

# Noémie A.G. te Rietmolen

## Curriculum Vitae

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## DOCTORAL RESEARCH

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### “Neural signature of metrical stress processing in French”

My research examined metrical stress processing during speech comprehension in French. I was particularly interested in the interplay between rhythmic and metrical structure on one hand, and neural oscillatory activity on the other, in guiding attention to the crucial time-points in speech for optimal speech processing.

## PROF. EXPERIENCE

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2021–

Dr. Kristof Strijkers and Dr. Benjamin Morillon – ILCB  
Marseille

### *Post-Doctoral Researcher*

Speech & music perception with intracranial recordings (sEEG).

2019 – 2021

Dr. Daniele Schön – INS Marseille

### *Post-Doctoral Researcher*

Investigating speech & music perception with intracranial recordings (sEEG).

2014 – 2019

Dr. Corine Astésano and CNRS. Dr. Simon Thorpe –  
UTMII and CerCo Toulouse

### *Doctoral Student*

Neural signature of metrical stress processing in French.

2012 – 2013

Prof. Dr. Annette de Groot and Dr. Monique Lamers –  
VU Amsterdam and UvA Amsterdam

### *Thesis/Researcher*

In search of the referent: ambiguous and unambiguous  
anaphor resolution. An eye-tracking study.

(awarded the Anéla-VIOT Thesis award for applied linguistics)

2011 – 2012

Assoc. Prof. Dr. Tomas Knapen – UvA of Amsterdam

### *Student assistant*

Assisting in studies relating to visual perception, multistable  
perception, sensory & motor adaptation, eye movements.

2010 – 2011

Assoc. Prof. Dr. Tomas Knapen – UvA of Amsterdam

### *Internship*

Is the speed of visual adaptation timescale dependent? A  
tilt adaptation study.

## EDUCATION

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2019 **Doctor of Philosophy**

Linguistics

Toulouse University II, France

2013 **Master of Science**

Brain and Cognition

University of Amsterdam, Netherlands

2010 **Bachelor of Science**

Psychonomics

University of Amsterdam, Netherlands

## COMPUTER SKILLS

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ADVANCED Python, Matlab, R,  $\LaTeX$ , Praat

LEARNING JavaScript, jQuery, CSS, Unix

Presentation, Experiment Builder

## LANGUAGE SKILLS

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FLUENT Dutch, English

ADVANCED French

BEGINNING German, Spanish, Italian

## WORKSHOPS

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**Brainhack Donostia** (2019) BCBL, Bilbao, Spain.

**Bridging Attention and Prediction** (2018)  
Barcelona, Spain..

**Aix Summer School on Prosody** (2016) Lab-  
oratoire Parole et Langage, Aix-en-Provence,  
France.

**Common Prosody Platform Workshop** (2016)  
Boston University, USA.

**EBO-Entrainment of Brain Oscillations** (2015)  
Delmenhort, German.

**19th EEGLAB Workshop** (2015) Aspet, France.

**fMRI and anatomy** (2015) Lyon, France.

## DISSERTATION

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**te Rietmolen, N.** (2019).

Neural signature of metrical stress processing in French.  
Under supervision of Dr. Corine Astésano and CNRS. Dr. Simon Thorpe at Octogone Lordat and CerCo in Toulouse (awarded the ISCA Dissertation award from the Francophone Association of Speech Communication))

## CONFERENCE TALK

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**te Rietmolen, N.** (2020).

Invited speaker: Neural signature of metrical stress processing in French.  
Conference speaker at *JEP 2020*.

**te Rietmolen, N.**, El Yagoubi, R. Ghio, A., & Astésano, C. (2017).

The phonological status of the French initial accent and its role in semantic processing: an Event-Related Potentials study.  
Conference talk at *Interspeech 2017*, Stockholm, Sweden.

## POSTER PRESENTATION

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**te Rietmolen, N.**, & Astésano, C. (2018).

EEG entrainment to the prosodic structure in spoken language.  
Poster session presented at the *Bridging Attention and Prediction 2018*, Barcelona, Spain.

**te Rietmolen, N.**, & Astésano, C. (2016).

EEG investigation of prosodic cues processing in French.  
Poster session presented at the *AMLaP 2016* conference, Bilbao, Spain: 70.

**te Rietmolen, N.**, & Astésano, C. (2016).

EEG entrainment to the prosodic structure in spoken language.  
Poster session presented at the *AMLaP 2016* conference, Bilbao, Spain: 71.

**te Rietmolen, N.**, El Yagoubi, R., Espesser, R., Magnen, C., & Astésano, C. (2016).

Investigating the phonological status of the Initial Accent in French: an Event-Related Potentials study.  
Poster session presented at *Speech Prosody 2016*: Boston, USA.

**te Rietmolen, N.**, & Astésano, C., El Yagoubi, R., Thorpe, S. & Kopke, B. (2016).

Project NeuroPros : EEG investigation of prosodic cues in French.  
Poster session presented at the *Nijmegen Lectures 2016*, Nijmegen, The Netherlands.

## CONFERENCE PAPER

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**te Rietmolen, N.**, El Yagoubi, R. Ghio, A., & Astésano, C. (2017). The phonological status of the French initial accent and its role in semantic processing: an Event-Related Potentials study, *Interspeech 2017*, Stockholm: 2436 – 2440.

**te Rietmolen, N.**, El Yagoubi, R., Espesser, R., Magnen, C., & Astésano, C. (2016). Investigating the phonological status of the Initial Accent in French: an Event-Related Potentials study. *Proc. Speech Prosody 2016*: 1181 – 1185.

## SUBMITTED OR IN PREP

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**te Rietmolen, N.**, El Yagoubi, R., & Astésano, C. (*under review*). MMN-study showing pre-lexical sensitivity to both primary Final Accent and secondary Initial Accent in French.

**te Rietmolen, N.**, El Yagoubi, R., & Astésano, C. (*under review*). Interplay between metrical and semantic processing in French: an N400 study.

**te Rietmolen, N.**, El Yagoubi, R., Espesser, R., & Astésano, C. (*submitted*). ERP investigation of the roles for the French Initial and Final Accent during word recognition.

**te Rietmolen, N.**, El Yagoubi, R., Espesser, R., & Astésano, C. (*in prep*). Do French listeners process metrical stress? - ERP evidence for the case of Initial Accent in French.

**te Rietmolen, N.** & Astésano, C. (*in prep*) Prosodic cues and speech rhythm as attentional guides to speech processing.

## REFERENCES

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**Dr. HDR Corine Astésano**

POSITION Maitre de Conference HDR  
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