

Ana Alves Francisco

Cognitive Neurophysiology Laboratory
Department of Pediatrics, Albert Einstein College of Medicine
Van Etten Building, Room 1C-3B; 1225 Morris Park Avenue, Bronx, NY 10461

718-862-1284
ana.alvesfrancisco@einstein.yu.edu

Education

2017	PhD	Social Sciences; Neuroscience Behavioural Science Institute, Radboud University, the Netherlands Dissertation: Audiovisual processing in dyslexia Advisors: Dr. James McQueen, Dr. Margriet Groen, and Dr. Alexandra Jesse
2008	Undergraduate Degree ("Licenciatura")	Clinical Psychology, Algarve University, Portugal Thesis: The influence of imagery in false memories Advisor: Dr. Luis Faisca

Positions and Employment

2019-present	Adjunct Professor, Yeshiva University (Clinical Psychology Graduate Program; Science of Cognitive and Affective Function)
2017-present	Post-doctoral Research Fellow, Cognitive Neurophysiology Laboratory (Dr. Sophie Molholm and Dr. John Foxe), New York, USA
2016-2017	Research trainee, Cognitive Neurophysiology Laboratory (Dr. Sophie Molholm and Dr. John Foxe), New York, USA
2012 (September-December)	Visiting Scholar, Departments of Cognitive Psychology (Dr. Michael Vitevitch) and Speech-Language-Hearing (Dr. Holly Storkel), the University of Kansas, USA
2010-2013	Pre-doctoral student and research assistant, Cognitive Neuroscience Research Group, Algarve University, Portugal

Invited talks

Francisco, A.A. (2018, May). Electrophysiological markers of sensory processing in 22q11.2DS and Schizophrenia. Invited talk presented at the University of Geneva, Geneva, Switzerland.

Francisco, A.A. (2018, May). Adult dyslexic readers benefit less from visual input during audiovisual speech processing: fMRI evidence. Invited talk presented at the Psychonomic Society Meeting, Amsterdam, the Netherlands.

Francisco, A.A. (2018, May). 22q11.2DS: Clinical and electrophysiological characteristics. Invited talk presented at the University of Lisbon, Lisbon, Portugal.

Francisco, A.A. (2017, November). Brain function in 22q11.2DS. Invited talk presented at the Children's Hospital of Philadelphia, Philadelphia, USA.

Francisco, A.A. (2017, November). Audiovisual processing in Dyslexia. Invited talk presented at the University of Massachusetts Amherst, Amherst, USA.

Francisco, A.A. (2017, March). Audiovisual speech perception in adult dyslexic readers: EEG and behavioral evidence. Invited talk presented at the Cognitive Neurophysiology Laboratory, New York, USA.

Francisco, A.A. (2014, September). Audiovisual temporal sensitivity in typical and dyslexic adult readers. Invited talk presented at the 15th Annual Conference of the International Speech Communication Association, Singapore, Singapore.

Publications

Journal Articles (Peer-Reviewed)

Araujo, S., Inacio, F., **Francisco, A.**, Faisca, L., Petersson, K.M., & Reis, A. (2011). Component processes subserving rapid automatized naming in dyslexic readers. *Dyslexia*, 17, 242-255.

Bramao, I., **Francisco, A.**, Inacio, F., Faisca, L., Petersson, K.M., & Reis, A. (2012). Electrophysiological evidence for color effects in diagnostic and non-diagnostic color object recognition. *Visual Cognition*, 20(10), 1164-1185.

Francisco, A.A., Groen, M.A., Jesse, A., & McQueen, J.M. (under review). An audiovisual processing deficit in dyslexic adult readers: behavioral, but no ERP evidence. *Neuropsychologia*.

Francisco, A. A., Groen, M. A., Jesse, A., & McQueen, J. M. (2017). Beyond the usual cognitive suspects: The importance of speechreading and audiovisual temporal sensitivity in reading ability. *Learning and Individual Differences*, 54, 60-72.

Francisco, A. A., Jesse, A., Groen, M. A., & McQueen, J. M. (2017). A general audiovisual temporal processing deficit in adult readers with dyslexia. *Journal of Speech, Language, and Hearing Research*, 60, 144-158.

Francisco, A.A., Takashima, A., McQueen, J.M., van den Bunt, M., Jesse, A., & Groen, M. (2018). Adult dyslexic readers benefit less from visual input during audiovisual speech processing: fMRI evidence. *Neuropsychologia*, 117, 454-471.

van den Bunt, M., **Francisco A.A.**, Takashima, A., Mars, R.B., Verhoeven, L., & Groen, M.A. (under review). Neurobiological evidence for deficiencies in the interaction between speech perception and production in developmental dyslexia. *eLife*.

van den Bunt, M. R., Groen, M. A., Ito, T., **Francisco, A. A.**, Gracco, V. L., Pugh, K. R., & Verhoeven, L. (2017). Increased Response to Altered Auditory Feedback in Dyslexia: A Weaker Sensorimotor Magnet Implied in the Phonological Deficit. *Journal of Speech, Language, and Hearing Research*, 60(3), 654-667.

Vitevitch, M.S., Storkel, H.L., **Francisco, A.**, Evans, K.J., & Goldstein, R. (2014). The influence of known-word frequency on the acquisition of new neighbors in adults: Evidence for exemplar representations in word learning. *Language, Cognition and Neuroscience*, 29(10), 1311-1316.

Dissertation

Francisco A.A. (2017). *Audiovisual processing in Dyslexia*. Doctoral Dissertation, Radboud University, the Netherlands.

