

## Kateřina Chládková

Post-doctoral researcher

with interests in speech sound acquisition & perception, category formation, laboratory phonology, phonetics, and cognitive science in general.

work address: Cognitive and Biological Psychology  
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### Career path

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- 03/2016 – to date Post-doctoral research fellow, Cognitive and Biological Psychology, University of Leipzig project “Piecing auditory cues together: How we learn to integrate cues in speech perception” (NWO Rubicon grant)
- 11/2014 – 03/2016 Parental leave  
Guest researcher at Amsterdam Center for Language and Communication  
University of Amsterdam
- 11/2013 – 11/2014 Post-doctoral research fellow, University of Amsterdam, Amsterdam Center for Language and Communication, Phonetic Sciences, in a project on speaker and accent normalization in vowel perception  
  
Designing, running and analysing behavioral, eye-tracking and ERP experiments with adults and infants. Training of student assistants.
- 09/2009 – 09/2013 PhD candidate, University of Amsterdam, Amsterdam Center for Language and Communication, investigating the perceptual basis of phonological features  
  
Psycholinguistic and neurolinguistic experiments with young and old adults: design, data collection, data analyses. Neural network modeling of speech sound learning, perception and production.  
  
(supervisor: prof. Paul Boersma, co-supervisors: dr. Paola Escudero, dr. Silke Hamann)
- 07/2008 – 05/2009 research assistant, Utrecht Institute of Linguistics, Utrecht University  
acoustic analysis of Dutch vowels
- 09/2005 – 06/2008 teaching and research assistant, phonetics & phonology  
Department of English and American studies, Palacký University Olomouc

### Education

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- 2009 – 2013 University of Amsterdam, Faculty of Humanities, PhD (defended on 7 March, 2014)
- 2008 – 2009 University of Amsterdam, Faculty of Humanities, MA in General Linguistics (cum laude)
- 2005 – 2008 Palacký University Olomouc, Philosophical faculty, BA in English and Dutch Philology (graduated cum laude)
- 2007 Utrecht University, Faculty of Humanities, Dutch Language and Literature (1 semester)
- 2003 – 2005 Palacký University Olomouc, Faculty of Science, Mathematics (3 semesters of a B.Sc. degree programme)

### Peer-reviewed journal articles

- Tuninetti, A., Chládková, K., Peter, V., Schiller, N.O., & Escudero, P. (2017). When speaker identity is unavoidable: Neural processing of speaker identity cues in natural speech. *Brain and Language*, 174: 42-49.
- Mulak, K., Bonn, C., Chládková, K., Aslin, R., & Escudero, P. (2017). Indexical and linguistic processing by 12-month-olds : discrimination of speaker, accent and vowel differences. *PLoS ONE* 12(5): e0176762. doi:10.1371/journal.pone.0176762
- Chládková, K., Podlipský, V.J., Chionidou, A. (2017). Perceptual adaptation of vowels generalizes across the phonology and doesn't require local context. *Journal of Experimental Psychology: Human Perception and Performance*, 43, 414-427.
- Buddhamas Kriengwatana, Josephine Terry, Kateřina Chládková, & Paola Escudero (2016). Speaker and accent variation are handled differently: Evidence in native and non-native listeners. *PLoS One*. 11(6): e0156870. doi:10.1371/journal.pone.0156870.
- Kateřina Chládková, Silke Hamann, Daniel Williams, & Sam Hellmuth (2016). F2 slope as a perceptual cue for the front-back contrast in Standard Southern British English. *Language and Speech*. Published online May 30, 2016, doi: 10.1177/0023830916650991.
- Kateřina Chládková, Paola Escudero & Silvia Lipski (2015). When “AA” is long but “A” is not short: speakers who distinguish short and long vowels in production do not necessarily encode a short-long contrast in their phonological lexicon. *Frontiers in Psychology*, 6:438.
- Kateřina Chládková, Paola Escudero & Silvia Lipski (2013). Pre-attentive sensitivity to vowel duration reveals native phonology and predicts learning of second-language sounds. *Brain and Language*, 126: 243-252.
- Paul Boersma & Kateřina Chládková (2013). Detecting categorical perception in continuous discrimination data. *Speech Communication*, 55: 33-39.
- Šárka Šimáčková, Václav Jonáš Podlipský & Kateřina Chládková (2012). Czech spoken in Bohemia and Moravia. *Journal of the International Phonetic Association*, 42:225-232.
- Kateřina Chládková & Paola Escudero (2012). Comparing vowel perception and production in Spanish and Portuguese: European versus Latin American dialects. *Journal of the Acoustical Society of America*, 131: EL119-EL125.
- Kateřina Chládková & Václav Jonáš Podlipský (2011). Native dialect matters: Perceptual assimilation of Dutch vowels by Czech listeners. *Journal of the Acoustical Society of America*, 130: EL186-EL192.
- Kateřina Chládková, Paola Escudero & Paul Boersma (2011). Context-specific acoustic differences between Peruvian and Iberian Spanish vowels. *Journal of the Acoustical Society of America*, 130: 416-428.
- Paola Escudero & Kateřina Chládková (2010). Spanish listeners' perception of American and Southern British English vowels: Different initial stages for L2 development. *Journal of the Acoustical Society of America*, 128: EL254-EL260.

