Dr. Timo B. Roettger

Curriculum Vita

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

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Academic Appointments

Professor at University of Oslo **-2022**
Department of Linguistic and Scandinavian Studies

Associate Professor at University of Oslo **2020-2022**
Department of Linguistic and Scandinavian Studies

Postdoctoral researcher at University of Osnabrück **2020**
Institute of Cognitive Science, Cognitive Modeling
Group (supervisor: Michael FRANKE)

Postdoctoral researcher at Northwestern University **2018-2019**
Department of Linguistics, Prosody and Speech
Dynamics Lab (supervisor: Jennifer COLE)

Postdoctoral researcher at University of Cologne **2016-2017**
Department of Linguistics – Phonetics (supervisor:
Martine GRICE)

Education

Ph.D. in Phonetics (summa cum laude) **2016**
University of Cologne, Department of Linguistics - Phonetics
Thesis title: Stress and Intonation in Tashlhiyt Berber

M.A. in Linguistics & Phonetics (awarded with honors) **2012**
University of Cologne, Department of Linguistics
(+exchange year at the University of Edinburgh)

B.A. in Linguistics & Phonetics, German Language & Literature **2010**
University of Cologne, Department of Linguistics

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.

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

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

Manuscripts under Review / Revision

ROETTGER, Timo B, ASKELUND, Adrian D., BIRKENÆS, Viktoria, BJØRNDAL, Ludvig D., BOCHYNSKA, Agata, GLASER, Bert D., KALANDADZE, Tamara, KORBMACHER, Max, MALOVIC, Ivana, MAYOR, Julien, PAREKH, Pravesh, QUINTANA, Daniel S, HANNIGAN, Laurie J. Transparency in epidemiological analyses of cohort data - A case study of the Norwegian Mother, Father, and Child cohort study (MOBA). Submitted to *BMC Medical Research Methods.* DOI: [https://doi.org/10.1101/2024.12.05.24318481] [open data & code] [preregistered]

under review

HEYMAN, Tom, PRONIZIUS, Ektarina, LEWIS, Savannah C. […] **ROETTGER**, Timo B […] BUCHANAN, Erin Michellè. Crowdsourcing Multiverse Analyses to Explore the Impact of Different Data-processing and Analysis Decisions: A Tutorial. Submitted to *Psychological Science*.

under review

FAYTAK, Matthew, KADAVÁ, Šárka, XU, Chenzi, ÖZSOY, Onur, […], BUCHANAN Erin Michellè, ROETTGER, Timo B. […]. Big Team Science for Language Sciences- Opportunities and Challenges. Submitted to *Linguistics*.

under review

EVJEN, Maria, STAUSLAND JOHNSEN, Sverre, **ROETTGER**, Timo B. Teasing apart merged and distinct speakers. Submitted to *LabPhon* [open data & code]

under review

ETEMADY, Dara Leonard Jenssen, **ROETTGER**, Timo B. Statistical Reporting Inconsistencies in Experimental Linguistics. Submitted to *Glossa Psycholinguistics.* [open data & code]

under review

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]

invited revision

BUCHANAN, Erin, Cuccola, Kelly, […] **ROETTGER**, Timo B. […] SPAML: Semantic Priming Across Many Languages. *Nature Human Behavior.* [open data & code] [Registered Report]

accepted

Refereed Journal Articles
(shared) 1st author = 18; senior author = 5

SCHMALZ, Xenia, BREUER, Johannes, HAIM, Mario, HINDEBRANDT, Andrea, KNÖPFLE, Phillipp, LEUNG, Anna Yi, **ROETTGER**, Timo B. Let's talk about language — and its role for replicability. *Nature Humanities & Social Sciences Communications.*

2025

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. 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. *Linguistics* 59(5)*: 1227-1249. DOI: [https://doi.org/10.1515/ling-2019-0048]

ROETTGER, Timo B. Context sensitivity and failed replications in linguistics. *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]

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]

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]

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]

2020

2019

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]

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]

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]

2018

2017

2015

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]

2014

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

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 19th 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 19th 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 40th 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. & STOEBER, Mathias. Manual Response dynamics reflect rapid integration of intonational information during reference resolution. *Proceedings of 39th 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 18th 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 18th 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 7th International Conference on Speech Prosody,* Dublin. **2014**