Proceedings Papers

Francisco, A. A., Jesse, A., Groen, M. A., & McQueen, J. M. (2014). Audiovisual temporal sensitivity in typical and dyslexic adult readers. *Proceedings of the 15th Annual Conference of the International Speech Communication Association (Interspeech 2014)* (pp. 2575-2579), Singapore, Singapore.

Published Abstracts in Proceedings

Francisco, A.A., Horsthuis, D. J., Foxe, J. J., & Molholm, S. (2018). Executive function in Cystinosis: Behavioral and EEG evidence. *Abstracts of the 2018 International Psychonomic Society Meeting*, Amsterdam, the Netherlands.

Francisco, A.A., Molholm, S., Behar, K., & Foxe, J. J. (2017). Executive function in Cystinosis: EEG evidence. *Abstracts of the 2017 Cystinosis Research Network Conference*, Utah, USA.

Francisco, A.A., Foxe, J. J., Frey, H., & Molholm, S. (2017). Cross-prediction in ASD. *Proceedings of the International Multisensory Research Forum 2017*, Nashville, USA.

Francisco, A. A., Groen, M. A., Jesse, A., & McQueen, J. M. (2015). Audiovisual processing in adult dyslexic readers: in tune but out of step. *Abstracts of the BSI Day*, Nijmegen, the Netherlands.

Francisco, A. A., Groen, M. A., Jesse, A., & McQueen, J. M. (2014). Audiovisual temporal sensitivity in dyslexic adult readers, *Abstracts of the Donders Discussions*, Nijmegen, the Netherlands.

Francisco, A. A., Groen, M. A., Jesse, A., & McQueen, J. M. (2014). Wider audiovisual windows do not result in higher rates of McGurk fusions. *Proceedings of the 15th International Multisensory Research Forum* (p. 107), Amsterdam, the Netherlands.

Francisco, A. & Inacio, F., & Faisca, L. (2013). The influence of phonotactic probability and neighborhood density in word learning. *Abstracts of 8th APPE Meeting*, Aveiro, Portugal.

Francisco, A. & Faisca, L. (2012). Bidirectional association between vocabulary and phonology? A correlational study. *Abstracts of 7th APPE Meeting*, Lisboa, Portugal.

Inacio, F., **Francisco, A.**, & Faisca, L. (2014). Word learning in European Portuguese: The influences of neighborhood density and phonotactic probability. *Abstracts of 9th APPE Meeting*, Covilha, Portugal.

Inacio, F. C., Araujo, S., **Francisco, A.**, Faisca, L., Petersson, K. M., & Reis, A. (2010). Understanding rapid naming deficits in dyslexia: A response time analysis. *Journal of the International Neuropsychological Society*, 16, Suppl. 2, 51.

Awards and Grants

2017	\$38,352	Mechanisms Underlying Neurocognitive Changes in Cystinosis, Received from the Cystinosis Research Network
2015	575€	Erasmus Staff Training, Radboud University
2014	778€	Erasmus Staff Training, Radboud University
2014	3,000€	PhD Mobility Fund, Radboud University
2012	2,900€	Visiting scholar grant (at the University of Kansas), Fundacao para a Ciencia e a Tecnologia
2010	47,000€	Individual research grant, Fundacao para a Ciencia e a Tecnologia Cognitive Neuroscience Research Group, Algarve University
2009	1,000€	Merit Scholarship (best student award) Awarded by Algarve University

Professional Activities

Teaching

Algarve University, Portugal, 2008-2012

Statistics tutor (teaching assistant in Statistics, levels I and II)

Student Supervision

Ph.D. Students

Chloe Ifrah (Ferkau Graduate School of Psychology, Yeshiva University), 2017 – present
Currently working on visual processing in Schizophrenia and 22q11.2 Deletion Syndrome

M.Sc. students

Grazia di Pisa (Donders Institute for Brain, Cognition and Behaviour, Radboud University, the Netherlands), 2014 – 2015

Thesis: *Audiovisual integration in dyslexic and typical readers as revealed by oscillations*

Maike Garos (Pedagogical Sciences, Radboud University Nijmegen, the Netherlands), 2014 –2015

Thesis: *Audiovisual benefit in typical and dyslexic children: Does it explain differences in reading and reading-related abilities?*

Noor van der Windt (Pedagogical Sciences, Radboud University Nijmegen, the Netherlands), 2014 –2015

Thesis: *Audiovisual speech perception in primary and high school students with reading difficulties*

Interns

Mariana Lucas (Albert Einstein College of Medicine), summer 2018

Project: Sensory processing in 22q11.2 Deletion Syndrome

Candice Medina (Albert Einstein College of Medicine), summer 2018

Project: Multisensory attention in Autism Spectrum Disorder

York Chen (Albert Einstein College of Medicine), summer 2017

Project: Basic auditory processing in 22q11.2 Deletion Syndrome

Jason Siev (Albert Einstein College of Medicine), summer 2017
Project: Basic visual processing in 22q11.2 Deletion Syndrome

Editorial Service

Ad hoc Reviewer for Journals: European Journal of Neuroscience

Membership in Professional Organizations

Psychonomic Society; American Association for the Advancement of Science

Technical Skills

Scientific Software: Adobe Premiere, EEGLab, ERPLab, PRAAT

Experimental Software: Presentation

Statistical Packages: R, SPSS

Others: Matlab

Others

Currently working on a new website for the Laboratory

Volunteering: End-of-life support; working with cancer patients at the Montefiore Hospital