

# JUN.-PROF. DR. TITUS VON DER MALSBURG

## CURRICULUM VITAE

---

|          |   |           |  |
|----------|---|-----------|--|
| Address: | Institute of Linguistics<br>University of Stuttgart<br>Keplerstraße 17<br>70174 Stuttgart | Homepage: | tmalsburg.github.io<br>GitHub: github.com/tmalsburg<br>OSF: osf.io/pfkez<br>OCRID: orcid.org/0000-0001-5925-5145 |
| E-mail:  | titus.von-der-malsburg@ling.uni-stuttgart.de  |           |  |

---

## Academic employment

|              |   |
|--------------|---|
| 2021 –       | <b>University of Stuttgart</b> , Assistant Professor, tenure-track<br>Institute of Linguistics  |
| 2017 – 2022  | <b>Massachusetts Institute of Technology</b> , Research Affiliate<br>Department Brain and Cognitive Sciences  |
| 2018 – 2021  | <b>University of Potsdam</b> , Researcher and Lecturer<br>Department of Linguistics   |
| 04 – 08/2019 | – <b>Parental leave</b> –   |
| 2016 – 2018  | <b>University of Potsdam</b> , Visiting Professor for Psycho- and Neurolinguistics<br>Department of Linguistics   |
| 2014 – 2016  | <b>UC San Diego</b> , Research Fellow<br>Department of Psychology, Department of Linguistics<br>Funded through two-year grant awarded to my by the Alexander von<br>Human Foundation<br>Supervisors: Keith Rayner, Roger Levy |
| 2014         | <b>University of Oxford</b> , Research Associate<br>St John's College, Department of Experimental Psychology<br>Supervisor: Kate Nation   |
| 2012 – 2013  | <b>University of Potsdam</b> , Postdoctoral Researcher<br>DFG Research Group 868: <i>Mind and Brain Dynamics</i><br>Supervisors: Shravan Vasishth, Frank Rösler   |

## Education

|             |  |
|-------------|--|
| 2008 – 2012 | <b>Dr. phil. in Cognitive Science</b> , grade: summa cum laude<br>University of Potsdam<br>Advisors: Shravan Vasishth, Reinhold Kliegl                                 |
| 2009        | Summer School on Embodied Language Games and Construction<br>Grammar, Cortona, Italy   |
| 2008        | 15th International Summer School in Cognitive Science, New Bulgarian<br>University in Sofia, Bulgaria  |
| 2005, 2006  | Interdisciplinary college, spring school on neurobiology, neuroinformatics,<br>cognitive science, artificial intelligence, robotics, and philosophy, Günne,<br>Germany |
| 2005 – 2008 | Diploma program Computational Linguistics<br>University of Potsdam   |

|             |   |
|-------------|---|
| 2003 – 2005 | B.A. in Computational Linguistics, grade: very good<br>University of Tübingen<br>Advisor: Frank Richter |
| 2001 – 2003 | Computational Linguistics, Mathematics, Computer Science (informal)<br>University of Heidelberg         |

## Media coverage

- New York Times (25.1.2020): *She's the Next President. Wait, Did You Read That Right?*
- In Her Words, New York Times newsletter on women, gender and society (4.2.2020): *Surprise! Language is sexist.*
- WNYC Studios, The Takeaway: America's weekday conversation (podcast, 29.1.2020): *Could "She" Be President? A Look at Pronoun Bias in Politics*
- MIT News (8.1.2020): *"She" goes missing from presidential language.* Also reported by ScienceDaily, AAAS EurekaAlert!, and Phys.org.
- Kunstjahr 2013 – Die Zeitschrift, die Bilanz zieht, Lindinger + Schmid. Article about my science/art cross-over project with sound artist Christoph Illing.

## Editor and reviewer

### *Journal editor:*

1. Associate Editor at *Language* (2020–)

### *Reviewer for funding agencies:*

1. French National Research Agency (ANR)
2. Israel Science Foundation (ISF)
3. Swiss National Science Foundation (SNF)
4. UK Economic and Social Research Council (ESRC)
5. UK Arts and Humanities Research Council (AHRC)
6. US National Science Foundation (NSF)

### *Reviewer for scientific journals:*

1. Behavior Research Methods
2. Cognitive Science
3. Cortex
4. Dialogue and Discourse
5. Discourse Processes
6. Frontiers in Psychology
7. Glossa: A journal of general linguistics
8. International Journal of Human-Computer Studies
9. Journal of Experimental Psychology: General
10. Journal of Experimental Psychology: Human Perception and Performance
11. Journal of Experimental Psychology: Learning, Memory, and Cognition
12. Journal of Eye Movement Research
13. Journal of Memory and Language
14. Laboratory Phonology: Journal of the Association for Laboratory Phonology

15. Language, Cognition, and Neuroscience
16. Memory and Cognition
17. Nature: Scientific Reports
18. NeuroImage
19. Neuropsychologia
20. Open Mind
21. PeerJ – Section Brain and Cognition
22. PLOS|ONE
23. Quarterly Journal of Experimental Psychology
24. Science
25. Scientific Studies of Reading
26. Topics in Cognitive Science
27. Visual Cognition

#### *Program committee for conferences*

1. CogSci: Conference of the Cognitive Science Society

#### *Reviewer for conferences:*

1. ACL: Annual Meeting of the Association for Computational Linguistics
2. AMLaP: Architectures and Mechanisms for Language Processing
3. AMLaP Asia: Architectures and Mechanisms for Language Processing, Asian edition
4. CMCL: Cognitive Modeling and Computational Linguistics
5. COLING: International Conference on Computational Linguistics
6. CogSci: Conference of the Cognitive Science Society
7. CUNY: Conference on Human Sentence Processing
8. DETEC: Discourse Expectations: Theoretical, Experimental, and Computational perspectives
9. Linguistic Evidence
10. LSA: Linguistic Society of America
11. xCoAx: Computation, Communication, Aesthetics, and X