ROETTGER, Timo B., RIDOAUNE, Rachid, & GRICE, Martine. Perception of peak placement in Tashlhiyt Berber. *Proceedings of 7th 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 35th Annual Conference of the Cognitive Science Society* (pp. 1247-1252). Austin, TX: Cognitive Science Society. **2013**

ROETTGER, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Phonetic alignment and phonological association in Tashlhiyt Berber. *Proceedings of the 21st International Congress of Acoustics*, Montréal. **2013**

ROETTGER, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Sonority and syllable weight determine tonal association in Tashlhiyt Berber. *Proceedings of 6th 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 17th 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 17th 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

MACUCH-SILVA, Vinicious, **ROETTGER**, Timo B., & FRANKE, Michael. Processing German modal particles and predicting referents in incremental interpretation. *LingCologne*, Cologne.   **2023**

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

COLE, Jennifer, & **ROETTGER**, Timo B. Interpreting pitch accents through the lens of informativity. Oral presentation at *17th Conference of Laboratory Phonology*, Vancouver.   **2020**

SÓSKUTHY, Márton, & **ROETTGER**, Timo B. Consonants are dispreferred in vocatives. Poster presentation at *17th Conference of Laboratory Phonology*, Vancouver.

ROETTGER, Timo B. & SÓSKUTHY, Márton. The evolution of vocative morphology as shaped by the tune. Poster presentation at *13th 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 19th *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 19th *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 *40th 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 *16th Conference of Laboratory Phonology,* Lisbon*.*

FRANKE, Michael & **ROETTGER**, Timo B. Speech adaptation in real-time interpretation of intonation. Poster presentation at *16th Conference of Laboratory Phonology,* Lisbon*.*

2018

BAER-HENNEY, Dinah & **ROETTGER**, Timo B. Control vs power in phonetic research. Poster presentation at *16th 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 *31th 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.

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. & STOEBER, Mathias. Manual Response dynamics reflect rapid integration of intonational information during reference resolution. Poster presentation at *39th Annual Conference of the Cognitive Science Society*. London.

ROETTGER, Timo B. & STOEBER, 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 15th Conference of Laboratory Phonology (LabPhon)*, Cornell.

2016

ROETTGER, Timo B. & BAER-HENNEY, Dinah. High frequency prototypes do not facilitate phonotactic generalizations. Poster presentation at *15th 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 20th *international congress of Parkinsons'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 20th *international congress of Parkinsons's Disease and movement disorders,* Berlin*.*

2016

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 20th *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 20th *international congress of Parkinsons's Disease and movement disorders,* Berlin*.*

ROETTGER, Timo B., BRUGGEMAN, Anna, & GRICE, Martine. Word stress in Tashlhiyt – Post lexical prominence in disguise? Oral presentation at 18th *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 18th *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 14th *Conference of Laboratory Phonology (LabPhon)*, Tokyo.

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

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

ROETTGER, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Perception of peak placement in Tashlhiyt Berber. Poster presentation at 7th *International Conference on Speech Prosody,* Dublin.

ROETTGER, Timo B. & DOMAHS, Frank. The spatial representation of grammatical number. Oral presentation at the 33rd *Annual Conference of Cognitive Science Society*, Berlin.

ROETTGER, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Phonetic alignment and phonological association in Tashlhiyt Berber. Poster presentation at 21st *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 13th *Conference of Laboratory Phonology (LabPhon)*, Stuttgart.

ROETTGER, Timo B., RIDOUANE, Rachid, & GRICE, Martine. Sonority and syllable weight determine tonal association in Tashlhiyt Berber. Oral presentation at 6th *International Conference on Speech Prosody*, Shanghai.

ROETTGER, Timo B., WINTER, Bodo, & GRAWUNDER, Sven. The robustness of Incomplete Neutralization in German. Oral presentation at 17th *International Congress of Phonetic Sciences (ICPhS)*, Hong Kong

GRICE, Martine, **ROETTGER**, Timo B., RIDOUANE, Rachid, & FOUGERON, Cécile. The association of tones in Tashlhiyt Berber. Poster presentation at 17th *International Congress of Phonetic Sciences (ICPhS)*, Hong Kong.

