

# Dr. Timo B. Roettger

## Curriculum Vita

Professor at University of Oslo,  
Department of Linguistics and Scandinavian Studies

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## Academic Appointments

<b>Professor at University of Oslo</b> Department of Linguistic and Scandinavian Studies	<b>-2022</b>
<b>Associate Professor at University of Oslo</b> Department of Linguistic and Scandinavian Studies	<b>2020-2022</b>
<b>Postdoctoral researcher at University of Osnabrück</b> Institute of Cognitive Science, Cognitive Modeling Group (supervisor: Michael FRANKE)	<b>2020</b>
<b>Postdoctoral researcher at Northwestern University</b> Department of Linguistics, Prosody and Speech Dynamics Lab (supervisor: Jennifer COLE)	<b>2018-2019</b>
<b>Postdoctoral researcher at University of Cologne</b> Department of Linguistics – Phonetics (supervisor: Martine GRICE)	<b>2016-2017</b>

## Education

<b>Ph.D. in Phonetics (summa cum laude)</b> University of Cologne, Department of Linguistics - Phonetics Thesis title: Stress and Intonation in Tashlhiyt Berber	<b>2016</b>
<b>M.A. in Linguistics &amp; Phonetics (awarded with honors)</b> University of Cologne, Department of Linguistics (+exchange year at the University of Edinburgh)	<b>2012</b>
<b>B.A. in Linguistics &amp; Phonetics, German Language &amp; Literature</b> University of Cologne, Department of Linguistics	<b>2010</b>

## Publications

For the 46 peer-reviewed publications listed below, I am sole or shared first author on 28, senior author (last) on 4, and contributing author on 14, reflecting a strong independent research profile combined with leadership and collegial cooperation in international collaborations and team science projects.

### Publications: Edited Volumes

**ROETTGER**, Timo B., WINTER, Bodo, & BAAYEN, Harald. Emerging Data Analysis in Phonetic Sciences. *Journal of Phonetics*. DOI: [10.1016/j.wocn.2018.12.001] **2019**

### Publications: Monographs

**ROETTGER**, Timo B. *Tonal Placement in Tashlhiyt – How an Intonation System Accommodates to Adverse Phonological Environments*. (Studies in Laboratory Phonology). Language Science Press: Berlin. DOI: [10.5281/zenodo.814472] **2017**

### Publications: Manuscripts under Review / Revision

XU, Chenzi, KADAVÁ, Šárka, ÖZSOY, Onur, FAYTAK, Matthew, [...] BUCHANAN, Erin, **ROETTGER**, Timo B. [...]. Big Team Language Science - Limitations and Opportunities. **in preparation**

### Publications: Refereed Journal Articles

(shared) 1st author = 18; senior author = 4

BUCHANAN, Erin, [...] **ROETTGER**, Timo B. [...] SPAML: Accuracy in Parameter Estimation and Simulation Approaches for Sample Size Planning with Multiple Stimuli. *Behavior Research Methods*. [\[open data & code\]](#) **under revision**

BUCHANAN, Erin, Cuccola, Kelly, [...] **ROETTGER**, Timo B. [...] SPAML: Semantic Priming Across Many Languages. *Nature Human Behavior*. [\[open data & code\]](#) [\[Registered Report\]](#) **in-principle accepted**

BOCHYNSKA, Agata, KEEBLE, Liam, HALFACRE, Caitlin CASILLAS, Joseph, CHAMPAGNE, Irys-Amélie, CHEN, Kaidi, RÖTHLINGSBERGER, Melanie, BUCHANAN, Erin & **ROETTGER**, Timo B. Reproducible research practices and transparency across linguistics. *Glossa Psycholinguistics*, 2(1). DOI: [http://dx.doi.org/10.5070/G6011239] [\[open data & code\]](#) [\[preregistered\]](#) **2023**

- CORETTA, Stefano, CASILLAS, Joseph, [...] & **ROETTGER**, Timo B. 2023  
Multidimensional signals and analytic flexibility: Estimating degrees of freedom in human speech analyses. *Advances in Methods and Practices in Psychological Science* 6(2): 1-29. DOI: [https://doi.org/10.1177/25152459231162567] [open data & code] [Registered Report]
- KOBROCK, Kristina & **ROETTGER**, Timo B. Assessing the replication landscape in experimental linguistics. *Glossa Psycholinguistics* 2(1). DOI: [http://dx.doi.org/10.5070/G6011135] [open data & code] [preregistered]
- PARSONS, Sam, AZEVEDO, F., [...] **ROETTGER**, Timo B. [...] & ACZEL, B. A community-sourced glossary of open scholarship terms. *Nature human behaviour*, 6(3), 312-318. 2022
- KURUMADA, Chigusa & **ROETTGER**, Timo B. Thinking probabilistically in the study of intonational speech prosody. *WIREs Cognitive Science*, e1579. DOI: [https://doi.org/10.1002/wcs.1579] [open data & code] 2021
- ROETTGER**, Timo B. Preregistration in experimental linguistics: Application, challenges, and limits. In *Linguistics* 59(5): 1227-1249. DOI: [https://doi.org/10.1515/ling-2019-0048]
- ROETTGER**, Timo B. Context sensitivity and failed replications in linguistics. In *Linguistics* 59(5): 1357-1358. DOI: [https://doi.org/10.1515/ling-2020-0239]
- ROETTGER**, Timo B., FRANKE, Michael, & COLE Jennifer. Positional biases in predictive processing of intonation. *Journal of Language, Cognition, and Neuroscience*. DOI: [10.1080/23273798.2020.1853185] [open data & code] [preregistered] 2020
- GARELLEK, Marc, GORDON, Matthew, KIRBY, James, LEE, Wai-Sum, MICHAUD, Alexis, MOOSHAMMER, Christine, NIEBUHR, Oliver, RECASENS, Daniel, **ROETTGER**, Timo B., SIMPSON, Adrian, & YU, Kristine Y. Toward open data policies in phonetics: What we can gain and how we can avoid pitfalls. *Journal of Speech Sciences*, 9.1.
- SÓSKUTHY, Márton & **ROETTGER**, Timo B. When the tune shapes morphology: The origins of vocatives. *Journal of Language Evolution*, 5(2): 140-155. DOI: [10.1093/jole/lzaa007] [open data & code]
- ROETTGER**, Timo B. & RIMLAND, Kim. Listeners' adaptation to unreliable intonation is speaker-specific. *Cognition*, 204. DOI: [10.1016/j.cognition.2020.104372] [open data & code]
- ROETTGER**, Timo B. & BAER-HENNEY, Dinah. Toward a replication culture: Speech production research in the classroom. *Phonological Data and Analysis*, 4(1). DOI: [10.3765/pda.v1art4.13] [open data & code] 2019