### Conferences and workshops organized

- |      |   |
|------|---|
| 2023 | <i>Workshop on Predicting Reading Comprehension From Eye Movements</i> . Co-organised with Lena Jäger at University of Zürich.                                |
| 2020 | <i>Architectures and Mechanisms for Language Processing, AMLaP 2020</i> . University of Potsdam. Co-chaired with Isabell Wartenburger and Shravan Vasishth.   |
| 2018 | <i>Designing experiments with Python and OpenSesame</i> . Collaborative Research Center: Limits of Variability in Language (SFB 1287), University of Potsdam. |
| 2018 | <i>Eye-tracking Methods for Linguists</i> . Center for Language and Brain, Higher School of Economics, Moscow. Co-organized with Anna Laurinavichyute.        |
| 2017 | <i>Symposium on Mixed-effects Models in Cognitive Psychology</i> . ESCoP 2017, co-organised with Audrey Bürki.  |

### Collaborators

Colleagues with whom I have received project funding or with whom I have co-authored publications including conference presentations and papers under review. Alphabetical order,

last known academic affiliation.

Chelsea Ajunwa (MIT), Bernhard Angele (Bournemouth University), Roelien Bastiaanse (University of Groningen), Timo Baumann (University of Hamburg), Bruno Bianchi (University of Buenos Aires), Idan Blank (UC Los Angeles), Veronica Boyce (Stanford), Frank Burchert (University of Potsdam), Julia Carden (University of Buenos Aires), Heiner Drenhaus (Saarland University), Felix Engelmann (University of Manchester), Evelina Fedorenko (MIT), Victor Ferreira (UC San Diego), Richard Futrell (UC Irvine), Sabrina Gerth (University of Potsdam), Edward Gibson (MIT), John Hale (Franklin College of Arts and Sciences), Daniel Hole (University of Stuttgart), Christoph Illing (sound artist), Lena Jäger (University of Zürich), Virginia Jaichenco (University of Buenos Aires), Holly Joseph (University of Reading), Evelyne Lagrou (Ghent University), Mallory Leininger (Amazon), Rodrigo Loredó (University of Buenos Aires), Juan Kamienkowski (University of Buenos Aires), Reinhold Kliegl (University of Potsdam), Gregory Kobele (University of Leipzig), Karin Kukkonen (University of Oslo), Sol Lago (University of Frankfurt), Anna Laurinavichyute (University of Potsdam), Roger Levy (MIT), Anastasiya Lopukhina (Higher School of Economics, Moscow), Tina Marusch (University of Potsdam), Genevieve McArthur (Macquarie University), Paul Metzner (University of Potsdam), Marie-Christine Meyer (ZAS, Berlin), Diane Mézière (Macquarie University), Marie-Christine Meyer (ZAS, Berlin), Adam Morgan (UC San Diego), Ryan Musa (University of Illinois), Kate Nation (University of Oxford), Dario Paape (University of Potsdam), Elizabeth Pankratz (University of Edinburgh), Olga Parshina (City University of New York), Till Poppels (UC San Diego), Sidharth Ranjan (University of Stuttgart), Eric Reichle (Macquarie University), Frank Rösler (University of Hamburg), Michael Roth (University of Stuttgart), Robin Schäfer (University of Potsdam), David Schlangen (University of Potsdam), Liz Schotter (University of South Florida), Bernd Schurer (composer), Irina Sekerina (City University of New York), Cory Shain (Ohio State University), Diego Shalom (University of Buenos Aires), Nathaniel Smith (UC Berkeley), Kate Stone (University of Potsdam), Emily Troscianko (University of Oxford), Shravan Vasishth (University of Potsdam), Ruben van de Vijver (University of Düsseldorf), Leila Wehbe (Carnegie Mellon University), Eva Wittenberg (UC San Diego), Himanshu Yadav (University of Potsdam), Lili Yu (Macquarie University)

## Supervision

### *Current:*

|        |  |         |
|--------|--|---------|
| 2022 – | Dr. Sidharth Ranjan                    | Postdoc |
| 2022 – | Dr. Anna Prysłowska                    | Postdoc |
| 2023 – | Candy Afia Fosua Adusei (Linguistics)  | M.A.    |
| 2023 – | Ana Carolina Gueler (Linguistics)      | M.A.    |
| 2023 – | Takumi Kobayashi (Linguistics)         | M.A.    |
| 2023 – | Sven Naber (Computational Linguistics) | B.Sc.   |

### *Past:*

|             |  |       |
|-------------|--|-------|
| 2019 – 2022 | Dr. Diane Mézière (Clinical Linguistics) | PhD   |
| 2020 – 2021 | Lilly Roth (Psychology)                  | M.Sc. |
| 2021 – 2022 | Stephanie Lukau (Linguistics)            | B.A.  |
| 2021        | Julia Lezlow (Linguistics)               | B.A.  |
| 2021        | Elizabeth Pankratz (Cognitive Systems)   | M.Sc. |

|             |  |       |
|-------------|--|-------|
| 2017 – 2021 | Dr. Anna Laurinavichyute (Linguistics) | PhD   |
| 2017 – 2020 | Dr. Kate Stone (Linguistics)           | PhD   |
| 2019 – 2020 | Friederike Hechler (Linguistics)       | M.Sc. |
| 2019 – 2020 | Christin Schütze (Linguistics)         | M.Sc. |
| 2018        | Dr. Alexandra Lorson (Linguistics)     | M.Sc. |
| 2017 – 2018 | Robin Schäfer (Clinical Linguistics)   | M.Sc. |
| 2017 – 2018 | Kirk Gallardo (Clinical Linguistics)   | M.Sc. |
| 2013        | Dr. Dario Paape (Linguistics)          | M.Sc. |
| 2013        | Nora Kovacs (Clinical Linguistics)     | M.Sc. |
| 2013        | Ehud Avner (Computational Linguistics) | M.Sc. |

