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Alex de Carvalho, PhD

Postdoctoral Researcher, Department of Psychology (Trueswell & Gleitman Lab)

University of Pennsylvania, Philadelphia – USA

Phone: +1-215-909-1914 // +33.6.49.17.70.01

x.de.carvalho@gmail.com

<http://www.lscp.net/persons/decarvalho/>

Nationality: French & Brazilian



Education

2014 – 2017 **PhD Cognitive Sciences**, *École Normale Supérieure de Paris – PSL University*, France.

Thesis title: “The role of phrasal prosody and function words in the acquisition of word meanings”

Advisor: Anne Christophe

Distinction: Highest Honors

2012 – 2014 **M.A. Cognitive Sciences**, *École Normale Supérieure de Paris*, France

Thesis title: “The impact of syntactic context in the interpretation of novel verb meanings”

Advisor: Anne Christophe

With Highest Honors (ranked 1st / 52 students)

2007 – 2011 **B.A. in Linguistics/Education**, *Federal University of Rio de Janeiro* - Brazil

With Highest Honors

Additional training

June-July 2015 **Linguistic Society of America – Summer Linguistic Institute**, U of Chicago, USA

Classes: Syntax-Phonology Interface – *Instructor: Caroline Féry*;

Intonational Phonology and Prosodic Typology – *Instructor: Sun-Ah Jun*;

Word Prosody – *Instructor: Larry Hyman*;

From Input to production through perception: Making the most of extant data in early language acquisition research – *Instructors: Amanda Seidl & Alex Cristia*

March 2015 **School of Advanced Studies of ANPOLL International Psycholinguistics Congress**

UFRJ & PUC-Rio – Rio de Janeiro/Brazil – 2015

Classes: The evolution of the faculty of language - *Instructor: Robert Berwick*;

The study of learning mechanisms in the brain - *Instructor: Randy Gallistel*;

Language, Self, and Mental Health - *Instructor: Wolfram Hinzen*; Domain General and

Domain Specific Mechanisms in Real-time Grammatical Computation *Instructor: Colin Phillips*

June 2014 **ESCOP Summer School on Language** - Summer school of the European Society for

Cognitive Psychology. BCBL San Sebastián/Spain

Sep-Oct 2013 **4th summer school on "Speech Production and Perception: Speaker-Specific Behavior"**

Aix-en-Provence, France

Oct 2008 IV ISBRA : IBRO Summer school of Neuroscience. Rio de Janeiro, Brazil

Employment

Feb 2018 **Post-doctorate**, *University of Pennsylvania*, Philadelphia (USA)
 Oct 2017 – Feb 2018 **Post-doctorate**, *Laboratoire de Sciences Cognitives et Psycholinguistique*, Paris
 Feb 2009 – July 2010 **Pedagogical Director Assistant**, Dice English Course & Travels Ltda, Rio de Janeiro

Grants & Awards

2018 – 2019 **University Research Foundation (URF) Grant**, – \$38,198
 2018 – 2020 **Post-Doctoral Grant from the Fyssen Fondation** – 50,000€
 2014 – 2017 **PhD fellowship from École Normale Supérieure** – 62,600€
 2012 – 2014 **Master fellowship from École Normale Supérieure** – 24,000€
 2011 – 2012 **Ampère Excellence fellowship** – ENS, Lyon, – 12,000€
 2008 – 2010 **Undergraduate fellowship for research studies – CNPq, Brazil**, – R\$7,200
 2015 **Society for Language Development Student Award**
 2013 – 2017 **Paula Menyuk Travel Award** – *BUCLD*: Nov 2013, 2014, 2015, 2017
 2013 – 2016 **GDR Neuroscience of development Travel Award** – Sep 2013, 2014, Oct 2015, May 2016

Teaching Activities

Spring 2018 **Eye Movements in Perception, Language and Cognition** – 6h
 @ University of Pennsylvania – Philadelphia, France.
 for graduate students in Linguistics, Psychology and Computer Science

2015 - 2017 **Language Acquisition and Processing** – 64h
 @ École Normale Supérieure – Paris, France.
 for graduate students in Cognitive Science (COGMASTER: Research Master in Cognitive Science)

2016 - 2017 **Practical Workshop in Human Experimentation** – 32h
 @ École Normale Supérieure – Paris, France - (COGMASTER)