**ROETTGER**, Timo B. & **FRANKE**, Michael. Evidential strength of intonational cues and rational adaptation to (un-)reliable intonation. *Cognitive Science*. DOI: [10.1111/cogs.12745]

[\[open data & code\]](#) [\[preregistered\]](#)

**ROETTGER**, Timo B. & **GRICE**, Martine. The tune drives the text - Competing information channels of speech shape phonological systems. *Language Dynamics and Change*, 9(2): 265-298. DOI: [10.1163/22105832-00902006]

**ROETTGER**, Timo B., Mahrt, Tim, & **COLE**, Jennifer. Mapping prosody onto meaning – the case of information structure in English. *Language, Cognition and Neuroscience*, 34(7): 814-860. DOI: [10.1080/23273798.2019.1587482]  
[\[open data & code\]](#)

**2019**

**ROETTGER**, Timo B. Researcher degrees of freedom in phonetic research. *Journal of the Association for Laboratory Phonology*, 10(1). DOI: [10.5334/labphon.147]

[\[open data & code\]](#)

**ROETTGER**, Timo B, **WINTER**, Bodo, & **BAAYEN**, Harald. Emergent data analysis in phonetic sciences. *Journal of Phonetics*, 73: 1-7. DOI: [10.1016/j.wocn.2018.12.001]

**NICENBOIM**, Bruno, **ROETTGER**, Timo B., **VASISHTH**, Shravan. Using meta-analysis for evidence synthesis: The case of incomplete neutralization in German. *Journal of Phonetics*, 70: 39-55. DOI: [10.1016/j.wocn.2018.06.001]  
[\[open data & code\]](#)

**2018**

**GRICE**, Martine, **SAVINO**, Michelina, & **ROETTGER**, Timo B. Word final schwa is driven by intonation – the case of Bari Italian. *Journal of Acoustical Society of America*, 143, 2474. DOI: [10.1121/1.5030923]  
[\[open data & code\]](#)

**MÜCKE**, Doris, **HERMES**, Anne, **ROETTGER**, Timo B., **BECKER**, Johannes, **NIEMANN**, Henrik, **OPITZ**, Marcel, **DEMBEK**, Till, **TIMMERMANN**, Lars, **VISSER-VANDEWALLE**, Veerle, **FINK**, G. R., **GRICE**, Martine, & **BARBE**, Michael T. The effects of Thalamic Deep Brain Stimulation on speech dynamics in patients with Essential Tremor: An articulographic study. *PloS One*, 13(1). DOI: [10.1371/journal.pone.0191359]  
[\[open data & code\]](#)

**ROETTGER**, Timo B. & **GORDON**, Matthew K. Methodological issues in the study of word stress correlates. *Linguistic Vanguard*, 3(1). DOI: [10.1515/lingvan-2017-0006]  
[\[open data & code\]](#)

**2017**

**GORDON**, Matthew K. & **ROETTGER**, Timo B. Acoustic correlates of word stress: a cross-linguistic survey. *Linguistic Vanguard*, 3(1). DOI: [10.1515/lingvan-2017-0007]  
[\[open data & code\]](#)

GRICE, Martine, RITTER, Simon, NIEMANN, Henrik, & **ROETTGER**, Timo B. Integrating the discreteness and continuity of intonational categories. *Journal of Phonetics*, 64, 90-107. DOI: [10.1016/j.wocn.2017.03.003]  
[\[open data & code\]](#)

BRUGGEMAN, Anna, **ROETTGER**, Timo B., & GRICE, Martine. Question word intonation in Tashlhiyt Berber: is 'high' good enough? *Laboratory Phonology: Journal of the Association for Laboratory Phonology*, 8(1), 5. DOI: [10.5334/labphon.79]

**ROETTGER**, Timo B. & GRICE, Martine. The role of high pitch in Tashlhiyt Tamazight (Berber) – Evidence from production and perception. *Journal of Phonetics*, 51, 36-49. DOI: [10.1016/j.wocn.2014.12.004]

**2015**

**ROETTGER**, Timo B. & DOMAHS, Frank. Grammatical Number elicits SNARC and MARC effects as a function of task demands. *Quarterly Journal of Experimental Psychology*, 68, 1231-1248. DOI: [10.1080/17470218.2014.979843]

GRICE, Martine, RIDOUANE, Rachid, & **ROETTGER**, Timo B. Tonal association in Tashlhiyt Berber. Evidence from polar questions and contrastive statements. *Phonology*, 32, 241-266. DOI: [10.1017/S0952675715000147]

**ROETTGER**, Timo B., WINTER, Bodo, KIRBY, James, GRAWUNDER, Sven, & GRICE, Martine. Assessing incomplete neutralization of final devoicing in German. *Journal of Phonetics*, 43, 11-25. DOI: [10.1016/j.wocn.2014.01.002]  
[\[open data & code\]](#)

**2014**

MÜCKE, Doris, BECKER, Johannes, BARBE, Michael T., MEISTER, Ingo, LIEBHART, Lena, **ROETTGER**, Timo B., DEMBEK, Till, TIMMERMANN, Lars, & GRICE, Martine. The effect of Deep Brain Stimulation on the speech motor system in Essential Tremor Patients. *Journal of Speech, Language, and Hearing Research*, 57, 1206-1218. DOI: [10.1044/2014\_JSLHR-S-13-0155]

**ROETTGER**, Timo. B., DOMAHS, Ulrike, GRANDE, Marion, & DOMAHS, Frank. Structural factors affecting the assignment of word stress in German. *Journal of Germanic Linguistics*, 24(1), 53-94. DOI: [10.1017/S1470542711000262]

**2012**

WINTER, Bodo & **ROETTGER**, Timo B. The Nature of Incomplete Neutralization: Implications for Laboratory Phonology. *Grazer Linguistische Studien*, 76, 55-74.