## Teaching

| Course title   | Term        |
|--|-------------|
| Research colloquium: Computational and experimental (psycho)linguistics      | Winter 2023 |
| Bayesian data analysis and causal inference in R (with S. Ranjan)            | Winter 2023 |
| Human sentence processing  | Winter 2023 |
| Psycholinguistics of neural language models (with S. Padó, S. Ranjan)        | Summer 2023 |
| Acquisition and analysis of eye-tracking data (with B. Ehinger, J. Schepers) | Summer 2023 |
| Human sentence comprehension   | Winter 2022 |
| Corpus methods in psycholinguistics (with S. Ranjan)                         | Winter 2022 |
| Introduction to statistical data analysis                                    | Summer 2022 |
| Psycholinguistics of neural language models (with S. Padó)                   | Summer 2022 |
| Acquisition and analysis of eye-tracking data (with B. Ehinger, J. Schepers) | Winter 2021 |
| Human sentence comprehension   | Winter 2021 |
| Introduction to statistical data analysis                                    | Summer 2021 |
| Human sentence comprehension   | Summer 2021 |
| Foundations of mathematics   | Winter 2020 |
| Human sentence processing  | Winter 2020 |
| Introduction to statistical data analysis                                    | Summer 2020 |
| Human sentence processing  | Summer 2020 |
| Foundations of mathematics   | Winter 2019 |
| Bayesian data analysis   | Winter 2019 |
| Eyetracking in psycholinguistic research                                     | Winter 2018 |
| Foundations of mathematics   | Winter 2018 |
| Bayesian data analysis   | Summer 2017 |
| Advanced topics in sentence processing                                       | Summer 2017 |
| Statistical data analysis (advanced): Linear modeling                        | Summer 2017 |
| Comprehension of temporarily ambiguous sentences                             | Summer 2017 |
| Agreement attraction in sentence comprehension                               | Winter 2017 |
| Colloquium in sentence comprehension   | Winter 2017 |
| Introduction to statistical data analysis                                    | Winter 2017 |
| Comprehension of relative clauses  | Winter 2017 |
| Advanced topics in sentence processing                                       | Summer 2017 |
| Introduction to statistical data analysis                                    | Summer 2017 |
| Advanced statistical data analysis: Linear modeling                          | Summer 2017 |
| Comprehension of temporarily ambiguous sentences                             | Summer 2017 |

Continued on next page

Continued from previous page

| Course title                                   | Term        |
|--|-------------|
| Agreement attraction in sentence comprehension | Winter 2016 |
| Advanced topics in sentence comprehension      | Winter 2016 |
| Scientific computing in R                      | Winter 2016 |
| Comprehension of relative clauses              | Winter 2016 |
| Advanced topics in psycholinguistics           | Summer 2013 |

## Memberships

- Free Software Foundation (FSF)
- German Association of University Professors and Lecturers (DHV)
- German Linguistic Society (DGfS)
- Linguistic Society of America (LSA)
- Society of the Fellows of the Alexander von Humboldt Foundation (DGH)

## Publications

### *Submitted manuscripts:*

Hole, D., & von der Malsburg, T. (2023). *Patterns in the phonology of Mandarin Chinese: Basic color terms and beyond* [Under review].

Laurinavichyute, A., & von der Malsburg, T. (2023). *Agreement attraction in grammatical sentences and the role of the task* [Under review].

Pankratz, E., von der Malsburg, T., & Vasishth, S. (2022b). *Shannon entropy is a more comprehensive and principled morphological productivity measure than the standard alternatives* [Under review].

### *Journal articles:*

Bianchi, B., Loredó, R., da Fonseca, M., Carden, J., Jaichenco, V., von der Malsburg, T., Shalom, D. E., & Kamienkowski, J. (2023). Neural bases of predictions during natural reading of known statements: An electroencephalography and eye movements co-registration study. *Neuroscience*, 519, 131–146. <https://doi.org/10.1016/j.neuroscience.2023.03.024>

Mézière, D. C., Yu, L., McArthur, G., Reichle, E. D., & von der Malsburg, T. (2023). Scanpath regularity as an index of reading comprehension. *Scientific Studies of Reading*, 0(0), 1–22. <https://doi.org/10.1080/10888438.2023.2232063>

Mézière, D. C., Yu, L., Reichle, E. D., von der Malsburg, T., & McArthur, G. (2023). Using eye-tracking measures to predict reading comprehension. *Reading Research Quarterly*, 58(3), 425–449. <https://doi.org/10.1002/rrq.498>

Laurinavichyute, A., & von der Malsburg, T. (2022). Semantic attraction in sentence comprehension. *Cognitive Science*, 46(2), e13086. <https://doi.org/10.1111/cogs.13086>

Parshina, O., Sekerina, I., Lopukhina, A., & von der Malsburg, T. (2022). Monolingual and bilingual reading strategies in Russian: An exploratory scanpath analysis. *Reading Research Quarterly*, 57(2). <https://doi.org/10.1002/rrq.414>

Stone, K., Vasishth, S., & von der Malsburg, T. (2022). Does entropy modulate the prediction of German long-distance verb particles? *PLOS ONE*.

