognitive Neuroscience Society meeting, New York, NY.

Moineau, S., Arévalo, A., & Bates, E. (2005). *The effects of Perceptual Degradation on Lexical Processing in Bilinguals.* Poster presented at the ASHA Convention, San Diego, CA.

Arévalo, A., Perani, D., Cappa, S., Butler, A., & Bates, E. (2004). *A deficit in naming and repeating words involving hand imagery in a group of brain-injured patients.* Poster presented at Academy of Aphasia meeting, Chicago, IL. *Brain and Language*, 91, 144.

Arévalo, A., Moineau, S., Saygin, A., Wulfeck, B., & Bates, E. (2003). *The Production Mini-Battery: a look at aphasic word production across three modalities.* Poster presented at the Cognitive Neuroscience Society meeting, New York, NY.

Saccuman, C., Dick, F., Krupa-Kwiatkowski, M., Arévalo, A., Bates, E., Mueller, A., & Wulfeck, B. (2003). *Language comprehension and production in children with language impairment: a developmental fMRI study*. Poster presented at the Cognitive Neuroscience Society meeting, New York, NY.

Arévalo, Bates, & Wulfeck, B. (2002). *Teasing apart actions and objects: a picture-naming study*. Poster presented at the Cognitive Neuroscience Society meeting, San Francisco, CA.

PUBLICACIONES

Arévalo, A.L., Baldo, J.V. & Dronkers, N.F. (2012). **What do brain lesions tell us about theories of embodied semantics and the human mirror neuron system?** *Cortex*, 48, 242-254.

Arévalo, A.L., Dick, F., Dronkers, N.F., Bates, E.A., Della Rosa, P., Cappa, S.F., & Perani, D. (2011). **Noun-verb processing in Italian across three production tasks: an fMRI study of picture-naming, reading and repetition**. *CRL Technical Report*, June, 23(2).

Arévalo, A., Lu, C.-C., Huang, B.-Y., Bates, E.A., & Dronkers, N.F. (2011). **Action and object processing in brain-injured speakers of Chinese**. *Neuropsychology*, 25(6), 792-805, doi: 10.1037/a0024272.

Baldo, J., Arévalo, A., Wilkins, D., & Dronkers, N. (2009). **Voxel-based lesion analysis of category-specific naming on the Boston Naming Test**. *CRL Technical Report*, June, 21(2).

Arévalo, A. (2008). *Embodiment and the neural correlates of gestures and word meanings: an investigation targeting different populations, languages and study techniques*. Published Dissertation. VDM Verlag.

Arévalo, A., Perani, D., Cappa, S., Butler, A., Bates, E., & Dronkers, N. (2007). **Action and Object Processing in Aphasia: from Nouns and Verbs to the Effect of Manipulability**. *Brain and Language*, Jan, 100(1), 79-94.

Cotelli, M., Borroni, B., Manenti, R., Zanetti, M., Arévalo, A., Cappa, S.F., Padovani, A. (2007). **Action and object naming in Parkinson's disease without dementia**. *European Journal of Neurology*, 14 (6), 632–637.

Cotelli, M., Borroni, B., Manenti, R., Alberici, A., Calabria, M., Agosti, C., Arévalo, A., Ginex, V., Ortelli, P., Binetti, G., Zanetti, O., Padovani, A., & Cappa, S. (2006). **Action and object naming in frontotemporal dementia, progressive supranuclear palsy and corticobasal degeneration**. *Neuropsychology*, Sep; 20(5), 558-65.

Saccuman, M.C., Cappa, S.F., Bates, E.A., Arévalo, A., Della Rosa, P., Danna, M., & Perani, D. (2006). **The impact of semantic reference on word class: an fMRI study of action and object naming**. *Neuroimage*, Oct. 1; 32(4):1865-78.

Arévalo, A., Moineau, S., Saygin, A., Ludy, C., & Bates, E. (2005). **In search of Noun-Verb dissociations in aphasia across three processing tasks**. *CRL Newsletter*, 17(1), March.

Szekely, A., D'Amico, S., Devescovi, A., Federmeier, K., Herron, D., Iyer, G., Jacobsen, T., Arévalo, A., Vargha, A., & Bates, E. (2005). **Timed action and objects naming**. *Cortex*, 41(1), 7- 26.

Arévalo, A., Butler, A., Perani, D., Cappa, S., & Bates, E. (2004). **Introducing the Gesture Norming Study: A tool for understanding on-line word and picture processing**. Technical Report CRL-0401. La Jolla: University of California, San Diego, Center for Research in Language.

Szekely, A., Jacobsen, T., D'Amico, S., Devescovi, A., Andonova, E., Herron, D., Lu, C.C., Pechmann, T., Pléh, C., Wicha, N., Federmeier, K., Gerdjikova, I., Gutierrez, G., Hung, D., Hsu, J., Iyer, G., Kohnert, K., Mehotcheva, T., Orozco-Figueroa, A., Tzeng, A., Tzeng, O., Arévalo, A., Vargha, A., Butler, A., Buffington, R., & Elizabeth Bates (2004). **A new on-line resource for psycholinguistic studies**. *Journal of Memory and Language*, 51, 247-250.

Arévalo, A. (2002). **Teasing apart actions and objects: a picture naming study**. *CRL Newsletter*, 14(2), May.

Baldo, J.V., Arévalo, A., Patterson, J.P., & Dronkers, N.F. **Grey and White Matter Correlates of Picture Naming: Evidence from a Voxel-based Lesion Analysis of the Boston Naming Test**. Submitted

Moineau, S., Arévalo, A., & Bates, E. The effects of Perceptual Degradation on Lexical Processing in Bilinguals. In Preparation.