**2011**

## Publications: Refereed Conference Proceedings

(shared) 1st author = 9; senior author = 1

- ROETTGER**, Timo B., FRANKE, Michael, & COLE Jennifer. Testing the relevance of prenuclear accents for predicting intonational meaning in German. *Proceedings of 19<sup>th</sup> International Congress on Phonetic Sciences (ICPhS)*, Melbourne. [\[open data & code\]](#) [\[preregistered\]](#) **2019**
- GRICE, Martine, SAVINO, Michelina, & **ROETTGER**, Timo B. Tune-text negotiation: The effect of intonation on vowel duration. *Proceedings of 19<sup>th</sup> International Congress on Phonetic Sciences (ICPhS)*, Melbourne. [\[open data & code\]](#)
- ROETTGER**, Timo B. & FRANKE, Michael. Dynamic speech adaptation to unreliable cues during intonational processing. *Proceedings of 40<sup>th</sup> Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society. DOI: [10.31219/osf.io/v6exy] [\[open data & code\]](#) [\[preregistered\]](#) **2018**
- ROETTGER**, Timo B. & STOEGER, Mathias. Manual Response dynamics reflect rapid integration of intonational information during reference resolution. *Proceedings of 39<sup>th</sup> Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society. [\[open data & code\]](#) **2017**
- ROETTGER**, Timo B., BRUGGEMAN, Anna, & GRICE, Martine. Word stress in Tashlhiyt – Post lexical prominence in disguise? *Proceedings of 18<sup>th</sup> International Congress on Phonetic Sciences (ICPhS)*, Glasgow. [\[IPA student paper award\]](#) **2015**
- GRICE, Martine, SAVINO, Michelina, CAFFO, Alessandro, & **ROETTGER**, Timo B. The tune drives the text - Schwa in consonant-final loanwords in Italian. *Proceedings of 18<sup>th</sup> International Congress on Phonetic Sciences (ICPhS)*, Glasgow. [\[open data & code\]](#)
- RITTER, Simon & **ROETTGER**, Timo B. Speakers modulate noise-induced pitch according to intonational context. *Proceedings of 7<sup>th</sup> International Conference on Speech Prosody*, Dublin. **2014**
- ROETTGER**, Timo B., RIDOAUANE, Rachid, & GRICE, Martine. Perception of peak placement in Tashlhiyt Berber. *Proceedings of 7<sup>th</sup> International Conference on Speech Prosody*, Dublin.
- ROETTGER**, Timo B. & DOMAHS, Frank. The spatial representation of grammatical number. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35<sup>th</sup> Annual Conference of the Cognitive Science Society* (pp. 1247-1252). Austin, TX: Cognitive Science Society. **2013**
- ROETTGER**, Timo B., RIDOAUANE, Rachid, & GRICE, Martine. Phonetic alignment and phonological association in Tashlhiyt Berber. *Proceedings of the 21<sup>st</sup> International Congress of Acoustics*, Montréal.

**ROETTGER**, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Sonority and syllable weight determine tonal association in Tashlhiyt Berber. *Proceedings of 6<sup>th</sup> International Conference on Speech Prosody*, Shanghai. **2012**

[Best student paper award]

**ROETTGER**, Timo B., WINTER, Bodo, & GRAWUNDER, Sven. The robustness of Incomplete Neutralization in German. *Proceedings of 17<sup>th</sup> International Congress of Phonetic Sciences (ICPhS)*, Hong Kong, 1722-1725. **2011**

GRICE, Martine, **ROETTGER**, Timo B., RIDOUANE, Rachid, & FOUGERON, Cécile. The association of tones in Tashlhiyt Berber. *Proceedings of 17<sup>th</sup> International Congress of Phonetic Sciences (ICPhS)*, Hong Kong, 775-778.

## Unpublished manuscripts

**ROETTGER**, Timo B., TURNER, Daniel, & COLE, Jennifer. Intonational processing is incremental and holistic. Preprint DOI: [10.31234/osf.io/nhbgs] **2020**

[open data & code] [preregistered]

**ROETTGER**, Timo B., SCHMALZ, Xenia, CHAMBERS, Chris, FRASER, Hannah, MELLOR, David, OSTOJIC, Ljerka, SCHOOF, Tim (2019). We still need more trust in science: The need for broader adoption of Registered Reports. *MetaArXiv* osf.io/preprints/metaarxiv/4sb7c. **2019**

## Other Resources

SimplPoints Youtube Channel on effective science communication: <https://www.youtube.com/@simplpoints> **-2023**

FRANKE, Michael & **ROETTGER**, Timo B. Bayesian regression modeling (for factorial designs): A tutorial. Retrievable from <https://psyarxiv.com/cdxv3> **2019**

GORDON, Matthew & **ROETTGER**, Timo B. Studies on acoustic correlates of word stress - an online corpus. Retrievable from <https://osf.io/9r2cd> **2017**

BRUGGEMAN, Anna & **ROETTGER**, Timo B. CoTaSS: Corpus of Tashlhiyt Semi-Spontaneous Speech. Online database. Retrievable from <https://cotass.uni-koeln.de> **2017**

## Oral and Poster Presentations

CORETTA, Stefano, CASILLAS, Joseph, & **ROETTGER**, Timo B. Research Management in "Many Analysts" Projects. Edinburgh Open Research Conference 2022, Edinburgh. **2022**