- Wehbe, L., Blank, I. A., Shain, C., Futrell, R., Levy, R., von der Malsburg, T., Smith, N., Gibson, E., & Fedorenko, E. (2021). Incremental language comprehension difficulty predicts activity in the language network but not the multiple demand network. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhab065>
- von der Malsburg, T., Poppels, T., & Levy, R. P. (2020). Implicit gender bias in linguistic descriptions for expected events: The cases of the 2016 United States and 2017 United Kingdom elections. *Psychological Science*, 31(2), 115–128. <https://doi.org/10.1177/0956797619890619>
- Morgan, A. M., von der Malsburg, T., Ferreira, V. S., & Wittenberg, E. (2020). Shared syntax between comprehension and production: Multi-paradigm evidence that resumptive pronouns hinder comprehension. *Cognition*, 205, 104417. <https://doi.org/10.1016/j.cognition.2020.104417>
- Paape, D., Vasishth, S., & von der Malsburg, T. (2020). Quadruplex negatio invertit? The on-line processing of depth charge sentences. *Journal of Semantics*, 37(4), 509–555. <https://doi.org/10.1093/jos/ffaa009>
- Stone, K., von der Malsburg, T., & Vasishth, S. (2020b). The effect of decay and lexical uncertainty on processing long-distance dependencies. *PeerJ*, 8:e10438. <https://doi.org/10.31219/osf.io/xrm43>
- Schotter, E., Leininger, M., & von der Malsburg, T. (2018). When your mind ignores what your eyes see: How forced fixations lead to comprehension illusions in reading. *Psychonomic Bulletin & Review*, 25(5), 1884–1890. <https://doi.org/10.3758/s13423-017-1356-y>
- Schotter, E., von der Malsburg, T., & Leininger, M. (2018). Forced fixations, trans-saccadic integration, and word recognition: Evidence for a hybrid mechanism of saccade triggering in reading. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 45(5), 677–688. <https://doi.org/10.1037/xlm0000617>
- von der Malsburg, T., & Angele, B. (2017). False positives and other statistical errors in standard analyses of eye movements in reading. *Journal of Memory and Language*, 94, 119–133. <https://doi.org/10.1016/j.jml.2016.10.003>
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2016). The importance of reading naturally: Evidence from combined recordings of eye movements and electric brain potentials. *Cognitive Science*, 41(S6), 1232–1263. <https://doi.org/10.1111/cogs.12384>
- von der Malsburg, T., Kliegl, R., & Vasishth, S. (2015). Determinants of scanpath regularity in reading. *Cognitive Science*, 39(7), 1675–1703. <https://doi.org/10.1111/cogs.12208>
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2015). Brain responses to world-knowledge violations: A comparison of stimulus- and fixation-triggered event-related potentials and neural oscillations. *Journal of Cognitive Neuroscience*, 27(5), 1017–1028. [https://doi.org/10.1162/jocn\\_a\\_00731](https://doi.org/10.1162/jocn_a_00731)
- von der Malsburg, T., & Vasishth, S. (2013). Scanpaths reveal syntactic underspecification and reanalysis strategies. *Language and Cognitive Processes*, 28(10), 1545–1578. <https://doi.org/10.1080/01690965.2012.728232>
- Vasishth, S., von der Malsburg, T., & Engelmann, F. (2013). What eye movements can tell us about sentence comprehension. *Wiley Interdisciplinary Reviews: Cognitive Science*, 4(2), 125–134. <https://doi.org/10.1002/wcs.1209>
- Marusch, T., von der Malsburg, T., Bastiaanse, R., & Burchert, F. (2012). Tense morphology in German agrammatism: The production of regular, irregular and mixed verbs. *The Mental Lexicon*, 7(3), 351–380. <https://doi.org/10.1075/ml.7.3.05mar>
- von der Malsburg, T., & Vasishth, S. (2011c). What is the scanpath signature of syntactic reanalysis? *Journal of Memory and Language*, 65(2), 109–127. <https://doi.org/10.1016/j.jml.2011.02.004>

*Proceedings articles:*

- Ranjan, S., & von der Malsburg, T. (2023). A bounded rationality account of dependency length minimization in Hindi. In M. Goldwater, F. Anggoro, B. Hayes, & D. Ong (Eds.), *Proceedings of the 45th annual meeting of the cognitive science society*. Cognitive Science Society.
- Marusch, T., von der Malsburg, T., Bastiaanse, R., & Burchert, F. (2013). Tempusmorphologie bei deutschen Agrammatikern: Die Sprachproduktion von regulären, irregulären und gemischten Verben. *Spektrum Patholinguistik*, 6, 219–223.
- von der Malsburg, T., Vasishth, S., & Kliegl, R. (2012). Scanpaths in reading are informative about sentence processing. In P. B. Michael Carl & K. K. Choudhary (Eds.), *Proceedings of the First Workshop on Eye-tracking and Natural Language Processing* (pp. 37–53). The COLING 2012 organizing committee.
- von der Malsburg, T., Baumann, T., & Schlangen, D. (2009). TELIDA: A package for manipulation and visualization of timed linguistic data. *Proceedings of the SIGDIAL 2009 Conference: The 10th Annual Meeting of the Special Interest Group on Discourse and Dialogue*, 302–305.