2014 - 2015 **Tools for Linguistic transcription and analysis** – 17h
 @ Université Paris Descartes – Sorbonne Paris Cité
 for graduate students in Linguistics (Sciences du Langage: signes, discours et monde contemporain)

Fall 2014 **"Biases in Research" Workshop** - Journée d'études "Le biais de l'expérimentateur" – 12h
 @ École Normale Supérieure – Paris, France (COGMASTER)

Summer 2013 **Advanced Topics in Language Acquisition** – 39h
 @ UFRJ - Federal University of Rio de Janeiro (Brazil)
 for graduate students from the Experimental linguistics program (POSLING)

2010 – 2011 **Portuguese Language** – 144h
 @ Université Michel de Montaigne, Bordeaux III (France)
 for undergraduate students in humanities and employees of the University

2010 – 2011 **Portuguese & Brazilian language, culture and civilization** – 336h
 @ Lycée François Magendie, Lycée de Graves, Collège Jules Ferry, Bordeaux (France).
 for students of middle and high school levels

Supervision of students

Supervision of 4 graduate students + 15 undergraduate students

- Graduate Students:

***Cécile Crimon** (Master 1 in Cognitive Science - École Normale Supérieure – 140h, from September 2017 until February 2018)

***Axel Barrault** (Master 1 and Master 2 in Cognitive Science - École Normale Supérieure – 840h, from January 2016 until July 2017)

***Monica Barbir** (Master 1 in Cognitive Science - École Normale Supérieure – 140h, from September 2014 until January 2015)

***Fosca Al-Roumi** (PhD Student in Astrophysics - École Normale Supérieure de Lyon– 35h October, 2014)

- Undergraduate Students:

***Yiyi (Yelina) Chen** (Candidate for B.A in Economics and Cognitive Science – College of Arts and Sciences, University of Pennsylvania – 280h, June-to-August, 2018)

***Elisabeth Le Maître** (L2: Second year of undergraduate studies in Cognitive Science – PSL Research University – 320h, Feb-to-July, 2017)

***Sylvie Maillot** (L3: Last year of undergraduate studies in Biology – École Normale Supérieure – 320h, May-to-July, 2016)

***Cécile Crimon** (L3: last year of undergraduate studies in Linguistics – Université Sorbonne Paris VII – 200h, February-to-July, 2016)

***Camille Fuzier** (Engineering Student in Physics – École Supérieure de Physique et de Chimie Industrielles - ESPCI-ParisTech, 154h June-to-July, 2015)

***Lola Turgis-Moy** (L3: last year of undergraduate studies in Linguistics – Université Paris III Sorbonne Nouvelle – 130h, April-to-July, 2015)

***Héloïse Athéa** (L1: first year of undergraduate studies in Science and Philosophy – Université Paris Sorbonne – 21h, May, 2016).

***Emma Bent**; (L3: last year of undergraduate studies in Geosciences – École Normale Supérieure – 35h, September-to-October, 2016)

✓ L3: last year of undergraduate studies in Biology – École Normale Supérieure – 35h:

***Antoine Picard, Félicie Lorenc** (November, 2016)

***Philippine Furge; Clemence Elmira** (October, 2016)

***Timothée Vigié; Adrien Bouscal; Raphaëlle Pradal** (from September until October, 2015)

Organization of scientific workshops, conferences and congresses

Since August 2018 **Convener, organizing committee of the Integrated Language Science and Technology (ILST) Interdisciplinary weekly seminars (at UPenn)** - Philadelphia - USA
 Invited speakers: *Sudha Arunachalam* (NYU), *Thomas Graf* (Stony Brook University), *Ping Li* (Penn State University), *Danielle Turton* (Newcastle University) and many others.