- COLE, Jennifer, & **ROETTGER**, Timo B. Interpreting pitch accents through the lens of informativity. Oral presentation at *17<sup>th</sup> Conference of Laboratory Phonology*, Vancouver. **2020**
- SÓSKUTHY, Márton, & **ROETTGER**, Timo B. Consonants are dispreferred in vocatives. Poster presentation at *17<sup>th</sup> Conference of Laboratory Phonology*, Vancouver.
- ROETTGER**, Timo B. & SÓSKUTHY, Márton. The evolution of vocative morphology as shaped by the tune. Poster presentation at *13<sup>th</sup> EvoLang*, Brussels. [cancelled]
- COLE, Jennifer S., **ROETTGER**, Timo B., Turner, Daniel R. Intonation processing in American English is incremental and supports forward-backward inference. Poster presentation at ASA 176. Vancouver, Canada. **2020**
- ROETTGER**, Timo B., & COLE, Jennifer. The integration of prenuclear accent is conservative and delayed. Oral presentation at *MidPhon*, Milwaukee. **2019**
- ROETTGER**, Timo B., FRANKE, Michael, & COLE Jennifer. Testing the relevance of prenuclear accents for predicting intonational meaning in German. Oral presentation at *19<sup>th</sup> International Congress on Phonetic Sciences (ICPhS)*, Melbourne.
- GRICE, Martine, SAVINO, Michelina, & **ROETTGER**, Timo B. Tune-text negotiation: The effect of intonation on vowel duration. Oral presentation at *19<sup>th</sup> International Congress on Phonetic Sciences (ICPhS)*, Melbourne.
- ROETTGER**, Timo B., FRANKE, Michael, & COLE, Jennifer. Prediction and adaptation in intonational processing. Oral presentation at *MidPhon*, Evanston. **2018**
- ROETTGER**, Timo B., FRANKE, Michael, & COLE, Jennifer. Listeners rationally adapt to unreliable intonation. Oral presentation at *ProsLang – Workshop on the Processing of Prosody across Languages and Varieties*, Wellington.
- WEHRLE, Simon, **ROETTGER**, Timo B., & GRICE, Martine. Exploring the Dynamics of Backchannel Interpretation: The Meandering Mouse Paradigm. Oral presentation at *ProsLang – Workshop on the Processing of Prosody across Languages and Varieties*, Wellington.
- ROETTGER**, Timo B. & FRANKE, Michael. Dynamic speech adaptation to unreliable cues during intonational processing. Oral presentation at *40<sup>th</sup> Annual Conference of the Cognitive Science Society*, Madison.
- ROETTGER**, Timo B. & COLE, Jennifer. On the (ir)relevance of prenuclear accents for intonational learning. Poster presentation at *16<sup>th</sup> Conference of Laboratory Phonology*, Lisbon.
- FRANKE, Michael & **ROETTGER**, Timo B. Speech adaptation in real-time interpretation of intonation. Poster presentation at *16<sup>th</sup> Conference of Laboratory Phonology*, Lisbon.



BAER-HENNEY, Dinah & **ROETTGER**, Timo B. Control vs power in phonetic research. Poster presentation at *16<sup>th</sup> Conference of Laboratory Phonology*, Lisbon.

**ROETTGER**, Timo B. & FRANKE, Michael. Adapting to the unreliable - Speech adaptation in real-time interpretation of intonation. Poster presentation at *31<sup>th</sup> CUNY sentence processing conference*, Davis.

**ROETTGER**, Timo B. & GRICE, Martine. The tune drives the text – how intonation drives vowel emergence. Oral presentation at *XLanS - Triggers of Language Change in the Language Sciences*, Lyon.

**2017**

BAER-HENNEY, Dinah & **ROETTGER**, Timo B. Do high frequency prototypes affect phonotactic learning? Poster presentation at *Phonetics & Phonology 13*, Berlin.

**2017**

FRANKE, Michael, DEGEN, Judith, AUGURZKY, Petra, & **ROETTGER**, Timo B. Incremental and predictive pragmatic interpretation: A rational analysis. Oral presentation at *XPrag.de Annual Meeting*, Cologne.

WEHRLE, Simon, **ROETTGER**, Timo B., & GRICE, Martine. Tracking the Perceptual Effects of Backchannel Behaviour in Asperger Syndrome and Second Language Speech. Oral presentation at *Processing prosody across languages, varieties, and nativeness (ProPro)*, Munich.

**ROETTGER**, Timo B. & STOEGER, Mathias. Manual Response dynamics reflect rapid integration of intonational information during reference resolution. Poster presentation at *39<sup>th</sup> Annual Conference of the Cognitive Science Society*. London.

**ROETTGER**, Timo B. & STOEGER, Mathias. Tracking continuous motor responses as a window into real-time speech perception. Poster presentation at *Phonology and Phonetics in Europe (PaPE)*, Cologne.

**ROETTGER**, Timo B. & GRICE, Martine. Contrasts in intonation – probabilistic and continuous descriptions. Oral presentation at *Perspectives of marginal contrasts - Satellite Workshop at 15<sup>th</sup> Conference of Laboratory Phonology (LabPhon)*, Cornell.

**2016**

**ROETTGER**, Timo B. & BAER-HENNEY, Dinah. High frequency prototypes do not facilitate phonotactic generalizations. Poster presentation at *15<sup>th</sup> Conference of Laboratory Phonology (LabPhon)*, Cornell.

HARTINGER, Mariam, Mareike SCHOLZ, Michael T. BARBE, Doris MÜCKE, Anne HERMES, Timo B. **ROETTGER**, Johannes BECKER, Marcel OPITZ, Till A. DEMBEK, Ingo G. MEISTER, Veerle VISSER-VANDEWALLE, Martine GRICE, & Lars TIMMERMANN. ICF-based effects of VIM-DBS on communication in everyday life in patients with essential tremor. Presentation at *20<sup>th</sup> international congress of Parkinson's Disease and movement disorders*, Berlin.

Mücke, D., Anne Hermes, Michael T. BARBE, Timo B. **ROETTGER**, Henrik Niemann, Johannes BECKER, Miriam Hartinger, Ingo MEISTER, Veerle VISSER-VANDEWALLE, Lars TIMMERMANN, & Martine GRICE. Regulation in speech motor control in ET patients treated with DBS: Kinematics of the lingual and the labial systems. Presentation at 20<sup>th</sup> *international congress of Parkinsons's Disease and movement disorders*, Berlin.

BARBE, Michael T., Doris MÜCKE, Anne HERMES, Timo B. **ROETTGER**, Johannes BECKER, Marcel OPITZ, Till A. DEMBEK, Mariam HARTINGER, Ingo G. MEISTER, Veerle VISSER-VANDEWALLE, Martine GRICE, & Lars TIMMERMANN. Articulography reveals disturbed speech motor control in ET patients treated with VIM-DBS. Presentation at 20<sup>th</sup> *international congress of Parkinsons's Disease and movement disorders*, Berlin.