*Conference talks:*

- Laurinavichyute, A., Yadav, H., von der Malsburg, Titus, & Vasishth, S. (2023). The role of goal in sentence processing. In M. Carreiras, C. Martin, A. Stoehr, I. Quiñones, S. Mancini, A. Carrión-Castillo, E. Kapnoula, & B. Costello (Eds.), *Proceedings of the 29th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Basque Center on Cognition, Brain, Language.
- Mézière, D., Yu, L., Reichle, E., von der Malsburg, T., & McArthur, G. (2023). Predicting recall performance from eye movements during normal reading. In R. P. Genevieve McArthur Anne Castles (Ed.), *Proceedings of the Twenty-Seventh Annual Meeting of the Society for the Scientific Study of Reading*. Society for the Scientific Study of Reading.
- Mézière, D., Yu, L., Reichle, E., von der Malsburg, T., & McArthur, G. (2022a). Scanpath regularity as a measure of reading comprehension ability. In N. McIntyre, I. Coombs, A. Peters, T. Törmänen, & L. Catrysse (Eds.), *Proceedings of the EARLI Special Interest Group on Online Measures of Learning Processes (SIG27)*. University of Southampton.
- Mézière, D., Yu, L., Reichle, E., von der Malsburg, T., & McArthur, G. (2022b). Scanpath regularity as a predictor of performance on reading comprehension assessments. In D. Barrett, V. McGowan, A. Pagan, K. Paterson, F. Proudlock, D. Souto, & M. Thomas (Eds.), *Proceedings of the 21th European Conference on Eye Movements (ECEM)*. University of Leicester.
- Pankratz, E., von der Malsburg, T., & Vasishth, S. (2022a). An entropy-based approach to measuring morphological productivity. In C. Maienborn & M. Averintseva-Klisch (Eds.), *44st Annual Conference of the German Linguistic Society*.
- Laurinavichyute, A., & von der Malsburg, T. (2021). Agreement attraction in grammatical sentences arises only in the good-enough processing mode. *Proceedings of Linguistic Illusions in Sentence Processing 2021*.
- Mézière, D., Yu, L., Reichle, E., von der Malsburg, T., & McArthur, G. (2020a). A comparison of three reading comprehension tests using eye movements. In C. Connor (Ed.), *Proceedings of the Twenty-Seventh Annual Meeting of the Society for the Scientific Study of Reading*. Society for the Scientific Study of Reading.
- Parshina, O., Sekerina, I., Lopukhina, A., & von der Malsburg, T. (2020). Reading strategies in monolingual adults and children vs. bilingual heritage and L2 speakers of Russian: A scanpath analysis. In T. von der Malsburg, S. Vasishth, & I. Wartenburger (Eds.),



- Proceedings of the 26th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Universität Potsdam.
- Boyce, V., von der Malsburg, T., Poppels, T., & Levy, R. (2019b). Remember ‘him’, forget ‘her’: Gender bias in the comprehension of pronominal referents. In E. Colunga, A. Kim, L. Michaelis, & B. Narasimhan (Eds.), *Proceedings of the 32th Annual CUNY Conference on Human Sentence Processing*. University of Colorado Boulder.
- Stone, K., Vasishth, S., & von der Malsburg, T. (2019a). Comprehenders generate long-distance predictions during reading: Erp evidence from verb-particle constructions. In M. Whelpton, J. Jalbert, A. Beretta, S. Sigurjónsdóttir, Þ. Eyþórsson, Ó. Jóhannesson, A. Shaw, & Í. E. Nowenstein (Eds.), *Proceedings of Psycholinguistics in Iceland – Parsing and Prediction*. University of Iceland.
- Morgan, A., von der Malsburg, T., Ferreira, V., & Wittenberg, E. (2018b). This is the structure that we wonder why anyone produces it: Resumptive pronouns in English hinder comprehension. In M. Pickering, M. Crocker, R. Hartsuiker, V. Ferreira, H. Branagan, & R. Mishra (Eds.), *Proceedings of the 1th Architectures and Mechanisms for Language Processing Conference - Asia*. University of Hyderabad.
- Morgan, A., von der Malsburg, T., Ferreira, V., & Wittenberg, E. (2018d). This is the structure that we wonder why anyone produces it: Resumptive pronouns in English hinder sentence comprehension. *California Meeting on Psycholinguistics (CAMP)*.
- von der Malsburg, T., Poppels, T., & Levy, R. (2017a). The president gave her inauguration speech: Explicit belief and implicit expectations in language production and comprehension. In M. Baptista & A. Coetzee (Eds.), *91th Annual Meeting of the Linguistics Society of America*. Linguistic Society of America.
- von der Malsburg, T., Poppels, T., & Levy, R. (2017b). The president gave her inauguration speech. No, they didn’t! The interaction of explicit world knowledge, implicit gender stereotypes, and discourse expectations. In G. van Bergen & J. Spenader (Eds.), *Proceedings of Discourse Expectations: Theoretical, Experimental and Computational perspectives (DETEC 2017)*. Max Planck Institute for Psycholinguistics.
- von der Malsburg, T., Poppels, T., & Levy, R. (2017c). The president will give her inauguration speech: Explicit belief and implicit expectations in language production and comprehension [Talk on Youtube: <https://youtu.be/KbmXYgqqydQ?t=14292>]. In E. Gibson, I. Blank, E. Fedorenko, R. Futrell, M. Kline, & R. Ryskin (Eds.), *Proceedings of the 30th Annual CUNY Conference on Human Sentence Processing*. Massachusetts Institute of Technology.
- Schotter, E., Leininger, M., & von der Malsburg, T. (2017). Parafoveal and foveal information serve different purposes in reading: Parafoveal is used for saccade programming, foveal for comprehension. In E. Gibson, I. Blank, E. Fedorenko, R. Futrell, M. Kline, & R. Ryskin (Eds.), *Proceedings of the 30th Annual CUNY Conference on Human Sentence Processing*. Massachusetts Institute of Technology.
- Schotter, L., Leininger, M., & von der Malsburg, T. (2017). The impact of forced fixations on word recognition: Dissociation of oculomotor behavior and linguistic processing. In H. Deubel, A. Nuthmann, S. Martinez-Conde, R. Radach, S. Everling, & U. Ettinger (Eds.), *Proceedings of the 19th European Conference on Eye Movements (ECM)*. Journal of Eye Movement Research.
- Angele, B., & von der Malsburg, T. (2016). Multiple comparisons and false positive rates in eye tracking studies of reading behaviour. In M. T. Bajo (Ed.), *Proceedings of the International Meeting of the Psychonomic Society* (p. 112). Psychonomic Society.
- Angele, B., & von der Malsburg, T. (2015b). False-positive rates in eyetracking studies with multiple dependent measures. In M. Perea, M. Vergara-Martínez, E. M. Rosa Martínez,

