

# Dr. Katerina Danae Kandylaki

---

## Curriculum Vitae

### Profile information

Full name **Kandylaki, Aikaterini Danai.**  
Date of birth **12. August 1986, Athens.**  
ORCID [orcid.org/0000-0001-7831-4913](https://orcid.org/0000-0001-7831-4913).

### Current position

Apr 2018 – present **Marie Skłodowska-Curie research fellow**, Department of Neuropsychology and Psychopharmacology, Maastricht University, Maastricht, The Netherlands.

### Education

2012 – 2016 **PhD in Neurobiology of Language (summa cum laude)**, Neurolinguistics lab and Clinic for Psychiatry and Psychotherapy, Philipps-University Marburg.  
2009 – 2011 **Master of Science in Language, Science and Technology**, Specialization in Computational Psycholinguistics, Saarland University.  
2004 – 2009 **Diploma in Greek Philology**, Specialization in Linguistics, University of Athens.

#### Academic and research training

2013 – 2015 **Certificate "Development and Management of Research Projects"**, Marburg University Research Academy (MARA), Marburg, Germany.  
Jun 24 – 27, 2014 **Toolkit of Cognitive Neuroscience**, Transcranial Brain Stimulation, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, the Netherlands.

#### Awards

Apr 2018 – Mar 2020 **Marie Skłodowska-Curie individual fellowship award**, European Commission.  
Apr 2012 – Mar 2015 **PhD scholarship award**, Excellence Initiative (ExInit), Funding for innovative and interdisciplinary PhD projects, Philipps-University Marburg.  
Oct 2006 – Mar 2007 **Erasmus placement award**, University of Athens.

### Research

#### Research experience

Feb 2016 – Jan 2018 **Research associate**, worked on a Wellcome Trust Seed Grant at the Department of Bioengineering, Imperial College London, London, United Kingdom.  
Apr 2015 – Dec 2015 **Research assistant**, worked on LOEWE Research Focus: Exploring Fundamental Linguistic Categories, Philipps-University Marburg, Marburg, Germany.  
Oct 28 – Nov 15, 2015 **Visiting researcher**, Cognitive Neuroscience Laboratory, University of South Australia, Adelaide, Australia.

- Nov 21 – **Visiting researcher**, Cognitive Neuroscience Laboratory, University of South Australia,
- Dec 14, 2014 Adelaide, Australia.
- Jul 2010 – **Research assistant**, designed and ran eye-tracking experiments in the psycholinguistics
- Sep 2010 lab, Saarland University.
- Nov 2009 – **Research assistant**, designed and ran behavioural experiments in the SALSA Project,
- Dec 2010 Saarland University.

### Scientific publishing experience

- Jun 2017 – **Guest editor**, for special issue "From story comprehension to the neurobiology of language"
- Mar 2019 in the journal *Language, Cognition and Neuroscience* together with Prof. Ina Bornkessel-Schlesewsky, invited by the editor in chief, Prof. Lorraine Tyler.
- Jan 2019 – **Regular reviewer**, for new open access journal "Neurobiology of Language", Journal
- present launched in 2019 by the Society for the Neurobiology of Language.
- Jan 2015 – **Reviewer**, for scientific journals *Neuroimage, Cortex, Brain and Language, Scientific*
- present *reports*, and for the book: Empirical Perspectives on Anaphora Resolution, published by de Gruyter.

### Methods skills

- Human brain **Electroencephalography (EEG)**, Magnetic Resonance Imaging (structural and functional),
- Transcranial Magnetic Stimulation (TMS), Eye-tracking.
- Typography **LaTeX**, LyX, Markdown, Office.
- Programming **Python**, Matlab, Presentation, Experiment Builder, OpenSesame.
- Analysis **MNE python**, R statistical software, Statistical Parametric Mapping (SPM).

### Industry

- Apr 2018 – **Scientific Researcher**, advising on the research and development of the system and
- Jul 2018 processes in the company *WinningMinds.ai Technologies Limited*, Skills used: critical
- and combinatorial thinking of advances in the cognitive neuroscience of language.

### Teaching experience

- Oct 2018 – **Mentor**, Skills II: Observing Others and Yourself, Bachelors in Psychology, Maastricht
- Jul 2019 University.
- Oct 2018 – **Tutor**, Skills IV: Academic Writing, Bachelors in Psychology, Maastricht University.
- Jul 2019
- 3–8 Jun 2018 **Course instructor**, Summer school: Experimental methods in psycholinguistics, University
- of Athens.
- Oct 2015 – **Course instructor**, Language and Music in the Brain, Bachelors in Language and Com-
- Mar 2016 munication, Philipps-University Marburg.
- May 2015 **Workshop coordinator**, Language and Music in the Brain, Student Conference in Lin-
- guistics, Philipps-University Marburg.
- Oct 2013 – **Course instructor**, Using Eye-tracking to study Language Processing, Bachelors in
- Mar 2014 Language and Communication, Philipps-University Marburg.
- 2012–2015 **Mentor**, ProMotivation programme, Philipps-University Marburg.
- Jan – Feb **Tutor**, Cognitive Linguistics, Masters in Language Technology, University of Athens.
- 2009

### Student supervision

- Jan 2019 – **Supervising two MSc students as first supervisor**, Research Masters: Neuropsychology,
- Aug 2019 Maastricht University.