### Manuscripts under review

- Kateřina Chládková, Paul Boersma, Paola Escudero (under review). Adults learn to shift phoneme boundaries after unsupervised distributional training.
- Kateřina Chládková & Šárka Šimáčková (under review). Learning from speech sounds' probability distributions is constrained by prior language experience.

### Peer-reviewed proceedings

- Chládková, K., Boersma, P. Benders, T. (2015). The perceptual basis of the feature vowel height. *Proceedings of ICPHS XVIII 2015*, Glasgow, article 711.
- Dadwani, R., Peter, V., Chládková, K., Geambaşu, A., Escudero, P. (2015). Adult listeners' processing of indexical versus linguistic differences in a pre-attentive discrimination paradigm. *Proceedings of ICPHS XVIII 2015*, Glasgow, article 829.

Václav Jonáš Podlipský, Šárka Šimáčková & Kateřina Chládková (2013). Imitation interacts with one's second-language phonology but it does not operate cross-linguistically. *Proceedings of Interspeech 2013*, Lyon, France.

Kateřina Chládková & Silke Hamann (2011). High vowels in Standard British English: /u/-fronting does not result in merger. *Proceedings of ICPhS XVII 2011*, Hong Kong, pp 476-479.

Sophie ter Schure, Kateřina Chládková and Jan-Willem van Leussen (2011). Comparing identification of artificial and natural vowels. *Proceedings of ICPhS XVII 2011*, Hong Kong, pp 1770-1773.

Paul Boersma & Kateřina Chládková (2011). Asymmetries between speech perception and production reveal phonological structure. *Proceedings of ICPhS XVII 2011*, Hong Kong, pp 328-331.

Paul Boersma & Kateřina Chládková (2010). Detecting categorical perception in continuous discrimination data. *Proceedings of Interspeech 2010*.

Kateřina Chládková, Paul Boersma, Václav Jonáš Podlipský (2009). On-line formant shifting as a function of F0. *Proceedings of Interspeech 2009*.

#### Other conference proceedings

Kateřina Chládková, Karel Janíček, Eva Boudová, Václav Jonáš Podlipský (2008). Perception of vowel quantity by English learners of Czech and native listeners. In: V. P. Polách (Ed.) *Jazyková interakce a jazykové rozhraní a strategie „cutting-edge“*. Olomouc: VUP. 131-135.

Václav Jonáš Podlipský & Kateřina Chládková (2007). Vowel duration induced by coda consonant voicing and perceptual short/long vowel categorization in Czech. In Vích, R. (Ed.) *Speech processing: 17th Czech - German Workshop*. Prague: Institute of Photonics and Electronics, Academy of Sciences CR, 68-74.

#### PhD and MA thesis

Kateřina Chládková (2014). *Finding Phonological Features in Perception*. PhD dissertation, University of Amsterdam.