- March 2015 **Member of the organizing and scientific committee of *The 3rd ANPOLL International Psycholinguistics Congress in honor of Jacques Mehler***. Rio de Janeiro, Brazil.
Invited speakers: *Randy Gallistel and Rochel Gelman* (RuCCS, USA),
Robert Berwick (MIT, USA), *Colin Phillips* (U. Maryland), *Marina Nespou and Jacques Mehler* (SISSA, Italy), *Emmanuel Dupoux, Anne Christophe and Alejandrina Cristia* (ENS,EHESS,CNRS-France), *Rushen Shi* (UQAM, Canada), *Marcela Peña* (PUC, Chile),
Thierry Nazzi (CNRS, France), *Wolfram Hinzen* (ICREA, U. Barcelona) and many others:
<https://ipcinrio.sciencesconf.org>
- March 2014 **Member of the organizing and scientific committee of the 13th Forum of Cog Sciences**, Paris – France. *Humans, Animals and Machines: the crossroads of intelligences*.
Invited speakers: Jean-Claude Ameisen, Philippe Schlenker, Pierre-Yves Oudeyer, Martin Girufa, Nicolas Rougier, Joël Fagot. (see e.g., <http://youtu.be/Ye9AsPARSIk>)
- March 2013 **Member of the organizing committee of the 12th Forum of Cognitive Sciences**, Paris – France. *Quand la conscience fait science - When consciousness makes science*.
- Feb-April 2016 **Convener, organizing committee of the Workshop “How to use R for scientific publications”**
Invited speaker: Page Piccinini. *Ecole Normale Supérieure, Paris*.
- Jan 2016 **Organizer of the Workshop “How to fund your PhD project”**
for graduate students from region Ile-de-France, Paris.
- Sep 2015 **Convener, organizing committee of the poster presentations of the *Annual welcome day of the Department of Cognitive Sciences at Ecole Normale Supérieure, Paris***.

Institutional Responsibilities

- 2015 - 2016 **Vice-president and co-founder of the DEC-Life association**. DEC Life is an official Association financially supported by the *Department of Cognitive Sciences at Ecole Normale Supérieure* to promote and manage all kinds of department-wide scientific, cultural and social activities.
- 2015 - 2017 **Co-Manager of the partnership between the *Laboratoire de Sciences Cognitives et Psycholinguistique* and the public preschools in Paris to conduct experiments with children**.
- 2014 - 2017 **Webmaster of the Babylab of the *École Normale Supérieure***.
- 2012 - 2014 **Master students’ representative in the Pedagogical Council of the *Cogmaster*** (Research Master in Cognitive Science), Ecole normale supérieure, Université Paris Descartes, EHESS, Paris – France.

Reviewing Activity

Psychological Science; Language Acquisition; Journal of the Acoustical Society of America (JASA); Frontiers in Psychology; Infancy; Cognition; Cognitive Science; Society for Research on Child Development (SRCO); Language and Speech; Language, Learning and Development; MPaL (Many paths to Language) Workshop; Boston University Conference on Language Development (BUCLD)

Major Collaborations

Topic: Prosodic bootstrapping

Collaborators: *Jeffrey Lidz* (Full professor, University of Maryland, USA),
Isabelle Dautriche (Early Career Research Fellow, University of Edinburgh)
Anne Christophe (Ecole normale supérieure, PSL University - Paris, France)
Séverine Millotte (CNRS - Université Bourgogne Franche-Comté - UMR 5022 -Dijon, France)

Topic: The real-time interpretation of nouns and verbs

Collaborators: *Sandra Waxman* (Full professor, Northwestern University, USA)

Topic: Interactions between parsing and learning

Collaborators: *John Trueswell* (Full professor, University of Pennsylvania, USA)

Topic: Scalar Implicatures: pragmatic inferences on word processing

Collaborators: *Anne Reboul & Tatjana Nazir* (Senior Research Scientist, CNRS - Lyon)

Topic: The acquisition of negation

Collaborators: *Sudha Arunachalam* (Associate professor, Boston University (moving to NYU), USA),
Angela Xiaoxue He (Postdoctoral Research, University of Southern California, USA)

Publications

International peer-reviewed journals:

de Carvalho, A., He, A. X., Lidz, J., & Christophe, A. (in press). Prosody and function words cue the acquisition of word meanings in 18-month-old infants. *Psychological Science*

de Carvalho, A., Dautriche, I., Lin, I., & Christophe, A. (2017). Phrasal prosody constrains syntactic analysis in toddlers. *Cognition*, 163(6), 67-79. doi:10.1016/j.cognition.2017.02.018. (Cited 7 times)

de Carvalho, A.*, Reboul, A.*, Van der Henst, J-B., Chelyus, A., Nazir, T. (2016). Scalar Implicatures: The Psychological Reality of Scales. *Frontiers in Psychology*. 7:1500. doi: 10.3389/fpsyg.2016.01500. (Cited 2 times)

de Carvalho, A., Dautriche, I., Christophe, A. (2016). Preschoolers use phrasal prosody online to constrain syntactic analysis. *Developmental Science*, 19(2), 235-250. (Cited 17 times)

de Carvalho, A., Lidz, J., Tieu, L., Bleam, T., & Christophe, A. (2016). English-speaking preschoolers can use phrasal prosody for syntactic parsing. *Journal of the Acoustical Society of America*, 139(6), EL216-EL222 (Cité 5 times)

Havron, N., **de Carvalho, A.**, Fiévet, A-C, & Christophe, A. (2018). 3-4-year-old children rapidly adapt their predictions and use them to learn novel word meanings. *Child Development*, 1-9. doi: <https://doi.org/10.1111/cdev.13113>.