BECKER, Johannes, Michael T. BARBE, Timo B. **ROETTGER**, Mariam HARTINGER, Jil POCHMANN, Till A. DEMBEK, Jochen WIRTHS, Niels ALLERT, Doris MÜCKE, Ingo G. MEISTER, Veerle VISSER-VANDEWALLE, Martine GRICE, & Lars TIMMERMANN. The effect of uni- and bilateral thalamic Deep Brain Stimulation on speech in patients with Essential Tremor: production and perception. Presentation at 20<sup>th</sup> *international congress of Parkinsons's Disease and movement disorders*, Berlin.

**2016**

**ROETTGER**, Timo B., BRUGGEMAN, Anna, & GRICE, Martine. Word stress in Tashlhiyt – Post lexical prominence in disguise? Oral presentation at 18<sup>th</sup> *International Congress on Phonetic Sciences (ICPhS)*, Glasgow.

**2015**

GRICE, Martine, SAVINO, Michelina, CAFFO, Alessandro, & **ROETTGER**, Timo B. The tune drives the text - Schwa in consonant-final loanwords in Italian. Oral presentation at 18<sup>th</sup> *International Congress on Phonetic Sciences (ICPhS)*, Glasgow.

**ROETTGER**, Timo, B. & GRICE, Martine. The tune drives the text – Evidence from Italian and Tashlhiyt Berber. Oral presentation at *Dynamic Modeling Workshop (DYMO)*, Cologne.

BRUGGEMAN, Anna, **ROETTGER**, Timo B., & GRICE, Martine. Variability and uniformity in Tashlhiyt question word tones. Oral presentation at *Phonetics and Phonology in Europe (PaPE)*, Cambridge.

**ROETTGER**, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Schwa in Tashlhiyt Berber in voiceless environment. Poster presentation at 14<sup>th</sup> *Conference of Laboratory Phonology (LabPhon)*, Tokyo.

**2014**

GRICE, Martine, **ROETTGER**, Timo B., & RIDOUANE, Rachid. Intrusive vowels in Tashlhiyt Berber – a motivation for voicing in voiceless words. Oral presentation at 22<sup>nd</sup> *Manchester Phonology Meeting*, Manchester.

**2014**

RITTER, Simon & **ROETTGER**, Timo B. Speakers modulate noise-induced pitch according to intonational context. Poster presentation at 7<sup>th</sup> *International Conference on Speech Prosody*, Dublin.

- ROETTGER**, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Perception of peak placement in Tashlhiyt Berber. Poster presentation at 7<sup>th</sup> *International Conference on Speech Prosody*, Dublin. **2014**
- ROETTGER**, Timo B. & DOMAHS, Frank. The spatial representation of grammatical number. Oral presentation at the 33<sup>rd</sup> *Annual Conference of Cognitive Science Society*, Berlin. **2013**
- ROETTGER**, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Phonetic alignment and phonological association in Tashlhiyt Berber. Poster presentation at 21<sup>st</sup> *International Congress on Acoustics*, Montréal.
- ROETTGER**, Timo B., WINTER, Bodo, KIRBY, James, & GRICE, Martine. Incomplete Neutralization - A cognitive artifact of lexical co-activation? Poster presentation at 13<sup>th</sup> *Conference of Laboratory Phonology (LabPhon)*, Stuttgart. **2012**
- ROETTGER**, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Sonority and syllable weight determine tonal association in Tashlhiyt Berber. Oral presentation at 6<sup>th</sup> *International Conference on Speech Prosody*, Shanghai. **2012**
- ROETTGER**, Timo B., WINTER, Bodo, & GRAWUNDER, Sven. The robustness of Incomplete Neutralization in German. Oral presentation at 17<sup>th</sup> *International Congress of Phonetic Sciences (ICPhS)*, Hong Kong **2011**
- GRICE, Martine, **ROETTGER**, Timo B., RIDOUANE, Rachid, & FOUGERON, Cécile. The association of tones in Tashlhiyt Berber. Poster presentation at 17<sup>th</sup> *International Congress of Phonetic Sciences (ICPhS)*, Hong Kong.
- EVERTZ, Martin, **ROETTGER**, Timo B., & PRIMUS, Beatrice. Prosodic units in language and writing: mora, syllable, and foot. Oral presentation at 7<sup>th</sup> *International Workshop on Writing Systems and Literacy*, Paris. **2010**
- EVERTZ, Martin, **ROETTGER**, Timo B., & PRIMUS, Beatrice. Graphematic prosodic structure. Poster presentation at the *Cologne International Workshop on Prosody*, Cologne.
- ROETTGER**, Timo B., EVERTZ, Martin, & PRIMUS, Beatrice. Schriftinduzierte Prosodie. Oral presentation at *DGfS annual meeting*, Berlin.

## Invited and Colloquium Talks

- University of Cologne** [\[short list\]](#) **2024**  
*Institut für Linguistik - Phonetik*  
 On Blue Bananas and the Future of Phonetic Research
- Prosody and Beyond 2023 Workshop, Seoul** [\[plenary speaker\]](#) **2023**  
 Many Prosodies - Toward a Big Team Science approach to prosody research

<b>Universität Erfurt</b> <i>Nachwuchskolleg Sprachbeherrschung</i> ManyLanguages - Toward a Big Team Science approach to experimental linguistic research	2023
<b>CICERO - Senter for Klimaforskning</b> Clear and Credible Data Visualization	
<b>FHI (Folkehelseinstituttet) Norway</b> <i>Department of Children Health and Development</i> Dataviz in Science - How to be Clear and Credible	
<b>LabPhon18</b> <i>[plenary speaker]</i> The cart before the horse - the role of confirmation and exploration in Laboratory Phonology	2022
<b>University of Cologne, a.r.t.e.s. graduate school</b> A crisis in confidence or a credibility revolution?	
<b>FHI (Folkehelseinstituttet) Norway</b> <i>Department of Mental Health and Suicide</i> Dataviz in Science - How to be Clear and Credible	2022
<b>University of Arizona</b> <i>Department of Linguistics</i> Not even wrong - why experimental linguists should stop testing hypotheses	
<b>University of Oslo</b> <i>Department of Sociology &amp; Human Geography</i> Clarity and Credibility as Guiding Principles in Data Visualization	2021
<b>University of Oslo</b> <i>Promenta Research Center for Mental Health</i> Dataviz in Science - How to be Clear and Credible	
<b>Abralin ao Vivo</b> Discussant for Jennifer Cole's talk "Unlocking prosody: Discovering structured variation and rich context effects"	
<b>CNRS Paris</b> <i>Séminaires de Recherches en Phonétique et Phonologie</i> Toward transparent and reproducible speech sciences	
<b>Aarhus University</b> <i>Sounds of Language and Speech Group</i> The Credibility Revolution in the Speech Sciences	
<b>Queen Mary University of London</b> <i>Department of Linguistics</i> Pre-registration in Linguistic Research	2020