Kateřina Chládková (2009). Auditory cues determine allomorphy: Vocalized and non-vocalized prepositions in Czech. Unpublished MA thesis, University of Amsterdam.

#### Presentations

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##### Invited talks

Tracing phonological vowel length across languages through pre-attentive auditory responses to vowel duration differences: an ERP study. @ LACG meeting, Leiden University, February 14, 2013.

Investigating the perceptual basis of phonological features. @ Phonology Seminar, University of California Los Angeles, October 26, 2011.

Perception of speech sound structure. @ Speech Perception seminar, Palacký University Olomouc, February 28, 2011.

##### Conference talks and posters

2017

K. Chládková, M. Scharinger, E. Schröger. *Distributional learning may not exploit all available input*. poster @ Salzburg Mind - Brain annual meeting, July 2017.

K. Chládková, M. Scharinger, E. Schröger. *Distributional learning of auditory categories does not exploit all available dimensions*. poster @ Interdisciplinary Advances in Statistical Learning, Bilbao, June 2017.

2016

K. Chládková, A. Geambaşu, P. Escudero. *Visual information aids statistical and rule learning of syllable triplets: evidence from ERPs*. @ SNL meeting, London, August 2016.

K. Chládková, D. Williams. *MMN magnitude reveals asymmetries in phonological encoding: vowel-specific representations for length in Dutch*. @ SNL meeting, London, August 2016.

D. Williams, K. Chládková. *Phonological specification of spectral change in Australian English front vowels*. @ the Society for the Neurobiology of Language (SNL) annual meeting, London, August 2016.

2015

K. Chládková, P. Escudero. *Changes in MMR amplitude reflect fast phonetic learning in adult listeners* @ Error Signals from the Brain - 7th Mismatch Negativity Conference, Leipzig, Germany, Sep 2015.

K. Chládková, R. Dadwani, V. Peter, P. Escudero. *Adult listeners' processing of indexical versus linguistic differences as reflected by the mismatch negativity* @ Error Signals from the Brain - 7th Mismatch Negativity Conference, Leipzig, Germany, Sep 2015.

K. Chládková, P. Boersma, T. Benders. *The perceptual basis of the feature vowel height* @18th International Congress of Phonetic Sciences, Glasgow, UK, Aug 2015.

R. Dadwani, V. Peter, K. Chládková, A. Geambaşu, P. Escudero. *Adult listeners' processing of indexical versus linguistic differences in a pre-attentive discrimination paradigm* @18th International Congress of Phonetic Sciences, Glasgow, UK, Aug 2015.

2014

K. Chládková & P. Escudero. *Within-block amplification of the mismatch negativity suggests rapid phonetic learning for non-native categories* @ the Society for the Neurobiology of Language (SNL) annual meeting, Amsterdam, August 2014.

K. Chládková & P. Escudero. *Adult listeners shift their established phoneme boundaries after 9 minutes of distributional training: evidence from ERP measurements* @ SNL annual meeting, Amsterdam, August 2014.

R. Dadwani, K. Chládková, A. Geambaşu, V. Peter, P. Escudero. *Adult listeners handle speaker and dialect variation differently: evidence from an ERP study*, @ SNL annual meeting, Amsterdam, August 2014.

P. Boersma & K. Chládková. *How to learn features from phonetic distributions and phonological alternations*. @ 11<sup>th</sup> Old World Conference in Phonology, Leiden, January 2014.

K. Chládková, T. Benders & P. Boersma. *Listeners detect phonological features directly from the auditory signal: the perceptual basis of vowel height* @ 11<sup>th</sup> Old World Conference in Phonology, Leiden, January 2014.

2013

P. Boersma & K. Chládková. *Neural networks learn features more easily if there are phonological alternations*. @ Phonology, University of Massachusetts, Amherst.

V. J. Podlipský, Š. Šimáčková & K. Chládková. *Imitation interacts with one's second-language phonology but it does not operate cross-linguistically*. @ Interspeech 2013, Lyon, France, August 25 - 29, 2012.