Brusini, Dehaene-Lambertz, van Heugten, **de Carvalho**, Goffinet, Fiévet, & Christophe (2017) Ambiguous function words do not induce miscategorization errors in 18 month-olds: An ERP study – *Neuropsychologia*, 98, 4-12. doi.org/10.1016/j.neuropsychologia.2016.08.015. (Cited 7 times)

○ *Submitted:*

de Carvalho, A., Crimon, C., Barrault, A., Trueswell, J., & Christophe, A. (in revision). "Look! It is not a bamoule!" 18- and 24-month-olds can use negative sentences to constrain their interpretation of novel word meanings.

de Carvalho, A., Babineau, M., Trueswell, J., Waxman, S., & Christophe, A. (under review). Studying the real-time interpretation of novel noun and verb meanings in young children.

○ *In progress:*

de Carvalho, A., & Trueswell, J. (in prep). The role of phrasal prosody to constrain online parsing in English

de Carvalho, A., Trueswell, J., & Christophe, A. (in prep). Children fail to revise their syntactic analysis, even when their initial interpretation is driven by prosodic cues.

de Carvalho, A.*, Dautriche, I.*, Christophe, A. (in prep). Toddlers flexibly interpret novel verbs in different syntactic contexts

Book chapters:

de Carvalho, A., Dautriche, I., Millotte, S., & Christophe, A. (2018). Early perception of phrasal prosody and its role in syntactic and lexical acquisition. In P. Prieto, N. Esteve-Gibert. *Prosodic Development in First Language Acquisition*. John Benjamins (TILAR Series), 17-35. <https://doi.org/10.1075/tilar.23.02car>

Brusini, P., **de Carvalho, A.**, Dautriche, I., Gutman, A., Cauvet, E., Millotte, S. & Christophe, A. (2018) Bootstrapping lexical and syntactic acquisition. In M. Kail, M. Hickman & E. Veneziano, *Sources of variations in first language acquisition: Languages, contexts, and learners*. Trends in Language Acquisition Research, John Benjamins, 22, pp. 63-80. <https://doi.org/10.1075/tilar.22.04bru>

Proceedings, national peer-reviewed journals:

Christophe, A. Dautriche, I., **de Carvalho, A.**, & Brusini, P. (2016). Bootstrapping the Syntactic Bootstrapper. In: J. A. Scott & D. Waughtal (Eds.), *Proceedings of the 40th Annual Boston University Conference on Language Development*. 75-88.

de Carvalho, A., & Cristia, A. (2015). The discovery of the native language in the young child. *Revista Linguística*. Vol 11, n 1, June 2015, p. 57-70. <http://www.letras.ufrj.br/poslinguistica/revistalinguistica/wp-content/uploads/2015/08/revista-linguistica-v11-n1-artigo2.pdf>

França, A., **de Carvalho, A.**, Lage, A., de Sa, M (2014) The acquisition of coordination of PPs and the acquisition of recursion of PPs: how to fare the development of these computations? *Revista da ABRALIN / Brazilian Association of Linguistics*, 13 (2), p. 333-350.

de Carvalho, A., França, A (2011). Improvement of techniques to study early language development. In: *Proceedings of the 16th Congreso Internacional de La Asociación de Lingüística y Filología de América Latina*. Alcalá, Spain. p.2953-2960. (Paper written in Portuguese)

de Carvalho, A., Costa, M., França, A (2011). New strategies for the production of scalar implicature. In: *Proceedings of the 16th Congreso Internacional de La Asociación de Lingüística y Filología de América Latina*. Alcalá, Spain. p.1255-1260. (Paper written in Portuguese)

Machado, A., Souza, M., Sampaio, T., **de Carvalho, A** (2011). Speech perception: natural and environmental influences on language acquisition. In: *Proceedings of the 4th Scientiarum historia - 4º Congresso de história das ciências e das técnicas e epistemologia*. (1).p. 67-73. (Paper written in Portuguese)