- Jan 2017 – **Supervising one MSc student as second supervisor**, Masters: Biomedical Engineering,  
Sep 2017 Imperial College London.
- Apr 2015 – **Supervising one MSc student as second supervisor**, Masters: Language and Communi-  
Jul 2015 cation, Philipps-University Marburg.

## Research output

### Peer-reviewed journal publications

- Weissbart, H., **Kandylaki, K. D.**, Reichenbach, T. (2019). Cortical Tracking of Surprisal during Continuous Speech Comprehension. *Journal of Cognitive Neuroscience*. doi: 10.1162/jocn\_a\_01467.
- Kandylaki, K. D.**, & Bornkessel-Schlesewsky, I. (Eds.) (2019). From story comprehension to the neurobiology of language. [Special section] *Language, Cognition and Neuroscience*, 34(4), 405–410, doi: 10.1080/23273798.2019.1584679.
- Kandylaki, K. D.**, Henrich, K., Nagels, A., Kircher, T., Domahs, U., Schlesewsky, M., Bornkessel-Schlesewsky, I., & Wiese, R. (2017). Where is the beat? The neural correlates of lexical stress and rhythmical well-formedness in auditory story comprehension. *Journal of Cognitive Neuroscience*, 29(7), 1119–1131. doi: 10.1162/jocn\_a\_01122.
- Kandylaki, K. D.**, Nagels, A., Tune, S., Kircher, T., Wiese, R., Schlesewsky, M., & Bornkessel-Schlesewsky, I. (2016). Predicting “when” in discourse engages the human dorsal auditory stream: An fMRI study using naturalistic stories. *Journal of Neuroscience*, 36(48), 12180–12191. doi: 10.1523/JNEUROSCI.4100-15.2016
- Kandylaki, K. D.**, Nagels, A., Tune, S., Wiese, R., Bornkessel-Schlesewsky, I., & Kircher, T. (2015). Processing of false belief passages during natural story comprehension: An fMRI study. *Human brain mapping*, 36(11), 4231–4246. doi:10.1002/hbm.22907.
- Kandylaki, K.**, Bohn, K., Nagels, A., Kircher, T., Domahs, U., & Wiese, R. (2014, September). Processing linguistic rhythm in natural stories: an fMRI study. In *Cognitive Processing* (Vol. 15, No. 1, pp. S114–S115). Tiergartenstrasse 17, D-69121 Heidelberg, Germany: Springer Heidelberg.

### Manuscripts

- Kandylaki, K. D.**, Beaman, P., Scott, S. K. (in preparation). Sharing cognitive neuroscience data from different experimental paradigms: a constructive review.

### Invited talks

- Kandylaki, K. D.** (2019, October). *Rhythm: from music to speech to the brain*. Music and Language Meeting, Athens, Greece.
- Kandylaki, K. D.** (2018, December). *How to “go natural” in the neurobiology of language*. Neurolinguistics Colloquium, Philipps-University Marburg, Germany.
- Kandylaki, K. D.** (2017, December) (In Greek) *Exploring the neurobiology of language with naturalistic experiments*. Psycho- and Neurolinguistics lab of Professor Spyridoula Varlokosta, University of Athens, Greece.
- Kandylaki, K. D.** (2015, June). *Testing natural language use: insights from naturalistic experimental paradigms*. Research group of Professor Athanassios Protopapas, University of Athens, Greece.

### Conference talks

- Kandylaki, K. D.** (2019, October). *Why and how to employ ecologically valid tests in the neurobiology of language*. 28th Meeting of the Hellenic Society for Neuroscience (HSfN), Heraklion Crete.
- Kandylaki, K. D.** (2017, June). *The neural correlates of linguistic rhythm*. International summer school: Music, language and cognition, Lake Como School of Advances Studies, Lake Como.
- Kandylaki, K. D.** (2015, June). *Testing natural language use: insights from naturalistic experimental*

*paradigms*. Conference for experimental linguistics (ExLing), Athens.

**Kandylaki, K. D.**, Kennington, C. R., Niefind, F., Rebmann, A., Shore, T., Pyykkönen, P. (2010, November). *Verb Aspect and Causality in Situation Models*. 48th Studentische Tagung Sprachwissenschaft (StuTS, Student conference for Linguistics), Potsdam.

### Conference posters

**Kandylaki, K. D.**, Lykartsis, A., Lampe, K., Kotz, S. A. (2019, August). *Modelling EEG responses with the audio signal: a methodological investigation*. Annual Meeting of the Society for the Neurobiology of Language, Helsinki.

Weissbart, H., **Kandylaki, K. D.**, Reichenbach, T. (2018, August). *Cortical Tracking of Predictive Coding Features in Continuous Speech*. Annual Meeting of the Society for the Neurobiology of Language, Montreal.

Weissbart, H., **Kandylaki, K. D.**, Reichenbach, T. (2018, June). *Cortical Response to Word Surprise and Prediction Entropy during Speech Comprehension*. 1st international Workshop on Predictive Processing, San Sebastian.