K. Chládková, P. Escudero & S. Lipski. *Native use of vowel duration predicts learning of L2 length contrasts*. @ New Sounds 2013, Montreal, May 17 - 19, 2013.

K. Chládková, P. Escudero & S. Lipski. *Pre-attentive processing of speech sounds reveals native phonological structure: tracing phonological length across languages*. @ Olinco, Olomouc, June 2013.

K. Chládková, P. Escudero & S. Lipski. *Tracing phonological vowel length across languages through pre-attentive auditory responses to vowel duration differences: an ERP study*. @ CUNY Conference on the Feature in Phonetics and Phonology, New York, Jan 16 - 18, 2013.

P. Boersma & K. Chládková. *Emergence of vowel features in a neural network*. @ CUNY Conference on the Feature in Phonetics and Phonology, New York, Jan 16 - 18, 2013.

2012

V. J. Podlipský, K. Chládková & Š. Šimáčková. *Length or height? Front-back symmetry in the Czech vowel system*. @ LabPhon13, Stuttgart, Germany, July 26 - 29, 2012.

S. Hamann & K. Chládková. *Sound change as change in cue association: the case of Standard Southern British /u/-fronting*. @ LabPhon13, Stuttgart, Germany, July 26 - 29, 2012.

K. Chládková, S. Hamann & D. Williams. The possible role of alternative perceptual cues in sound change: Diphthongization in Standard Southern British English /u/-fronting. @ 2nd Workshop on Sound Change, Klooster Seeon, Bavaria, Germany, May 2 - 4, 2012.

S. Hamann & K. Chládková. Standard Southern British /u/-fronting as a change in the perception grammar. @ PAC2012, Toulouse, France, Feb 29 - March 2, 2012.

#### 2011

K. Chládková & P. Escudero. The interrelation between perceived and produced vowel spaces in Brazilian and European Portuguese. @ 162nd meeting of the Acoustical Society of America, San Diego, California, October 31 - November 4, 2011.

P. Escudero & K. Chládková. Spanish learners' perception of American and Southern British English vowels. @ 162nd meeting of the Acoustical Society of America, San Diego, California, October 31 - November 4, 2011.

S. ter Schure, K. Chládková & J.-W. van Leussen. Comparing identification of artificial and natural vowels. @ 17th ICPhS, Hong Kong, August 17 - 21, 2011.

K. Chládková & S. Hamann. High vowels in Standard British English: /u/-fronting does not result in merger. @ 17th ICPhS, Hong Kong, August 17 - 21, 2011. With S. Hamann.

P. Boersma & K. Chládková. Asymmetries between speech perception and production reveal phonological structure. @ 17th ICPhS, Hong Kong, August 17 - 21, 2011. With P. Boersma.

S. Hamann & K. Chládková. Merger or not? The case of Standard Southern British /u/-fronting. @ 19th Manchester Phonology Meeting, May 19 - 21, 2011. With S. Hamann.

J.-W. van Leussen & K. Chládková. Getting a (word) in edgeways: Parallel prepositional phonology @ Old World Conference in Phonology 8, Marrakech, January 20 - 22, 2011.

#### 2010-2007

P. Boersma & K. Chládková. Detecting categorical perception in continuous discrimination data. @ Interspeech 2010, Chiba, Japan, September 26 - 30, 2010.

P. Boersma & K. Chládková. Perceptual differences in five-vowel systems reflect differences in feature structure. @ 18th Manchester Phonology Meeting, May 20 - 22, 2010.

P. Boersma & K. Chládková. Phonetic perception-production asymmetries reflect phonological feature structure. @ Computational Modelling of Sound Pattern Acquisition, Edmonton, February 13-14, 2010.

K. Chládková. Auditory cues determine allomorphy: Vocalized and non-vocalized prepositions in Czech. @ Old World Conference in Phonology 7, Nice, January 28 - 30, 2010.

K. Chládková, P. Boersma & V. J. Podlipský. On-line formant shifting as a function of F0. @ Interspeech 2009 Brighton, September 6 - 10, 2009.