Media Coverage:

By Fleur Mongibeaux (2017) - *La Maison des Maternelles (France 5 television)*. Le rôle des intonations des phrases pour apprendre le sens des mots. October, 2017.

http://sapience.dec.ens.fr/babylab/media/television/maison_maternelles_2017.mp4

By Clémence Girard (2016) – *Science et Vie Magazine*, Bébés et déjà Savants. In: Réussir à l'École. Les leçons des neurosciences. Hors Serie 278, Mars 2017, 37-43.

http://sapience.dec.ens.fr/babylab/media/presse/2017_scienceetvie.pdf

By Mathilde Demoisel (2015) – ARTE Television

By Catherine Marchi (2014) - Children's language decrypted – Magazine Parents – Paris.

<http://www.parents.fr/Best-of-Mag/Pediatrie/Reportage-au-BabyLab-le-langage-des-enfants-decrypte>

By Miriam Paço – AgN/CT (2008) - The perception of consonants by newborns. (On Olhar Virtual – Argumento) - Agência virtual de notícias UFRJ - Centro de Tecnologia, Rio de Janeiro, 14 nov. - Brazil.

http://www.olharvirtual.ufrj.br/2006/index.php?id_edicao=152&codigo=3

Invited Talks

January, 2018 – **Department of Linguistics, School of Communication, Ulster University, Belfast – UK**

Invited by Professors Jacopo Romoli and Juliana Gerard

Title: Phrasal prosody cues the acquisition of syntax and word meanings in infants

October, 2015 - **The Language Development and Language Processing Lab, University of Pennsylvania**

Invited by Professor John Trueswell

Title: The relationship between prosodic and syntactic structures affects children's syntactic analysis and impacts their learning

July, 2015 - **Language Acquisition Lab, University of Illinois / Champaign, IL – USA**

Invited by Professor Cynthia Fisher

Title: Infants can use phrasal prosody as a cue to learn syntax and word meanings.

November, 2014 - **Linguistics Departmental seminar, University of Maryland / College Park, MD – USA**

Invited by Professor Jeffrey Lidz

Title: Bootstrapping early lexical and syntactic acquisition.

October, 2014 - *Perspectives on Language Development Symposium / Nijmegen - Netherlands*

Title : Computing a syntactic skeleton with phrasal prosody and function words.

September, 2013 - *II Int Conference of the School of Languages and Literatures - CIFALE. Brazil*

Invited by Professor Marcus Maia

Title : The Cognitive Development of Infants.

Conference Presentations

In International peer-reviewed conferences:

○ Talks:

de Carvalho, A., Trueswell, J., & Christophe (2018). Preschoolers fail to revise their syntactic analysis, even when their initial interpretation is driven by prosodic cues. *43rd Boston University Conference on Language Development - BUCLD*. Boston, MA - USA; November, 2nd 2018.

Babineau, M., **de Carvalho, A.**, Trueswell, J., & Christophe, A. (2018). Bootstrapping syntactic acquisition with a semantic seed. *43rd Boston University Conference on Language Development - BUCLD*. Boston, MA - USA; November, 3rd 2018.

de Carvalho, A., Barrault, A., & Christophe, A. (2017). “Look! It is not a bamoule!” 18-month-olds understand negative sentences. *42nd Boston University Conference on Language Development - BUCLD*. Boston, MA - USA; to be presented on November, 3rd 2017.

de Carvalho, A., Dautriche, I., He, A. X., Lidz, J., & Christophe, A. (2016). The acquisition of word meanings: interactions between parsing and learning. *20th biennial meeting of the International Congress on Infant Studies - ICIS*. New Orleans, LA - USA; May, 2016

de Carvalho, A., He, A. X., Lidz, J., & Christophe, A., (2015). 18-month-olds use the relationship between prosodic and syntactic structures to constrain the meaning of novel words. *40th Boston University Conference on Language Development - BUCLD*. Boston, MA - USA; November, 2015

de Carvalho, A., He, A. X., Dautriche, I., Lidz, J., & Christophe, A., (2015). Phrasal prosody helps infants to access the syntactic structure of sentences. In: the 12th *Generative Approaches to Language Acquisition Conference (GALA 12)* - University of Nantes, Nantes (France), September 10-12, 2015.