- P. Tejero, J. Roca Ruíz, I. Fajardo, L. Salmerón, & R. Abu Mallouh (Eds.), *Proceedings of the 12th Symposium of Psycholinguistics*. Universitat de Valencia.
- von der Malsburg, T., & Angele, B. (2015b). The rules of statistics make no exception for reading research: False positive rates in eyetracking studies of reading behavior. In A. Gatt & H. Mitterer (Eds.), *Proceedings of the 21th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. University of Malta.
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2014c). The relationship between regressive saccades and the P600 effect: Evidence from concurrent eye movement and EEG recordings. In N. Patson, S. Speer, L. Squires, R. Turnbull, L. Wagner, & A. Walker (Eds.), *Proceedings of the 27th Annual CUNY Conference on Human Sentence Processing*. Ohio State University.
- von der Malsburg, T., Vasishth, S., & Kliegl, R. (2013). Scanpaths in reading are tractable and informative. In K. Holmqvist, F. Mulvey, & R. Johansson (Eds.), *Proceedings of the 17th European Conference on Eye Movements (ECEM)* (p. 132). Journal of Eye Movement Research.
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2013a). Oscillatory brain dynamics differ between natural reading and serial presentation. In K. Holmqvist, F. Mulvey, & R. Johansson (Eds.), *Proceedings of the 17th European Conference on Eye Movements (ECEM)* (p. 187). Journal of Eye Movement Research.
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2013b). World-knowledge violations elicit different rhythmic brain activity in natural reading and serial presentation. In C. Freck-Mestre, F.-X. Alario, N. Nguyen, P. Blache, & C. Meunier (Eds.), *Proceedings of the 19th Architectures and Mechanisms for Language Processing Conference (AMLaP)* (p. 32). Aix-Marseille Université.
- Paape, D., Vasishth, S., & von der Malsburg, T. (2013). Local coherence and digging-in effects in German. In F. Ferreira, A. Almor, & D.-B. den Ouden (Eds.), *Proceedings of the 26th Annual CUNY Conference on Human Sentence Processing* (p. 199). University of South Carolina.
- von der Malsburg, T., Vasishth, S., & Kliegl, R. (2012). Scanpaths in reading are informative about sentence processing. In P. B. Michael Carl & K. K. Choudhary (Eds.), *Proceedings of the First Workshop on Eye-tracking and Natural Language Processing* (pp. 37–53). The COLING 2012 organizing committee.
- von der Malsburg, T., & Vasishth, S. (2011b). Strategies for dealing with attachment ambiguities in Spanish. *Proceedings of the 10th Symposium of Psycholinguistics*.
- von der Malsburg, T., & Vasishth, S. (2010). Reanalysis strategies in temporarily ambiguous sentence – A scanpath analysis. In D. Bemis, J. Brennan, S. Dikker, I. Livitz, A. Marantz, B. McElree, L. Pykkänen, & H. Rabagliati (Eds.), *Proceedings of the 23th Annual CUNY Conference on Human Sentence Processing* (p. 32). New York University.
- von der Malsburg, T., & Vasishth, S. (2009b). Individual differences in scanpaths and reanalysis strategies while reading temporarily ambiguous sentences. In S. Liversedge (Ed.), *Proceedings of the 15th European Conference on Eye Movements (ECEM)*. Journal of Eye Movement Research.
- von der Malsburg, T., Baumann, T., & Schlangen, D. (2009). TELIDA: A package for manipulation and visualization of timed linguistic data. *Proceedings of the SIGDIAL 2009 Conference: The 10th Annual Meeting of the Special Interest Group on Discourse and Dialogue*, 302–305.