**Keio University & International Christian University**

*The Institute of Cultural and Linguistic Studies & Linguistics Lab*

Grammar shaped by melody – a tune-driven pathway to morphology

**University of Oslo** [short list]

**2019**

*Department of Linguistics and Scandinavian Studies*

The tune drives the text – how intonation shapes linguistic systems

**University of Bamberg**

*Department of English Linguistics*

The fight against the file drawer - Preregistrations and Registered Reports

**University of Cologne**

*Department of Phonetics*

Rationally speaking - How do listeners deal with intonational variability?

**Heinrich-Heine-Universität Düsseldorf**

**2019**

*Department of English Language and Linguistics*

Are we rational when we integrate prosodic information?

**University of Wisconsin, Milwaukee**

*Department of Linguistics*

Does the tune shape phonology?

**Rutgers University**

*Department of Linguistics* [short list]

The tune shapes phonology – how intonation drives segmental alternations.

**University of Stuttgart**

**2018**

*Department of Linguistics* [short list]

Prediction and adaptation in prosodic processing

**University of Rochester**

*Brain and Cognitive Sciences Department*

Prediction and adaptation in intonational processing

**University of Chicago**

*Department of Psychology / Linguistics*

Overcoming the lack of invariance of intonational categories – Prediction and adaptation

**Northwestern University**

**2017**

*Department of Linguistics, SoundLabz*

Adapting to the unreliable - Mouse movements reveal adaptation to unreliable intonation.

**University of Frankfurt***Department of Linguistics*

Does the tune drive the text? Vowel insertion triggered by intonation.

**University of Cologne***Department of General Linguistics*

The tune drives the text – the role of intonation in linguistic change.

**University of Munich***Department of Phonetics and Speech Processing*

The role of phrase-level prosody in sound change – the case of vowel insertion

**University of Cologne***Department of German Linguistics*

Moving hands reveal the dynamics of prosody-based intention recognition.

**University of Tübingen****2017***General & Theoretical Linguistics*

Manual response tracking during intonation-based intention recognition.

**University of Bielefeld***Faculty of Linguistics and Literature Studies*

Tracking Hand movements to unravel the time course of intonation-based intention recognition.

**Heinrich-Heine-Universität Düsseldorf****2016***Department of General Linguistics*

Unvollständige Neutralisation - Auf der Jagd nach einem phonologischen Phantom?

**University of Leiden****2015***Leiden University Centre for Linguistics*

Tonal placement in Tashlhiyt - postlexical variability due to the absence of word stress?

**UC Merced****2014***Department of Cognitive and Information Sciences*

The tune drives the text – how an intonation system accommodates to adverse phonological environments.

**UC Southern California***Department of Linguistics*

Vowel emergence driven by the tune – evidence from Tashlhiyt Berber.

<b>University of Cologne</b> <i>Department of German Linguistics</i> Unvollständige Neutralisierung – phonologisch repräsentiert oder nur ein methodisches Artefakt?	<b>2013</b>
<b>RWTH Aachen University</b> <i>Department of Neurology</i> Numerical processing of number words and number inflection. Evidence from the SNARC Effect.	<b>2011</b>
<b>University of Cologne</b> <i>Department of German Linguistics</i> Visuelle Prosodie - Schriftinduzierter Wortakzent	<b>2010</b>
<b>University of Cologne</b> <i>Department of German Linguistics</i> Psycholinguistische Evidenz für ein gewichtssensitives Akzentsystem im Deutschen	<b>2009</b>

## Funding

### Grants and Funding (successful)

<b>UoC Graduate and Young Researcher Program (GYRP)</b> University of Cologne PostDoc research grant for “TraMOUS – Tracking Hand Movements to Unravel the Dynamics of Speech Processing”.	<b>2017-2018</b> 49,000€
<b>Cologne Center of Language Sciences (CCLS)</b> Grant for organisation of “Statistical methods in phonetic sciences” Satellite workshop at Phonetics and Phonology in Europe (PaPE).	<b>2017</b> 500€
<b>German Academic Exchange Service (DAAD)</b> Travel grant for participation at the 15th Conference of Laboratory Phonology (LabPhon), Cornell.	<b>2016</b> 1,550€
<b>University of Cologne</b> Starting grant for “What is a category in intonation?” (together with Martine GRICE)	<b>2015</b> 5,800€
<b>a.r.t.e.s. Graduate School for the Humanities, UoC</b> Travel grant for fieldwork on Tashlhiyt Berber in Agadir, Morocco.	<b>2015</b> 950€
<b>German Academic Exchange Service (DAAD)</b> Travel grant for visiting stay at Department for Cognitive and Information Sciences, University of California, Merced.	<b>2014</b> 1,250€