de Carvalho, A., Dautriche, I., Christophe, A. (2014). Phrasal Prosody constrains online syntactic analysis in two-year-old children. *39th Boston University Conference on Language Development - BUCLD*, Boston (USA), 7-9 November.

de Carvalho, A., Dautriche, I., Christophe, A. (2014). Toddlers exploit prosodic structure online to constrain syntactic analysis. *AMLaP Conference – Architectures and Mechanisms for Language Processing*. Edinburgh, Scotland, 4-6 September.

de Carvalho, A., Dautriche, I., Christophe, A. (2013). Three-year-olds use prosody online to constrain syntactic analysis. *38th Boston University Conference on Language Development - BUCLD*, Boston (USA), 1-3 November.

de Carvalho, A., Dautriche, I., Christophe, A., (2015). Two-Year-Olds correctly adjust their syntactic interpretations following the information provided by different syntactic contexts. In: *the 3rd International Psycholinguistics Congress: Domain Specificity in Language Acquisition and Processing in honor of Jacques Mehler* – Rio de Janeiro, Brazil, 16-24 March 2015.

de Carvalho, A., Dautriche, I., Christophe, A., (2013) Children's use of prosody to compute syntactic structure on-line. *4th International summer school on Speech Production and Perception: Speaker-Specific Behavior*. Aix-en-Provence (France), 30 Sep – 4 Oct.

de Carvalho, A., Costa, M., França, A. (2011) The children's cognition of scalar implicatures. *Primer Encuentro de Grupos de Investigación sobre Procesamiento del Lenguaje* – PROLEN. Buenos Aires (Argentina), 4 – 6 Mai.

○ Posters:

Barrault, A., Havron, N., Dautriche, I., **de Carvalho, A.**, & Christophe, A (2018). When predictions fail: Adults and children stop predicting upcoming syntactic categories in unreliable contexts. *43rd Boston University Conference on Language Development - BUCLD*. Boston, MA - USA; November, 2nd 2018.

de Carvalho, A., Trueswell, J., & Christophe, A. (2018). Children fail to revise their syntactic analysis, even when their initial interpretation is driven by prosodic cues. *31st Annual CUNY Sentence Processing Conference*, Sacramento, CA – USA; March 15-17.

de Carvalho, A.*, Dautriche, I.* & Christophe, A. (2015). Toddlers flexibly interpret novel verbs in different syntactic contexts. *Society for Research in Child Development 2015 Biennial Meeting - SRCD*. Pennsylvania - USA; March 19-21.

de Carvalho, A., Costa, M., França, A. (2011). Strategies of oral productions using scalar implicatures by children. *The VIIth International Conference of the Brazilian Linguistics Association (Abralin)*. Curitiba (Brazil). February

de Carvalho, A., França, A. (2010). Early language development: high-amplitude sucking paradigm. *First International Psycholinguistics Congress*. Rio de Janeiro (Brazil). March

Oral presentations in other conferences, seminars and workshop

de Carvalho, A., Dautriche, I., Christophe, A. (2014). The impact of syntactic context during toddlers' online processing of a novel verb argument structure. *Journée du GDR Neurosciences Cognitives du Développement*, Paris, (France). September 26th, 2014. (Talk)

de Carvalho, A., Dautriche, I., Christophe, A. (2013). Three year-olds process phonological phrase boundaries to constrain the online syntactic analysis of spoken sentences. *Journée du GDR Neurosciences Cognitives du Développement*, Paris, (France). July 4th, 2013. (Talk)

de Carvalho, A. Rodrigues, L. (2010) Francês Língua Estrangeira (FLE): novas perspectivas de ensino para crianças de 6 a 10 anos. *X Symposium des études supérieures et de recherches en lettres néo-latines*. UFRJ. Rio de Janeiro (Brazil). (Talk)

Machado, A., Souza, M., Samapio, T., **de Carvalho, A.** (2011). Percepção da fala: influências naturais e ambientais na aquisição de linguagem. *4º Congresso de história das ciências e das técnicas e epistemologia*. Rio de Janeiro (Brasil). (Talk)

Skills

- **Languages**

Portuguese: Native speaker

French: Near-native

English: Advanced level

Spanish : Read: advanced, written and spoken: intermediary.

Italian: Beginning.

- **Computer**

Software's knowledge: Python, Praat, R, MatLab-Psychtoolbox, Habit, Statistica, Psychopy, OpenSesame, Audacity, Photoshop, Adobe Premier Elements, E-prime, etc.