2014

2014

2013

2012

2011

EVERTZ, Martin, **ROETTGER**, Timo B., & PRIMUS, Beatrice. Prosodic units in language and writing: mora, syllable, and foot. Oral presentation at 7th *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

1st Workshop on Replication in the Language Sciences (WoReLa) [plenary speaker]
University of Frankfurt
    Against Replications

2025

FHI (Folkehelseinstituttet) Norway
Centre for Genetic Epidemiology and Mental Health
    One Question - Many Answers: On Researcher Degrees of Freedom and Vague Theories

2024

Stockholm University
Duality of Data and Theory Workshop, PhD Workshop on Research Skills for the Language & Cognitive Sciences
    - Clear and Credible Data Visualization in Science
    - One Question - Many Answers: On Researcher Degrees of Freedom and Vague Theories

2024

University of Cologne [short list]
Institut für Linguistik - Phonetik
    On Blue Bananas and the Future of Phonetic Research

Prosody and Beyond 2023 Workshop, Seoul [plenary speaker]
    Many Prosodies - Toward a Big Team Science approach to prosody research

2023

Universität Erfurt
Nachwuchskolleg Sprachbeherrschung
    ManyLanguages - Toward a Big Team Science approach to experimental linguistic research

CICERO - Senter for Klimaforskning
    Clear and Credible Data Visualization

FHI (Folkehelseinstituttet) Norway
Department of Children Health and Development
    Dataviz in Science - How to be Clear and Credible

LabPhon18 [plenary speaker]   **2022**
    The cart before the horse - the role of confirmation and exploration in
    Laboratory Phonology

University of Cologne, a.r.t.e.s. graduate school
    A crisis in confidence or a credibility revolution?

FHI (Folkehelseinstituttet) Norway
Department of Mental Health and Suicide
    Dataviz in Science - How to be Clear and Credible

University of Arizona
Department of Linguistics
    Not even wrong - why experimental linguists should stop testing
    hypotheses

University of Oslo   **2021**
Department of Sociology & Human Geography
    Clarity and Credibility as Guiding Principles in Data Visualization

University of Oslo
Promenta Research Center for Mental Health
    Dataviz in Science - How to be Clear and Credible

Abralin ao Vivo   **2021**
    Discussant for Jennifer Cole's talk "Unlocking prosody: Discovering
    structured variation and rich context effects"

CNRS Paris
Séminaires de Recherches en Phonétique et Phonologie
    Toward transparent and reproducible speech sciences

Aarhus University
Sounds of Language and Speech Group
    The Credibility Revolution in the Speech Sciences

Queen Mary University of London   **2020**
Department of Linguistics
    Pre-registration in Linguistic Research

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   **2019**
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
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   **2018**
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   **2017**
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
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.

University of Cologne   **2013**
Department of German Linguistics
> Unvollständige Neutralisierung – phonologisch repräsentiert oder nur ein methodisches Artefakt?

RWTH Aachen University   **2011**
Department of Neurology
> Numerical processing of number words and number inflection. Evidence from the SNARC Effect.

University of Cologne   **2010**
Department of German Linguistics
    Visuelle Prosodie - Schriftinduzierter Wortakzent

University of Cologne   **2009**
Department of German Linguistics
    Psycholinguistische Evidenz für ein gewichtssensitives Akzentsystem
    im Deutschen

Funding

Grants and Funding (successful)

ICONIC - The emergence and stabilisation of iconicity in human speech (PI)   **2024-2028**
    ~1.010.000€
    Funder: Norwegian Research Council
    Researcher Project for Experienced Scientists (PI)

UoC Graduate and Young Researcher Program (GYRP)   **2017-2018**
    University of Cologne PostDoc research grant for "TraMOUS –   *49,000€*
    Tracking Hand Movements to Unravel the Dynamics of Speech
    Processing".

German Academic Exchange Service (DAAD)   **2016**
    Travel grant for participation at the 15th Conference of Laboratory   *1,550€*
    Phonology (LabPhon), Cornell.

