

Fleur L. Bouwer-Odijk



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Profile

Fascinated by the human brain and human behavior ❖ Passionate about music ❖ Determined and driven
❖ Solid organizational skills ❖ Analytically very strong ❖ Motivated to make knowledge accessible and applicable in society

Professional experience

2011- **PhD candidate & Guest researcher in Music Cognition**

now

University of Amsterdam | Faculty of Humanities

Institute for Logic, Language and Computation | Amsterdam Brain and Cognition

My research interests cover a broad range of topics related to the **perception of music** in general and **rhythm, beat and meter** in particular. Using **behavioral** methods, **EEG** and **fMRI**, I examine how the brain detects a beat in music. I am particularly interested in the roles of **attention** and **prediction** in the perception of music.

Skills and activities:

- In my research, I am responsible for **experimental design, programming** of data acquisition applications, **organization** of the lab and testing of participants, **data analysis** and **reporting**, both in **written publications** and **oral presentations**.
- In 2013 I initiated and organized weekly labmeetings for the Music Cognition Group, to **improve team spirit** and **encourage collaborations**.
- From 2011 to 2013 I **organized** a monthly seminar about computational and cognitive musicology for researchers ranging from musicologists to computer scientists.
- In 2015, I **organized** the conference diner and social event for **80 people** during the Rhythm Production and Perception Workshop (RPPW15) in Amsterdam.

Research visits, summer schools, awards:

- In the fall of 2013 and the summer of 2014 I visited the **Brain and Mind Institute** at **Western University** in London (ON, Canada) to work on an fMRI project about the relationship between **attention** and beat perception supervised by Dr. Jessica Grahn.
- In June 2015, I participated in the **predictive coding** summer school “The Predictive Brain”.
- In 2014, I received the Amsterdam Brain and Cognition **Best Research Pitch** award.

Science dissemination:

- I frequently appear in **public lectures** about music and the brain, including the Paradiso lectures, “Night of Art and Knowledge” and Holland Festival Young.
- On a regular basis, I am asked to talk about music and the brain in the **media**, both on television (RTL-EditieNL; Pavlov tv) and radio (Cappuccino; Hoe?Zo!/De kennis van nu; Nooit Meer Slapen, BNR Nieuwsradio).
- In a well-received lecture recital that I performed more than 20 times, I combined a short **interactive presentation** about music and the brain with a performance as a clarinetist.

Teaching:

- In 2014-2015, I **supervised three master students** (two students in the Research Master Brain & Cognitive Science, one master student from the Royal Conservatory The Hague).
- In 2014, I was responsible for **organizing and teaching the master course Music & Cognition (in English)** as part of the Research Master Brain & Cognitive Science. The course received 8 out of 10 points on the evaluation. As a lecturer, I was **evaluated with 8.4 out of 10 points**.
- In 2013 I was responsible for **designing, organizing and teaching a bachelor course** in music cognition for **64 students**, as part of the Bachelor of Musicology. I taught in **English**.
- I am regularly asked to teach **guest lectures**.
- In 2015, I presented a workshop on **EEG analysis in Matlab** to the Music Cognition Group.
- I successfully completed a course about **teaching methods** in 2013.

2000-
2015

Performing and teaching clarinetist

Self-employed

While working as a freelance clarinetist I obtained valuable experience in **organizing concerts, maintaining contacts** in the music industry, setting up my own **administration** as a self-employed musician, and **organizing finances** and logistics for **travelling abroad**.

Performances (selection):

- Solo and chamber music performances at venues including the Concertgebouw, Amsterdam, and Vredenburg, Utrecht and tours to a.o. Chicago (2002), Tokio (2003) and within Europe.
- Substitute clarinetist in several orchestras and ensembles, including The Netherlands Wind Ensemble (NBE), Residentie Orkest, Sinfonietta Amsterdam and Het Gelders Orkest.
- Member of the European Union Youth Orchestra from 2006-2010, meeting and working with musicians from all EU member states.
- Performer for Stichting Muziek in Huis (SMIH) in 2010 and 2011, playing concerts in nursing homes for healthy and psychogeriatric audiences.

Awards (selection):

- Winner of auditions for the concert series "het Debuut", season 2007/2008.
- Represented The Netherlands in the Eurovision Competition for Young Musicians 2002.
- Young Musician of the Year 2001 in The Netherlands.

Teaching:

- Between 2004 and 2011 I was a substitute teacher at the Amsterdam music school and I taught clarinet students ranging from 15 till 50 years old privately.

Education

2011-
2016

PhD in Music Cognition

University of Amsterdam

- Dissertation: "What do we need to hear a beat? The influence of attention, musical abilities, and accents on the perception of metrical rhythm".
- Supervisor: Prof. Dr. Henkjan Honing; Co-supervisor: Dr. Jessica Grahn (Western University, London, ON, Canada).
- Defense of my dissertation took place on June 8th, 2016.

2015

Coursework in Clinical Neuropsychology

University of Amsterdam

- At the end of my PhD, I followed several courses in **clinical neuropsychology**, both to gain knowledge for **research** purposes and to work towards Dutch **clinical qualifications**.
- 24 ECT; courses in psychopathology, psychological interventions, diagnostics and neuro-rehabilitation. Average grade: 8.8/10 (top of the class).