K. Chládková. "Weet die Tsjech wat ik zeg?" A study on perception of second- language vowels in Czech learners of Dutch. @ 19de Anéla Juniorendag, January 16, 2009, University of Amsterdam.

K. Chládková, P. Escudero & P. Boersma. A cross-dialect acoustic description of vowels: Peruvian versus European Spanish. @ Acoustics'08 Paris, June 29 - July 4, 2008.

K. Chládková, P. Escudero & P. Boersma. European- and Peruvian-Spanish vowels: a cross-dialectal comparison. @ 18de Anéla Juniorendag, January 25, 2008, Tilburg University.

V. J. Podlipský & K. Chládková. Vowel duration induced by coda consonant voicing and perceptual short/long vowel categorization in Czech. @ 17th Czech-German workshop on Speech Processing, September 19 - 21, 2007, Prague.

K. Chládková, K. Janíček & V. J. Podlipský. Perception of vowel quantity by English learners of Czech and native listeners. @ 8. Mezinárodní konference: Setkání Mladých Lingvistů, May 14 - 16, 2007, Olomouc.

## Teaching & supervision

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2013 – 2017	Member of advisory committee/second reader for BA, MA and PhD theses at Western Sydney University, Leiden University, University of Amsterdam, Palacký University
08/2014	<i>Uncovering the phonological structure of language: perceptual experiments and simulations</i> , two lectures at Summer School of Linguistics, Dačice, Czech Rep.
2014	Webinars and seminars on EEG and ERP analysis in Praat for students and researchers at the University of Western Sydney and Leiden University
2013, 2014	The Acquisition of Phonetics and Phonology: part of the MA course Second Language Acquisition, University of Amsterdam
2012 – 2015	Training and supervision of 13 student assistants in EEG data collection
2011	Phonological theory: OT, PhD seminar, guest lecture, Palacký University in Olomouc, November, 23.
2010	Introduction to linguistics: seminar, BA course (in Dutch), University of Amsterdam

## Organisation & practical skills

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2012	set up of a temporary EEG laboratory at Palacký University in Olomouc, Czech Republic (with BioSemi equipment from the University of Amsterdam)
2011	organization, set up and execution of a large-scale behavioral speech perception experiment at a high school and elderly home in Kent, UK
co-organizer of the following events at the University of Amsterdam:	
2014	Workshop on the Reality of Phonological Representations
2011	NAP dag 2011, one-day conference with talks by PhD candidates
2010	NAP dag 2010
	Workshop on using Eye-Tracking in linguistics and cognitive science
	Workshop on using EEG in linguistics and cognitive science
2009 – 2010	Workshop on technical methods in phonetics
	bi-weekly lab-meetings in phonetics, phonology and language acquisition

## Awards & Scholarships

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2015	Travel award for the 7 <sup>th</sup> Mismatch Negativity Conference (€250) for outstanding contribution, awarded by the conference organization
	Rubicon: personal grant from the Dutch Organization for Scientific Research (NWO) to cover a two-year salary and research expenses (€131.000)
2013	Endeavour Research Fellowship from the Australian Government (approx. €17.000) to cover 4–6 months of research at the University of Western Sydney (could not be realized due to family commitments)
2012	ACLIC Excellence award, University of Amsterdam (€500) for outstanding publication output at the department
2009	Best poster at the Linguistics MA poster festival (€100), University of Amsterdam
2008	Study grant from Mr Charles Merrill (approx. €1500)
	Student travel grant, ASA meeting & Acoustics Paris 2008
	Olomouc Region scholarship for studying abroad (approx. €2000)

2007

Rector's award for best student paper, Palacký University (approx. €150)

Erasmus student exchange scholarship

Olomouc Region scholarship for studying abroad (approx. €1000)

Rector's award for best student paper, Palacký University (approx. €150)

### **Academic service**

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Ad-hoc reviewing for *Brain and Language, Journal of Phonetics, PLoS One*  
*Cognitive Science, Second Language Research, Phonetica*  
*Brain Research, Laboratory Phonology*

member of reviewer board for Olomouc Linguistic Colloquium 2013, 2014, 2016