<b>a.r.t.e.s. Graduate School for the Humanities, UoC</b> Travel grant for participation at the 14 <sup>th</sup> <i>Conference of Laboratory Phonology (LabPhon)</i> , Tokyo.	<b>2014</b> 1,650€
<b>a.r.t.e.s. Graduate School for the Humanities, UoC</b> Travel grant for fieldwork on Tashlhiyt Berber in Agadir, Morocco.	<b>2013</b> 750€
<b>a.r.t.e.s. Graduate School for the Humanities, UoC</b> Travel grant for participation at the 21 <sup>st</sup> <i>International Congress on Acoustics (ICA)</i> , Montréal.	<b>2013</b> 1,200€
<b>German Academic Scholarship Foundation (“Studienstiftung”)</b> Travel grant for participation at the 6 <sup>th</sup> <i>International Conference on Speech Prosody</i> , Shanghai, 2012	<b>2012</b> 800€
<b>German Academic Scholarship Foundation (“Studienstiftung”)</b> Exchange grant for academic exchange year at the School of Philosophy, Psychology and Language Sciences, University of Edinburgh, 2011-2012	<b>2011-2012</b> 5,000€
<b>German Academic Scholarship Foundation (“Studienstiftung”)</b> Travel grant for participation at the 17 <sup>th</sup> <i>International Congress of Phonetic Sciences (ICPhS)</i> , Hong Kong, 2011	<b>2011</b> 800€

## Grants and Funding (pending / not successful)

<b>RRROUGH - The nature of haptic iconicity in speech (Co-PI)</b> Funder: UK Research and Innovation / Norwegian Research Council Money Follows Cooperation (Co-PI together with Bodo Winter, University of Birmingham)	<b>2023</b> in prep.
<b>ICONIC - The emergence and stabilisation of iconicity in human speech (PI)</b> Funder: Norwegian Research Council Researcher Project for Experienced Scientists (FRIPRO) (PI)	<b>2023</b> under review
<b>REPLICLING - Toward a replication culture in experimental linguistics (PI)</b> Funder: Norwegian Research Council Researcher Project for Experienced Scientists (FRIPRO) (PI)	<b>2022</b> unsuccessful
<b>PROBINT - Probabilistic integration and adaptation of prosodic cues to reference resolution (PI)</b> Funder: German Research Council Young Researcher Project for Early Career Scientists (FRIPRO) (PI)	<b>2016</b> unsuccessful



## Scholarships

<b>a.r.t.e.s. Graduate School for the Humanities, UoC</b> Full PhD scholarship for 39 months, University of Cologne	<b>2013-2016</b> 49,000€
<b>German Academic Scholarship Foundation (“Studienstiftung”)</b> Full student scholarship, 2011-2012	<b>2011-2012</b> 4,500€

## Awards

<b>IPA Student Award at ICPhS, Glasgow</b> Paper: ROETTGER, BRUGGEMAN, & GRICE. <i>Word stress in Tashlhiyt – Post lexical prominence in disguise.</i>	<b>2015</b>
<b>Faculty Prize of the Humanities, University of Cologne</b> Awarded for outstanding M.A. thesis Title of thesis: <i>Incomplete Neutralization - A cognitive artifact of lexical co-activation?</i>	<b>2013</b>
<b>Best Student Paper Award at Speech Prosody, Shanghai</b> Paper: ROETTGER, RIDOUANE, & GRICE. <i>Sonority and syllable weight determine tonal association in Tashlhiyt Berber.</i>	<b>2012</b>

## Service & Teaching

### Organised Workshops and Colloquia

<b>Special Session at Big Team Science Conference</b> “How to do Big Team Science for ManyLanguages”	<b>2023</b>
<b>Special Session at ICPhS, Prague</b> “Changing research culture - Toward Big Team Speech Science”	<b>2023</b>
<b>Workshop for the Association for Laboratory Phonology</b> “Learn Bayesian Analysis for Speech Sciences (LearnB4SS)”	<b>2021</b>
<b>ReproducibiliTea - UiO</b>	<b>2021-2022</b>

**Phonatics – Northwestern University** 2018-2019

**Satellite workshop at Phonetics and Phonology in Europe (PaPE)** 2017  
“Statistical methods in phonetic sciences” (with Bodo WINTER)

## Teaching

**University of Oslo, Department of Linguistics and Scandinavian Studies** -2021

- “Phonetics and Phonology I” (BA, 2021-2024)
- “Phonetics and Phonology II” (BA and MA, 2021-2024)
- “Introduction to Psycholinguistics and Sociolinguistics” (BA, 2021)
- “Introduction to Statistical Analysis for Language Students” (BA and MA, 2021-2024)
- “MultiLing Summer School” (PhD, 2021)
- “Theory of Science in Linguistics” (MA, 2023-2024)
- “Better Presentations for Researchers (PhD, 2023-2024)

**Leipniz Zentrum – Allgemeine Sprachwissenschaft** 2020  
“An Introduction to Bayesian Inference using R” (one-day workshop)

**University of Osnabrück, Institute for Cognitive Sciences**  
“Toward open cognitive sciences - causes, consequences and solutions to the replication crisis” (BA and MA)  
“Advanced Bayesian data analysis” (BA and MA)  
“Tracing the mind by hand – Manual response tracking as a window into cognitive processing” (BA and MA)

**University of Cologne, SFB Prominence in Language** 2019  
“Reproducibility in the Language Sciences” (two-day workshop)

**University of Birmingham, Department of English Language and Applied Linguistics** 2018-2019, 2022, 2024  
“Birmingham Statistics for Linguists Summer School”

**Northwestern University, Department of Linguistics** 2018  
“Imitation, convergence and entrainment in speech production” (Guest lecture)

**University of Cologne, Department for Linguistics – Phonetics** 2011-2016  
“Statistics for Linguists” (BA and MA, 2016)  
“Introduction to Phonetics and Phonology” (BA, 2014, 2015, 2016)  
“Laboratory Phonology” (MA, 2012, 2013, 2014)  
“Tutorial for the Introduction to Phonetics and Phonology” (BA, 2011, 2012, 2013)

<b>RWTH Aachen University, American Studies and Romance Studies</b>	<b>2015</b>
“Regression Modeling for Linguists” (MA and PhD, two-day workshop)	
<b>University of California – Merced, Cognitive and Information Sciences</b>	<b>2014</b>
“Mathematical Cognition” (Guest lecture)	
<b>University of Cologne, Department for German Linguistics</b>	<b>2009</b>
Tutorial for the Introduction to German Linguistics (BA)	