- 2010-2011 **MSc in Psychology**
University of Amsterdam
- Thesis: "The gender congruency effect in bilingual language production: the influence of sentence context" (graded 9/10).
 - Specialization in Brain & Cognition.
 - Graduation **with distinction** (top 10%).
- 2002-2010 **BSc in Psychology**
University of Amsterdam
- Thesis: "Processing musical structure: a comparison with syntactic processing in language" (graded 8.5/10).
 - Specialization in Brain & Cognition.
 - Graduation **with distinction** (top 10%).
- 2006-2009 **Master of Music**
Amsterdam Conservatory
- Main subject: **clarinet**; main teacher: Antony Pay.
 - Graduation **with distinction** (grade 9/10).
 - Recipient of Prince Bernhard Culture foundation **scholarships** in 2006 and 2007.
- 2002-2006 **Bachelor of Music**
Amsterdam Conservatory
- Main subject: **clarinet**; main teacher: Herman Braune.
 - Graduation **with distinction** (grade 9.5/10).
- 2000-2002 **Young talent department**
Amsterdam Conservatory
- Main subject: **clarinet**; main teacher: Herman Braune.
- 1996-2002 **High School**
Stedelijk Gymnasium Haarlem
- Technical/science profile; average grade 9.1/10

Skills

Computer skills:

- Proficiency in MS Office, Keynote, Adobe Illustrator
- Programming skills in Matlab (including EEGLAB and SPM toolboxes), Presentation, SPSS Syntax

Research skills:

- EEG: Experimental design, analysis of event-related potentials (ERPs) and time-frequency decomposition through wavelet convolution
- fMRI: Experimental design, analysis of activation data and psychophysiological interactions (PPI)

Languages:

- Dutch: native language
- English: fluent
- German: good
- French: basic

Leisure

- Amateur pianist
- Speed skating and cycling enthusiast

Appendix: Publications and talks

Journal Articles

Submitted and in preparation

- Roncaglia-Denissen, M.P., **Bouwer, F.L.**, & Honing, H. (under review). Language and music syntax: simultaneous processing of long-distance dependencies.
- **Bouwer, F.L.**, Burgoyne, J.A., Odijk, D., Honing, H., & Grahn, J.A. (submitted). What makes a rhythm complex? The influence of musical training and accent type on beat perception.
- **Bouwer, F.L.**, Wild, C.J., Honing, H., & Grahn, J.A. (in prep). Attentional load influences connectivity between motor areas during beat perception.

2016

- **Bouwer, F.L.**, Werner, C. M., Knetemann, M., & Honing, H. (2016). Disentangling beat perception from sequential learning and examining the influence of attention and musical abilities on ERP responses to rhythm. *Neuropsychologia*, 85(May), 80-90. doi: 10.1016/j.neuropsychologia.2016.02.018

2015

- **Bouwer, F.L.**, & Honing, H. (2015). Temporal attending and prediction influence the perception of metrical rhythm: evidence from reaction times and ERPs. *Frontiers in Psychology*, 6, 1094. doi: 10.3389/fpsyg.2015.01094

2014

- **Bouwer, F.L.**, van Zuijlen, T.L. & Honing, H. (2014). Beat processing is pre-attentive for metrically simple rhythms with clear accents: An ERP study. *PLoS One*, 9(5), e97467. doi: 10.1371/journal.pone.0097467

Book chapters

- Honing, H., **Bouwer, F.L.**, & Háden, G.P. (2014). Perceiving temporal regularity in music: The role of auditory event-related potentials (ERPs) in probing beat perception. In H. Merchant & V. de Lafuente (Eds.), *Neurobiology of Interval Timing* (pp. 305–323). New York: Springer. doi:10.1007/978-1-4939-1782-2_16

Conference proceedings (selection)

- **Bouwer, F.L.**, & Honing, H. (2013). How much beat do you need? An EEG study on the effects of attention on beat perception using only temporal accents. *Frontiers in Human Neuroscience*. doi: 10.3389/conf.fnhum.2013.212.00030
- **Bouwer, F.L.**, & Honing, H. (2012). Rhythmic regularity revisited: Is beat induction indeed pre-attentive? In *International Conference on Music Perception and Cognition* (pp. 122-127). Thessaloniki: Aristotle University of Thessaloniki.

Academic talks (selection)

- 15th International Rhythm Production and Perception Workshop (July 2015, Amsterdam)
- Poster at the Neurosciences and Music V (May 2014, Dijon)
- Invited talk at BRAMS (November 2013, Montreal)
- 14th International Rhythm Production and Perception Workshop (September 2013, Birmingham)
- Biennial meeting of the Society for Music Perception and Cognition (Summer 2013, Toronto)
- 12th International Conference on Music Perception and Cognition (Summer 2012, Thessaloniki)
- Perspectives on Rhythm and Timing Workshop (Summer 2012, Glasgow)
- 13th International Rhythm Production and Perception Workshop (Summer 2011, Leipzig)