University of Cologne   **2015**
    Starting grant for "What is a category in intonation?" (together with   *5,800€*
    Martine GRICE)

a.r.t.e.s. Graduate School for the Humanities, UoC   **2015**
    Travel grant for fieldwork on Tashlhiyt Berber in Agadir, Morocco.   *950€*

German Academic Exchange Service (DAAD)   **2014**
    Travel grant for visiting stay at Department for Cognitive and   *1,250€*
    Information Sciences, University of California, Merced.

a.r.t.e.s. Graduate School for the Humanities, UoC   **2014**
    Travel grant for participation at the 14th *Conference of Laboratory*   *1,650€*
    Phonology (LabPhon), Tokyo.

a.r.t.e.s. Graduate School for the Humanities, UoC   **2013**
    Travel grant for fieldwork on Tashlhiyt Berber in Agadir, Morocco.   *750€*

a.r.t.e.s. Graduate School for the Humanities, UoC **2013**
  Travel grant for participation at the 21st *International Congress on* *1,200€*
  Acoustics (ICA), Montréal.

German Academic Scholarship Foundation ("Studienstiftung") **2012**
  Travel grant for participation at the 6th *International Conference on* *800€*
  Speech Prosody, Shanghai, 2012

German Academic Scholarship Foundation ("Studienstiftung") **2011-2012**
  Exchange grant for academic exchange year at the School of *5,000€*
  Philosophy, Psychology and Language Sciences, University of
  Edinburgh, 2011-2012

German Academic Scholarship Foundation ("Studienstiftung") **2011**
  Travel grant for participation at the 17th *International Congress of* *800€*
  Phonetic Sciences (ICPhS), Hong Kong, 2011

Grants and Funding (pending / <u>not</u> successful)

Center for Research on Deception (CRED.it) (center co-lead) **2025**
  Funder: Norwegian Research Council **in prep.**
  Center of Excellence (together with Ingrid Falkum)

RRROUGH - The nature of haptic iconicity in speech (Co-PI) **2025**
  Funder: UK Research and Innovation / Norwegian Research Council **in prep.**
  Money Follows Cooperation (Co-PI together with Bodo Winter,
  University of Birmingham)

REPLICLING - Toward a replication culture in experimental **2022**
linguistics (PI) **unsuccessful**
  Funder: Norwegian Research Council
  Research Project for Early Career Researcher (FRIPRO)

PROBINT - Probabilistic integration and adaptation of prosodic **2016**
cues to reference resolution (PI) **unsuccessful**
  Funder: German Research Council
  Research Project for Early Career Researcher

Scholarships

a.r.t.e.s. Graduate School for the Humanities, UoC **2013-2016**
  Full PhD scholarship for 39 months, University of Cologne *49,000€*

German Academic Scholarship Foundation ("Studienstiftung")   **2011-2012**
  Full student scholarship, 2011-2012   *4,500€*

Awards

IPA Student Award at ICPhS, Glasgow   **2015**
  Paper: ROETTGER, BRUGGEMAN, & GRICE. *Word stress in Tashlhiyt –
  Post lexical prominence in disguise*.

Faculty Prize of the Humanities, University of Cologne   **2013**
  Awarded for outstanding M.A. thesis
  Title of thesis: *Incomplete Neutralization - A cognitive artifact of
  lexical co-activation?*

Best Student Paper Award at Speech Prosody, Shanghai   **2012**
  Paper: ROETTGER, RIDOUANE, & GRICE. *Sonority and syllable weight
  determine tonal association in Tashlhiyt Berber.*

Service & Teaching

Organised Workshops and Colloquia

Special Session at Big Team Science Conference   **2023**
  "How to do Big Team Science for ManyLanguages"

Special Session at ICPhS, Prague   **2023**
  "Changing research culture - Toward Big Team Speech Science"

Workshop for the Association for Laboratory Phonology   **2021**
  "Learn Bayesian Analysis for Speech Sciences (LearnB4SS)"

ReproducibiliTea - UiO   **2021-2022**

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)

"Advanced topics in Phonetics and Phonology" (BA and MA, 2021-2025)

"Introduction to Psycholinguistics and Sociolinguistics" (BA, 2021)

"Introduction to Statistical Analysis for Language Students" (BA, MA, PhD, 2021-2025)

"Advanced Statistical Analysis for Language Students" (BA, MA, PhD, 2025-)

"MultiLing Summer School on Open Science" (PhD, 2021)

"Theory of Science in Linguistics" (MA, 2023-2024)

"Better Presentations for Researchers (PhD, 2023-2025)

Leipniz Zentrum – Allgemeine Sprachwissenschaft   **2020**

"An Introduction to Bayesian Inference using R" (one-day workshop)