*Conference posters:*

- Laurinavichyute, A., Yadav, H., von der Malsburg, T., & Vasishth, S. (2023). Agreement attraction effects depend on the processing goal. In T. Warren, S. Fraundorf, M. W. Dickey, N. Tokowicz, & S. Wiener (Eds.), *Proceedings of the 36th Annual Conference on Human Sentence Processing*. University of Pittsburgh.
- Ranjan, S., & von der Malsburg, T. (2023). A bounded rationality account of dependency length minimization in Hindi. In M. Goldwater, F. Anggoro, B. Hayes, & D. Ong (Eds.), *Proceedings of the 45th annual meeting of the cognitive science society*. Cognitive Science Society.
- Bianchi, B., Lored, R., Carden, J., Jaichenco, V., von der Malsburg, T., Shalom, D., & Kamienkowski, J. (2020). Different sources of predictions during natural reading: An EEG and eye-tracking co-registration study [Vision Sciences Society Annual Meeting 2020 abstract]. *Journal of Vision*, 20(11), 1308–1308. <https://doi.org/10.1167/jov.20.11.1308>
- Laurinavichyute, A., & von der Malsburg, T. (2020). The Lewis and Vasishth model predicts agreement and semantic attraction effects in acceptability judgments, but not in response times. In T. von der Malsburg, S. Vasishth, & I. Wartenburger (Eds.), *Proceedings of the 26th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Universität Potsdam.
- Mézière, D., Yu, L., Reichle, E., von der Malsburg, T., & McArthur, G. (2020b). Using eye movements to index reading comprehension ability. In T. von der Malsburg, S. Vasishth, & I. Wartenburger (Eds.), *Proceedings of the 26th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Universität Potsdam.
- Stone, K., von der Malsburg, T., & Vasishth, S. (2020a). Contextual constraint and the frontal post-N400 positivity: A large-sample, pre-registered ERP study. In M. Breen, B. Dillon, L. Frazier, J. Kingston, S. Momma, & A. Staub (Eds.), *Proceedings of the 33th Annual CUNY Conference on Human Sentence Processing*. University of Massachusetts, Amherst.
- Boyce, V., von der Malsburg, T., Poppels, T., & Levy, R. (2019a). Female gender is consistently under-expressed in pronoun production and under-inferred in comprehension. In R. Pancheva & K. Iskarous (Eds.), *93th Annual Meeting of the Linguistics Society of America*. Linguistic Society of America.
- Laurinavichyute, A., & von der Malsburg, T. (2019). Agreement attraction effects in the comprehension of grammatical sentences. In E. Colunga, A. Kim, L. Michaelis, & B. Narasimhan (Eds.), *Proceedings of the 32th Annual CUNY Conference on Human Sentence Processing*. University of Colorado Boulder.
- Schäfer, R., Lago, S., & von der Malsburg, T. (2019). ERP evidence of object agreement attraction in comprehension. In E. Colunga, A. Kim, L. Michaelis, & B. Narasimhan (Eds.), *Proceedings of the 32th Annual CUNY Conference on Human Sentence Processing*. University of Colorado Boulder.
- Stone, K., Vasishth, S., & von der Malsburg, T. (2019b). ERP evidence for long-distance lexical predictions in German particle verb constructions. In E. Colunga, A. Kim, L. Michaelis, & B. Narasimhan (Eds.), *Proceedings of the 32th Annual CUNY Conference on Human Sentence Processing*. University of Colorado Boulder.
- Boyce, V., von der Malsburg, T., Poppels, T., & Levy, R. (2018). Implicit gender biases in the production and comprehension of pronominal references. In F. Ferreira, J. Henderson, T. Swaab, & M. Traxler (Eds.), *Proceedings of the 31th Annual CUNY Conference on Human Sentence Processing*. UC Davis.

- Laurinavichyute, A., & von der Malsburg, T. (2018a). Agreement attraction in grammatical sentences. In F. Ferreira, J. Henderson, T. Swaab, & M. Traxler (Eds.), *Proceedings of the 31th Annual CUNY Conference on Human Sentence Processing*. UC Davis.
- Laurinavichyute, A., & von der Malsburg, T. (2018b). Semantic attraction in sentence processing. In P. Knoeferle (Ed.), *Proceedings of the 24th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Humboldt Universität Berlin.
- Laurinavichyute, A., & von der Malsburg, T. (2018c). Semantic attraction in sentence processing. In F. Ferreira, J. Henderson, T. Swaab, & M. Traxler (Eds.), *Proceedings of the 31th Annual CUNY Conference on Human Sentence Processing*. UC Davis.
- von der Malsburg, T., Boyce, V., Poppels, T., & Levy, R. (2018). Gender-biases in language processing: Explicit beliefs about event outcomes vs. implicit linguistic expectations. In P. Knoeferle (Ed.), *Proceedings of the 24th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Humboldt Universität Berlin.
- Morgan, A., von der Malsburg, T., Ferreira, V., & Wittenberg, E. (2018a). English resumptive pronouns do not help the comprehender. In P. Knoeferle (Ed.), *Proceedings of the 24th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Humboldt Universität Berlin.
- Morgan, A., von der Malsburg, T., Ferreira, V., & Wittenberg, E. (2018c). This is the structure that we wonder why anyone produces it: Resumptive pronouns in English hinder comprehension. In F. Ferreira, J. Henderson, T. Swaab, & M. Traxler (Eds.), *Proceedings of the 31th Annual CUNY Conference on Human Sentence Processing*. UC Davis.
- Schäfer, R., von der Malsburg, T., & Lago, S. (2018). Agreement attraction in german SOV structures: An ERP study. In P. Knoeferle (Ed.), *Proceedings of the 24th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. Humboldt Universität Berlin.
- Stone, K., Vasishth, S., & von der Malsburg, T. (2018). Expectations and prediction in sentence comprehension: German particle verbs as a test case. In F. Ferreira, J. Henderson, T. Swaab, & M. Traxler (Eds.), *Proceedings of the 31th Annual CUNY Conference on Human Sentence Processing*. UC Davis.
- Morgan, A., von der Malsburg, T., Ferreira, V., & Wittenberg, E. (2017). This is the structure that we wonder why anyone produces it: Resumptive pronouns in english help production but hinder comprehension. In E. Gibson, I. Blank, E. Fedorenko, R. Futrell, M. Kline, & R. Ryskin (Eds.), *Proceedings of the 30th Annual CUNY Conference on Human Sentence Processing*. Massachusetts Institute of Technology.
- Morgan, A., von der Malsburg, T., Ferreira, V., & Wittenberg, E. (2016). Resumptive pronouns hinder sentence comprehension in english. In M. Carreiras, S. Mancini, N. Molinaro, D. Davidson, S. Caffarra, & C. Martin (Eds.), *Proceedings of the 22th Architectures and Mechanisms for Language Processing Conference (AMLaP)* (p. 98). Basque Center on Cognition, Brain; Language.
- Angele, B., & von der Malsburg, T. (2015a). False positives in standard analyses of eye movements in reading. In U. Ansorge, T. Ditye, A. Florack, & H. Leder (Eds.), *Proceedings of the 18th European Conference on Eye Movements (ECEM)*. Journal of Eye Movement Research.
- von der Malsburg, T., & Angele, B. (2015a). False-positive rates in eyetracking studies with multiple dependent measures. In E. Kaiser, T. Mintz, R. Pancheva, & J. Zevin (Eds.), *Proceedings of the 28th Annual CUNY Conference on Human Sentence Processing*. University of Southern California.
- von der Malsburg, T., Vasishth, S., Metzner, P., & Levy, R. (2015). How presentation modality influences reading comprehension. In E. Kaiser, T. Mintz, R. Pancheva, & J. Zevin (Eds.), *Proceedings of the 28th Annual CUNY Conference on Human Sentence Processing*. University of Southern California.

