

Dr. Katerina Danae Kandylaki

Curriculum Vitae

Personal information

Full name **Kandylaki, Aikaterini Danai.**
Date of birth **12. August 1986, Athens.**
ORCID ID **orcid.org/0000-0001-7831-4913.**
Scopus ID **56830589000.**

Current position

Apr 2018 – present **Marie Sklodowska-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.
Main supervisor: Prof. Ina Bornkessel-Schlesewsky, Co-supervisors: Prof. Tilo Kircher, Prof. Richard Wiese.
2009 – 2011 **Master of Science in Language, Science and Technology**, Specialization in Computational Psycholinguistics, Saarland University.
Master thesis on Psycholinguistics, supervised by Prof. Matthew Crocker, Dr. Pirta Pyykkönen-Klauck.
2004 – 2009 **Diploma in Greek Philology**, Specialization in Linguistics, University of Athens.
Thesis on Computational Linguistics, supervised by Prof. George Markopoulos.

Academic and research training

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

Awards

April 2018 – March 2020 **Marie Sklodowska-Curie individual fellowship award**, European Commission.
April 2012 – March 2015 **PhD scholarship award**, Excellence Initiative (ExInIt), Funding for innovative and interdisciplinary PhD projects, Philipps-University Marburg.
Oct 2006 – March 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 the PhD thesis at the Institute for Germanic Linguistics, LOEWE Research Focus: Exploring Fundamental Linguistic Categories, Philipps-University Marburg.
- Oct 28 – Nov 15, 2015 **Visiting researcher**, Cognitive Neuroscience Laboratory, University of South Australia, Adelaide, Australia.
- Nov 21 – Dec 14, 2014 **Visiting researcher**, Cognitive Neuroscience Laboratory, University of South Australia, Adelaide, Australia.
- Jul 2010 – Sep 2010 **Research assistant**, designed and ran eye-tracking experiments in the psycholinguistics lab, Saarland University.
- Nov 2009 – Dec 2010 **Research assistant**, designed and ran behavioural experiments in the SALSA Project, Saarland University.

Methods skills

- Methods **MRI (structural and functional), EEG, TMS, Eye-tracking**, Time resolved regression analysis.
- Typography **LaTeX, LyX, Markdown, Office**.
- Programming **Python**, R statistical software, Matlab, Presentation, Experiment Builder, OpenSesame.
- Data analysis **MNE python**, Statistical Parametric Mapping (SPM), Brain Voyager, Data Viewer.
Linear mixed effects modeling

Scientific publishing experience

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

Teaching

Teaching experience

- Oct 2018 – Jul 2019 **Mentor**, Course: Skills II: Observing Others and Yourself, Bachelors in Psychology, Maastricht University.
- Oct 2018 – Jul 2019 **Tutor**, Course: Skills IV: Academic Writing, Bachelors in Psychology, Maastricht University.
- 3–8 Jun 2018 **Course coordinator**, Taught the course: Introduction to eye-tracking, Summer school: Experimental methods in psycholinguistics, Department of Linguistics, University of Athens
- Oct 2015 – Mar 2016 **Course coordinator**, Seminar: Language and Music in the Brain, Bachelors in Language and Communication, Philipps-University Marburg.
- May 2015 **Workshop coordinator**, Language and Music in the Brain, Student Conference in Linguistics, Philipps-University Marburg.
- Oct 2013 – Mar 2014 **Course coordinator**, Seminar: Using Eye-tracking to study Language Processing, Bachelors in Language and Communication, Philipps-University Marburg.

- 2012–2015 **Mentor**, ProMotivation programme, Philipps-University Marburg.
Mentoring programme for female master students and graduates of the social studies and humanities.
- Jan 2009 – **Tutor**, Course: Cognitive Linguistics, Masters in Language Technology, University of Athens.
Feb 2009

Supervising experience

- Jan 2019 – **Supervising two MSc students as first supervisor**, Research Masters: Neuropsychology, Maastricht University.
Aug 2019
- Jan 2017 – **Supervising one MSc student as second supervisor**, Masters: Biomedical Engineering, Imperial College London.
Sep 2017
- Apr 2015 – **Supervising one MSc student as second supervisor**, Masters: Language and Communication, Philipps-University Marburg.
Jul 2015

Research dissemination

Journal publications

Kandylaki, K. D., & Bornkessel-Schlesewsky, I. (Eds.) (2019). From story comprehension to the neurobiology of language. [Special issue] *Language, Cognition and Neuroscience*, 34(4).

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

Weissbart, H., **Kandylaki, K. D.**, Reichenbach, T. (under revision). Cortical tracking of surprisal reveals neural correlates of predictive processing in the comprehension of continuous speech.

Kandylaki, K. D., Beaman, P., Scott, S. K. (invited submission). Sharing cognitive neuroscience data from different experimental paradigms: a constructive review.

Invited talks

Kandylaki, K. D. (26th February 2019) *Asking questions to the brain. (Vragen stellen aan het brein)* Interactive workshop at the local school of Maastricht, Porta Mosana. For ages 15–16 years.

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. (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

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., Schlesewsky, 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*. Bilingual meeting of the German Phonetics and Phonology Society, Marburg.

Kandylaki, K. D., Nagels, A., Kircher, T., Wiese, R., Schlesewsky, 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.**, Schlesewsky, 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.
- 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**, Marketing and Communications of Maastricht University, bringing science out to local schools to showcase research at UM and inspire pupils to study at the university.
- 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”* in Greek, together with Katerina Drakoulaki, into Greek.
- Feb 2019
- Mar 2019 – **Trainee, Native Scientist**, Non-profit organisation, bringing together scientist role models and migrant pupils to promote integrated training of science and language.

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	Excellent	<i>TOEFL Internet-based test, Score 105/120 (2008)</i>
German	Excellent	<i>(Goethe) Mittelstufe Pruefung (2002)</i>
Greek	Native	
Romanian	Native	
Dutch	Basic	<i>A2 level</i>
French	Basic	<i>A2 level</i>

Non-scientific activity – Dance

- Apr 2017 – **Certified teacher for Margaret Morris Movement (MMM)**, teaching dance classes.
- present
- Apr 2015 – **Co-trainer for dance class "Margaret Morris Movement: dancing body-workout"**, Philipps-University Marburg.
- Dec 2015

Non-scientific publication

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

Contact details of references

Professor Ina Bornkessel-Schlesewsky (PhD thesis supervisor)

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Professor Tilo Kircher (PhD thesis co-supervisor)

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Dr. Tobias Reichenbach (Employer Feb 2016 – Jan 2018)

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Dr. Katerina Danae Kandylaki