## Outreach

<b>Kronikk in Forskerforum</b>	<b>2022</b>
“Fram for troverdig forskning” (engl. Towards credible research)	
<b>Interview with “Learning Bayesian Statistics” (Podcast)</b>	<b>2021</b>
“Bayesian Stats for the Speech & Language Sciences” <a href="https://www.learnbayesstats.com/episode/40-bayesian-stats-speech-language-sciences-allison-hilger-timo-roettger">https://www.learnbayesstats.com/episode/40-bayesian-stats-speech-language-sciences-allison-hilger-timo-roettger</a>	
<b>Interview with “Perspective Daily”</b>	<b>2020</b>
“Die Wissenschaft steckt in der Krise. So kommt sie wieder heraus”. <a href="https://perspective-daily.de/article/1285/O1rlseO5">https://perspective-daily.de/article/1285/O1rlseO5</a>	
<b>Panelist in webinar organized by the Center for Open Science</b>	<b>2019</b>
“Advocating for Change in How Science is Conducted to Level the Playing Field”. <a href="https://www.youtube.com/watch?v=3WX0gXXztIE">https://www.youtube.com/watch?v=3WX0gXXztIE</a>	

## Advising (M.A. and PhD)

<b>Elena Canamaque Varona (University of Oslo), M.A.</b>	<b>-2023</b>
Working title of M.A. thesis: “Testing the Robustness of Socially Primed Speech Perception.”	
<b>Christopher Viken (University of Oslo), M.A.</b>	<b>-2023</b>
Working title of M.A. thesis: “The Prosodic Profile of Äiwoo.”	
<b>Maria Evjen (University of Oslo), PhD</b>	<b>-2023</b>
Working title of PhD thesis: “Experimental Investigations of the Fricative Merger in East-Norwegian.”	

<b>Ali Hussein Birahimani (University of Oslo), PhD</b>	<b>-2021</b>
Working title of PhD thesis: "The Phonetics and Phonology of Transposition of Aspiration and Deaspiration: to throwback or to neutralize?"	
<b>Tomasz Bauc (University of Oslo), M.A.</b>	<b>2023</b>
Title of M.A. thesis: "Writing Systems, Distributional Properties of Writing, and Sound Symbolic Associations."	
<b>Olav Brennsæter (University of Oslo), M.A.</b>	<b>-2021</b>
Working title of M.A. thesis: "Lexical tone in Mau."	
<b>Allison Hilger (Northwestern University), PhD</b>	<b>2019</b>
Statistical consultant for predoctoral F-31 NIH fellowship: "Impaired Sensorimotor integration for prosodic production in ataxic dysarthria"	
<b>Nastassja Bremer (University of Cologne), M.A.</b>	<b>2018</b>
Title of M.A. thesis: "The Relevance of Accent Position for Intonational Learning in German Adults."	
<b>Kim Rimland (University of Cologne), M.A.</b>	<b>2018</b>
Title of M.A. thesis: "Sprecherspezifische Anpassung bei der Perzeption von Intonation"	
Outcome: Roettger & Rimland (2020, <i>Cognition</i> )	
<b>Simon Ritter (University of Cologne), M.A.</b>	<b>2014</b>
Title of M.A. thesis: "Intonation in the Absence of Voicing: the Case of Voiceless Fricatives."	
Outcome: Ritter & Roettger (2014, <i>Speech Prosody</i> )	

## Reviewing

In my reviewing and editing work I privilege open access initiatives over for-profit publishers.

**Ad-hoc reviewing for grants:** National Science Foundation (NSF), European Research Council (ERC), Marsden Fund (New Zealand), Deutsche Forschungsgemeinschaft (DFG)

**Ad-hoc reviewing for book proposal:** Chapman & Hall.

**Ad-hoc reviewing for journals:** Canadian Journal of Applied Linguistics, Cognitive Science, Frontiers in Language Science, Glossa, Glossa Psycholinguistics, International Journal of American Linguistics, Journal of Experimental Psychology: Learning, Memory and Cognition, Journal of Germanic Linguistics, Journal of Memory and Language, Journal of Neuropsychiatry, Journal of Phonetics, Journal of the Acoustical Society of America (JASA), Journal of the International Phonetic Association, Journal of the Southeast Asian Linguistics Society, Laboratory Phonology, Language, Language and Speech, Language Sciences, Phonology, Nature Human Behavior, Psychological Methods, Psychological Review, Second Language Research.

**Ad-hoc reviewing for conferences:** International Seminar on Speech Production (ISSP), Old World Conference on Phonology (OCP), International Congress of Phonetic Sciences (ICPhS), Annual Conference of the Cognitive Science Society (CogSci), Interspeech, Phonetics and Phonology in Europe (PaPE), LabPhon, Speech Prosody.

## Chairing & Committee work

<b>Behavior Research Methods</b> Consulting editor	<b>-2024</b>
<b>University of Oslo, Department of Linguistic and Scandinavian Studies</b> Subject coordinator for General Linguistics <i>Tasks include coordination of teaching resources, communication between students, teachers and leadership, evaluation of suitability of external coursework for MA candidates, etc.</i>	<b>-2023</b>
<b>ManyLanguages Consortium</b> Initiating member and chair of the leadership board <i>Creation of infrastructure, communication channels and website; Definition of organisational structure, including personnel election mechanisms, study selection mechanisms, role definitions and code of conduct; Recruitment of leadership team and members.</i>	<b>-2023</b>
<b>University of Oslo, Department of Linguistic and Scandinavian Studies</b> Member of hiring committee for professorship in computational linguistics	<b>2022, 2023</b>
<b>Norway Reproducibility Network (NORRN)</b> Initiating member, Steering Committee, Research Coordinator <i>Creation of infrastructure, communication channels and website; Definition of organisational structure, including personnel election mechanisms, study selection mechanisms, role definitions and code of conduct; Oversight and project management of NORRN research projects</i>	<b>2021-2024</b>
<b>Glossa Psycholinguistics</b> Editorial board	<b>-2021</b>
<b>Language Science Press</b> Advisory board	<b>-2021</b>
<b>University of Osnabrück, Institute of Cognitive Science</b> Member of hiring committee for professorship in computational linguistics	<b>2020</b>

**The Association for Laboratory Phonology**  
Member of the web committee

**2013-2018**

## **Professional Memberships**

Member of the Association for Laboratory Phonology

**2011-**

Member of the International Phonetic Association (IPA)

**2015-2019**

Member of the Cognitive Science Society (CogSci)

**2013-2019**