Weissbart, H., **Kandylaki, K. D.**, Reichenbach, T. (2017, November). *Electrophysiological correlates of statistical features of word sequences in natural spoken language*. Annual Meeting of the Society for the Neurobiology of Language, Baltimore.

Weissbart, H., **Kandylaki, K. D.**, Reichenbach, T. (2017, September). *Electrophysiological correlates of word sequence features in natural spoken language*. BSA Basic Auditory Science Meeting, Nottingham.

Brillmayer, I., **Kandylaki, K. D.**, Bornkessel-Schlesewsky, I., Schlewsky, M. (2016, August). *Predicting discourse topics: Evidence for the privileged role of the syntactic subject during the comprehension of naturalistic auditory stories using event-related potentials*. Annual Meeting of the Society for the Neurobiology of Language, London.

**Kandylaki, K. D.**, Henrich, K., Nagels, A., Kircher, T., Domahs, U., Bornkessel-Schlesewsky, I., & Wiese, R. (2015, October). *The neural correlates of linguistic rhythm during natural story listening*. Annual Meeting of the Society for the Neurobiology of Language, Chicago.

**Kandylaki, K. D.**, Sommer, J., Kircher, T., Wiese, R., Bornkessel-Schlesewsky, I. (2015, October) *Pupil dilation in natural story listening during fMRI*. Annual Meeting of the Society for the Neurobiology of Language, Chicago.

**Kandylaki, K. D.**, Henrich, K., Nagels, A., Kircher, T., Domahs, U., Bornkessel-Schlesewsky, I., & Wiese, R. (2015, September). *Where is the beat? An fMRI study on rhythmic (ir)regularities in natural stories*. Biannual meeting of the German Phonetics and Phonology Society, Marburg.

**Kandylaki, K. D.**, Nagels, A., Kircher, T., Wiese, R., Schlewsky, M., & Bornkessel-Schlesewsky, I. (2014, August). *Discourse predictions are processed in the dorsal auditory stream: an fMRI study using naturalistic stories*. Annual Meeting of the Society for the Neurobiology of Language, Amsterdam.

Rabs, E., Alday, P., **Kandylaki, K. D.**, Schlewsky, M., Roehm, D., Bornkessel-Schlesewsky, I. (2014, August). *The electrophysiology of long-term vs. short-term predictions: the strength of prediction is cumulative*. Annual Meeting of the Society for the Neurobiology of Language, Amsterdam.

**Kandylaki, K. D.**, Nagels, A., Wiese, R., Bornkessel-Schlesewsky, I., & Kircher, T. (2014, June). *Processing theory of mind in natural language contexts: an efmRI study*. Annual Meeting of the Organization for Human Brain Mapping, Hamburg.

### Outreach

#### Science communication to the general public

Sep 2018 – **City Coordinator, Pint of Science Maastricht**, Science communication initiative, bringing science out to the pubs and bars of Maastricht to bridge the gap from the scientist to the public.  
Sep 2019

May 2019 **Speaker, Pint of Science Maastricht**, *How is human communication similar to and different from bird song?*, Event: Of beastly brains and brainy beasts.

### Engagement for children

Oct 2018 – **Invited scientist at schools**, organised by the Marketing and Communications Department of Maastricht University, Workshop title: **Asking questions to the brain. (Vragen stellen aan het brein)**. For ages 15-16 years.

Oct 2018 – **Volunteering translator**, *Frontiers for Young Minds*, open access scientific journal for children, translated the paper *Emotions and the Brain – Or How to Master “The Force”* into Greek together with collaborator Katerina Drakoulaki.

## Administration

### Institutional responsibility

Feb 2017 – **Post doc representative**, Department of Bioengineering, Imperial College London.

Jan 2018 Organising the annual **Post doc Symposium** in the Department of Bioengineering, **Science Fridays** (fortnightly departmental event on science topics), and other post doc events.

### Organisation of scientific meetings

Feb 2017 – **Imperial Neuroscience Research Day (INeRD)**, A half-day event aimed at connecting early-career neuroscientists, Imperial College London.

Sep 2017

Jan 2015 – **Studentische Tagung Sprachwissenschaft (StuTS)**, Student Conference in Linguistics, Philipps-University Marburg.

May 2015

## Languages

English **Full professional proficiency**

*TOEFL Internet-based test, Score 105/120 (2008)*

German **Full professional proficiency**

*(Goethe) Mittelstufe Pruefung (2002)*

Greek **Native**

Romanian **Native**

Dutch **Basic**

*A2 level*

French **Basic**

*A2 level*

## Non-scientific activity - Dance

Apr 2017 – **Certified teacher for Margaret Morris Movement (MMM)**, teaching dance classes. present

Apr – Dec 2015 **Co-trainer for dance class "Margaret Morris Movement: dancing body-workout"**, Philipps-University Marburg.

### Non-scientific publication

**Kandylaki, K. D.** (2019). *The brain and Margaret's definition of creativity*. Annual journal of the international association for Margaret Morris Movement, <https://www.margaretmorrismovement.com/node/181>.