University of Osnabrück, Institute for Cognitive Sciences   **2020**

"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)

RWTH Aachen University, American Studies and Romance Studies   **2015**
> "Regression Modeling for Linguists" (MA and PhD, two-day workshop)

University of California – Merced, Cognitive and Information Sciences   **2014**
> "Mathematical Cognition" (Guest lecture)

University of Cologne, Department for German Linguistics   **2009**
> Tutorial for the Introduction to German Linguistics (BA)

Outreach

Kronikk in Forskerforum   **2022**
> "Fram for troverdig forskning" (engl. Towards credible research)
> https://www.forskerforum.no/fram-for-troverdig-forskning/

Interview with "Learning Bayesian Statistics" (Podcast)   **2021**
> "Bayesian Stats for the Speech & Language Sciences"
> https://www.learnbayesstats.com/episode/40-bayesian-stats-speech-language-sciences-allison-hilger-timo-roettger

Interview with "Perspective Daily"   **2020**
> "Die Wissenschaft steckt in der Krise. So kommt sie wieder heraus".
> https://perspective-daily.de/article/1285/O1rlseO5

Panelist in webinar organized by the Center for Open Science   **2019**
> "Advocating for Change in How Science is Conducted to Level the Playing Field". https://www.youtube.com/watch?v=3WX0gXXztlE

Advising (M.A. and PhD)

Elena Canamaque Varona (University of Oslo), M.A.   **2024**
> Title of M.A. thesis: "The effect of priming on speech perception."

Christopher Viken (University of Oslo), M.A.   **2024**
> Working title of M.A. thesis: "The Prosodic Profile of Äiwoo."

Olav Brennsæter (University of Oslo), M.A.   **2024**
> Working title of M.A. thesis: "Lexical tone in Mau."

Maria Evjen (University of Oslo), PhD   **-2023**
>   Working title of PhD thesis: "Experimental Investigations of the
>   Fricative Merger in East-Norwegian."

Ali Hussein Birahimani (University of Oslo), PhD   **-2021**
>   Working title of PhD thesis: "The Phonetics and Phonology of
>   Transposition of Aspiration and Deaspiration: to throwback or to
>   neutralize?"

Tomasz Bauc (University of Oslo), M.A.   **2023**
>   Title of M.A. thesis: "Writing Systems, Distributional Properties of
>   Writing, and Sound Symbolic Associations."

Allison Hilger (Northwestern University), PhD   **2019**
>   Statistical consultant for predoctoral F-31 NIH fellowship: "Impaired
>   Sensorimotor integration for prosodic production in ataxic dysarthria"

Nastassja Bremer (University of Cologne), M.A.   **2018**
>   Title of M.A. thesis: "The Relevance of Accent Position for
>   Intonational Learning in German Adults."

Kim Rimland (University of Cologne), M.A.   **2018**
>   Title of M.A. thesis: "Sprecherspezifische Anpassung bei der
>   Perzeption von Intonation"
>
>   Outcome: Roettger & Rimland (2020, *Cognition*)

Simon Ritter (University of Cologne), M.A.   **2014**
>   Title of M.A. thesis: "Intonation in the Absence of Voicing: the Case of
>   Voiceless Fricatives."
>
>   Outcome: Ritter & Roettger (2014, *Speech Prosody*)

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

Behavior Research Methods   **-2024**
 Consulting editor

University of Oslo, Department of Linguistic and Scandinavian   **-2023**
Studies

 Subject coordinator for General Linguistics
  *Tasks include coordination of teaching resources, communication
  between students, teachers and leadership, evaluation of suitability of
  external coursework for MA candidates, etc.*

ManyLanguages Consortium   **-2023**

 Initiating member and chair of the leadership board
  *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.*

University of Oslo, Department of Linguistic and Scandinavian   **2022, 2023**
Studies

 Member of hiring committee for professorship in computational

 linguistics

Norway Reproducibility Network (NORRN)   **2021-2024**
 Initiating member, Steering Committee, Research Coordinator
  *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*

Glossa Psycholinguistics   **-2021**
 Editorial board

Language Science Press   **-2021**
 Advisory board

University of Osnabrück, Institute of Cognitive Science   **2020**
    Member of hiring committee for professorship in computational
    linguistics

The Association for Laboratory Phonology   **2013-2018**
    Member of the web committee

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**