



Kristijan Armeni

COGNITIVE NEUROSCIENTIST

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Research interests

- Understanding the computational relevance of **neuronal dynamics** in behavior as measured with (M/EEG).
- Developing biologically-constrained and biologically-plausible **models of language processing**.
- Explaining the role of **memory architectures** for the human capacity to understand natural language.

Education

PhD Candidate in Cognitive Neuroscience

DONDERS GRADUATE SCHOOL FOR COGNITIVE NEUROSCIENCE, RADBOUD UNIVERSITY

2016-present

Nijmegen, the Netherlands

- promotor: Peter Hagoort, co-promotor: Jan-Mathijs Schoffelen
- topic: The role of neural synchrony in naturalistic language comprehension

MSc Cognitive Neuroscience

DONDERS GRADUATE SCHOOL FOR COGNITIVE NEUROSCIENCE, RADBOUD UNIVERSITY

2014-2016

Nijmegen, the Netherlands

- thesis title: Using probabilistic language models for tracking modulations in MEG spectral power during auditory narrative comprehension

MA Translation Studies

FACULTY OF ARTS, UNIVERSITY OF LJUBLJANA

2011-2014

Ljubljana, Slovenia

- thesis title: Eye-tracking measures as indicators of readability in machine-translated texts

Peer-reviewed publications

1. Armeni, K, RM Willems, A van den Bosch, and JM Schoffelen (Sept. 2019). Frequency-specific brain dynamics related to prediction during language comprehension. *NeuroImage* **198**, 283–295.
2. Armeni, K, RM Willems, and SL Frank (Dec. 2017). Probabilistic language models in cognitive neuroscience: Promises and pitfalls. *Neuroscience & Biobehavioral Reviews* **83**, 579–588.

Presentations

Bernstein Conference for Computational Neuroscience

September, 2019

POSTER

Berlin, Germany

- poster title: Neuronal memory for processing sequences with non-adjacent dependencies (<https://doi.org/10.12751/nncn.bc2019.0032>)
- we showed that the ability to decode behavior on a continuous working memory task from a spiking neural network depends on membrane potential timescales

13th International Conference for Cognitive Neuroscience, ICON

August, 2017

POSTER

Amsterdam, the Netherlands

- poster title: Frequency-specific brain dynamics related to prediction during language comprehension.

Talks and workshops

- Collaborative version control with Git and GitHub**, workshop
Nov-2019 Donders Institute, <https://doi.org/10.17605/OSF.IO/ZVKYX>
2-hour hands-on workshop on the basics of version control with Git and collaborative working with GitHub
- Open Science Community Nijmegen launch event**, talk
Oct-2019 Donders Institute, <https://openscience-nijmegen.nl/oscn-launch/>
talk on the goals of the open science community
- Advanced MEG/EEG toolkit**, workshop
Apr-2018 Donders Institute, <http://www.fieldtriptoolbox.org/workshop/toolkit2018/>
tutor at the hands-on sessions
- Predictive processing and computational models of cognition**, invited talk
Mar-2017 Institute for Logic, Language and Computation, University of Amsterdam,
title: Probabilistic language models in cognitive neuroscience: a useful toolkit or a test of PP?

Awards and honors

- 2014 **Prešern Award for MA thesis**, Faculty of Arts, University of Ljubljana
highest faculty award for outstanding thesis work

Academic service

National Open Science Festival

PROGRAMME COMMITTEE MEMBER

- <https://opensciencefestival.nl>

2020

Wageningen, The Netherlands

Open Science Community Nijmegen

CO-FOUNDER, CO-ORGANIZER

- a community of scholars for accelerating the adoption of open science practices on Nijmegen campus
- www.openscience-nijmegen.nl

2018-present

Nijmegen, The Netherlands

Foundations of Cognition Series

CO-ORGANIZER

- monthly interdisciplinary lectures on foundational topics spanning cognitive neuroscience, AI, psychology and philosophy
- past and upcoming program: www.ru.nl/fcs

2016-present

Nijmegen, the Netherlands

Writing

Utešeni um (book translation of: The Embodied Mind)

TRANSLATOR

- the first Slovene translation (co-translator and editor: Sebastjan Vörös) of the cognitive science classic *The Embodied Mind* by Varela, Thompson & Rosch upon its anniversary edition by the MIT press
- ISBN: 978-961-260-111-9

2016-2017

Krtina Publishing House

Other professional experience

Kristijan Armeni Translations, s.p. (sole ownership)

TRANSLATOR

- translation business, translation of medical texts and research articles from medical professionals
- example: *Medical Ethics in Clinical Practice* by Zwitter Matjaž. <https://doi.org/10.1007/978-3-030-00719-5>

2016-2018

Ljubljana, Slovenia