

Douwe J Horsthuis

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Creative thinker. Data analyst and project manager. Experienced educator in clinical and non-clinical contexts. Proficient in different programming languages and (clinical research) regulatory affairs.

PROFESSIONAL HISTORY

2019-present	Data analyst	Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, USA <u>Responsibilities</u> : behavioral and neural data analyses (accuracy/reaction times; ERPs, source localization, frequency analysis, microstates), data visualization
2020-present	Research technician C	Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, USA <u>Responsibilities</u> : EEG data collection, datasets and database maintenance and management, data organization and back-up, recruitment of clinical and non-clinical populations, scheduling, equipment maintenance
2019-2020	Research technician B	Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, USA
2018-present	EEG Lab manager	Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, USA <u>Responsibilities</u> : team and lab management, new lab members orientation and instruction, development and piloting of new EEG paradigms
2017-2019	Research technician A	Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, USA
2016	Freelance translator	IQ Leads, remote <u>Responsibilities</u> : translation of website (Dutch-English)
2016	Long-term substitute teacher	Jeroen Bosch school/Jan Ligthart school (and other schools in the district as short-term), 1 st to 7 th grade, the Netherlands <u>Responsibilities</u> : teaching and class management, class preparation (method-based lessons and development of materials from scratch), grading and feedback, leading meetings with parents, field trip organization and supervision

EDUCATION

2008-2015	Bachelor of Education	Saxion, Enschede, the Netherlands
2008-2014	Teaching internships	Several locations, Portugal and the Netherlands

CONTINUING EDUCATION

2021	Google Data Analytics	professional certificate; Google (through Coursera)
2020	Introduction to Data Science	specialization (courses 1 & 2); IBM (through Coursera)

PUBLICATIONS

Journal articles (peer-reviewed)

De Sanctis, P., Wagner, J., Molholm, S., Foxe, J.J., Blumen, H. M., & **Horsthuis, D.J.** (in press). Neural signature of everyday function in older adults at-risk of cognitive impairment. *Neurobiology of Aging*.

Francisco, A.A., Foxe, J.J., **Horsthuis, D.J.**, & Molholm, S. (2022). Early visual processing and adaptation as markers of disease, not vulnerability: Event-related potential (ERP) evidence from 22q11.2 deletion syndrome, a population at high risk for schizophrenia. *npj Schizophrenia*.

Francisco, A.A., Foxe, J.J., **Horsthuis, D.J.**, DeMaio, D., & Molholm, S. (2020). Assessing auditory processing endophenotypes associated with Schizophrenia in individuals with 22q11.2 Deletion Syndrome. *Translational Psychiatry*, 10(1), 1-11.

Francisco, A.A., Foxe, J.J., **Horsthuis, D.J.**, & Molholm, S. (2020). Electrophysiological evidence for impaired auditory sensory memory in Cystinosis despite typical sensory processing: An MMN investigation. *NeuroImage: Clinical*, 102170.

Journal articles (peer-reviewed) [continued]

Francisco, A. A., **Horsthuis, D. J.**, Popiel, M., Foxe, J. J., & Molholm, S. (2020). Atypical response inhibition and error processing in 22q11.2 Deletion Syndrome and Schizophrenia: Towards neuromarkers of disease progression and risk. *NeuroImage: Clinical*, 102351.

Published abstracts in proceedings

Francisco, A. A., **Horsthuis, D. J.**, Castillo, R. J., Foxe, J. J., & Molholm, S. (2021). Plan Ahead for Success: Inhibitory Control Deficits in Schizophrenia Start During the Planning Stages. *Biological Psychiatry*, 89(9), S309.

Francisco, A.A., **Horsthuis, D. J.**, Foxe, J. J., & Molholm, S. (2021). Plan ahead for success: Inhibitory control deficits in schizophrenia start during the planning stages. *Abstracts of the Annual Scientific Convention of the Society of Biological Psychiatry*, USA.

Horsthuis, D. J., Francisco, A.A., Foxe, J.J., & Molholm, S. (2020). Assessing auditory processing endophenotypes associated with Schizophrenia in individuals with 22q11.2 Deletion Syndrome. Abstract Book of the Cognitive Neuroscience Society Meeting, virtual meeting (https://www.youtube.com/watch?v=S0ilg4s-jlY&t=1s&ab_channel=DouweHorsthuis).

Francisco, A.A., **Horsthuis, D. J.**, Foxe, J. J., & Molholm, S. (2019). Basic auditory processing in 22q11.2 Deletion Syndrome and its association with cognitive profile and psychotic symptomatology. *Schizophrenia Bulletin*, 45(2), S272.

Francisco, A.A., **Horsthuis, D. J.**, Denison, J., Foxe, J. J., & Molholm, S. (2019). Response inhibition in 22q11.2DS: Delayed differentiation between false alarms and correct inhibitions and a marked reduction in the error-related positivity. *Abstracts of the 74th Annual Scientific Convention of the Society of Biological Psychiatry*, Chicago, USA.

Francisco, A.A., **Horsthuis, D. J.**, Foxe, J. J., & Molholm, S. (2019). Basic auditory processing in adolescents and adults with 22q11.2 Deletion Syndrome and its association with cognitive profile and psychotic symptomatology. *Abstracts of the 2019 Congress of the Schizophrenia International Research Society*, Orlando, USA.

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

INVITED TALKS

Horsthuis, D. J. (2021). Electrophysiological evidence for impaired auditory sensory memory in Cystinosis despite typical sensory processing: An MMN investigation. Invited talk at the Pediatrics Research Day, Albert Einstein College of Medicine, USA.

VOLUNTEERING

2021	Pro bono consultant	Service Corps, Net Impact, NYC Chapter, USA <u>Responsibilities:</u> to develop a strategic plan for data collection and management for Harlem Grows
2020-present	Community and events assistant	Bronx Documentary Center, USA <u>Responsibilities:</u> assistance at different levels in community-centered events (e.g., free eye clinic for the South Bronx community)
2016-2017	Research assistant	Cognitive Neurophysiology Laboratory, Albert Einstein College of Medicine, USA <u>Responsibilities:</u> EEG data collection, data organization and back-up
2015-2016	Educator	Pluryn, Arnhem, NL <u>Responsibilities:</u> social education and care for institutionalized children with special needs and developmental and psychiatric disorders

TECHNICAL SKILLS**Programming Languages**

C/C++ | SDL and PCL (proficient)

PHP+ JavaScript | SQL | Python | R (basic-to-intermediary)

Scientific Software

Matlab, EEGLab, ERPLab

Experimental Software

Presentation Neurobs

Statistical Packages

R

Data Visualization Software

Tableau

OTHERS

I am a founding member of C.O.D.E (Community Outreach and increasing Diversity Efforts), founded to share expertise in scientific methods and skills in programming utilizing different languages with historically excluded communities in STEM. I co-organized and hosted Brains & Beginnings 2021, a virtual chat series where members of the scientific community at Albert Einstein College of Medicine engaged with New Yorkers and discussed their respective journeys to achieving careers in science.

I engage in community outreach and education, by visiting high schools and introducing scientific concepts related to our work at the Lab.

LANGUAGES

Dutch (native), English (native/bilingual proficiency), German (limited working proficiency)

REFERENCES

Sophie Molholm, PhD

Professor, Departments of Pediatrics, Neuroscience, and Psychiatry & Behavioral Sciences
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John J Foxe, PhD

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