- von der Malsburg, T., Vasishth, S., & Levy, R. (2015). The impact of reading modality on sentence comprehension. In A. Gatt & H. Mitterer (Eds.), *Proceedings of the 21th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. University of Malta.
- von der Malsburg, T., Joseph, H., Troschianko, E., Kukkonen, K., & Nation, K. (2015). The influence of foreshadowing metaphors in a crime story by Ian Fleming. In A. Gatt & H. Mitterer (Eds.), *Proceedings of the 21th Architectures and Mechanisms for Language Processing Conference (AMLaP)*. University of Malta.
- von der Malsburg, T., Metzner, P., Vasishth, S., & Rösler, F. (2014). Using co-registration of eye movements and event-related brain potentials to study the processing of anaphoric dependencies. In N. Patson, S. Speer, L. Squires, R. Turnbull, L. Wagner, & A. Walker (Eds.), *Proceedings of the 27th Annual CUNY Conference on Human Sentence Processing* (p. 187). Ohio State University.
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2014a). Different coping strategies in sentence processing can be disentangled using coregistered eye movements and brain potentials. *Proceedings of the Sixth Annual Society for the Neurobiology of Language Conference*.
- Metzner, P., von der Malsburg, T., Vasishth, S., & Rösler, F. (2014b). Recovering from syntactic and semantic violations: The relationship between eye movements and brain responses. In M. Corley, H. Rabagliati, M. Nieuwland, P. Sturt, M. Pickering, & A. Martin (Eds.), *Proceedings of the 20th Architectures and Mechanisms for Language Processing Conference (AMLaP)* (p. 101). University of Edinburgh.
- von der Malsburg, T., Metzner, P., Vasishth, S., & Rösler, F. (2013). Co-registration of eye movements and brain potentials as a tool for research on reading and language comprehension. In K. Holmqvist, F. Mulvey, & R. Johansson (Eds.), *Proceedings of the 17th European Conference on Eye Movements (ECOM)* (p. 462). Journal of Eye Movement Research.
- Marusch, T., von der Malsburg, T., Bastiaanse, R., & Burchert, F. (2013). Tempusmorphologie bei deutschen Agrammatikern: Die Sprachproduktion von regulären, irregulären und gemischten Verben. *Spektrum Patholinguistik*, 6, 219–223.
- Kobele, G., Lagrou, E., Engelmann, F., von der Malsburg, T., Musa, R., Gerth, S., van de Vijver, R., & Hale, J. (2012). Incremental processing difficulty in cross-serial and nested verb cluster. In G. Egidi, U. Hasson, R. Job, F. Vespignani, & R. Zamparelli (Eds.), *Proceedings of the 18th Architectures and Mechanisms for Language Processing Conference (AMLaP)* (p. 150). University of Trento.
- von der Malsburg, T., Kliegl, R., & Vasishth, S. (2012). Determinants of scanpath regularity in reading. In D. Bradley, E. Fernández, & J. D. Fodor (Eds.), *Proceedings of the 25th Annual CUNY Conference on Human Sentence Processing* (p. 82). CUNY Graduate School; University Center.
- von der Malsburg, T., & Vasishth, S. (2011a). Eye-movement strategies for dealing with garden-path sentences. In A. Fernald, M. C. Frank, D. Jurafsky, I. A. Sag, & T. Wasow (Eds.), *Proceedings of the 24th Annual CUNY Conference on Human Sentence Processing* (pp. 205–206). Stanford University.
- von der Malsburg, T., Kliegl, R., & Vasishth, S. (2011). A scanpath measure reveals effects of age of reader and syntactic complexity of sentences. In F. Vitu, E. Castet, & L. Goffart (Eds.), *Proceedings of the 16th European Conference on Eye Movements (ECOM)* (p. 254). Journal of Eye Movement Research.
- Vasishth, S., Drenhaus, H., & von der Malsburg, T. (2010). Integration difficulty and expectation-based syntactic comprehension. In D. Bemis, J. Brennan, S. Dikker, I. Livitz, A. Marantz, B. McElree, L. Pykkänen, & H. Rabagliati (Eds.), *Proceedings of the 23th Annual CUNY Conference on Human Sentence Processing* (p. 111). New York University.

- von der Malsburg, T., & Vasishth, S. (2009a). Analyzing spatio-temporal patterns in eye movements: A method and software. In M. Traxler & T. Swaab (Eds.), *Proceedings of the 22th Annual CUNY Conference on Human Sentence Processing*. University of California, Davis.
- von der Malsburg, T. (2009). Choice of saccade detection algorithm has a considerable impact on eye tracking measures. In S. Liversedge (Ed.), *Proceedings of the 15th European Conference on Eye Movements (ECEM)*. Journal of Eye Movement Research.
- von der Malsburg, T., & Vasishth, S. (2009c). Readers use different strategies to recover from garden-paths. *Proceedings of the Summer School on Embodied Language Games and Construction Grammar*.
- von der Malsburg, T., & Vasishth, S. (2008). A new method for analyzing eye movements in reading that is sensitive to spatial and temporal patterns in sequences of fixations. In P. Gordon (Ed.), *Proceedings of the 21th Annual CUNY Conference on Human Sentence Processing* (p. 118). University of North Carolina at Chapel Hill.
- von der Malsburg, T., & Vasishth, S. (2007). A time-sensitive similarity measure for scanpaths. In R. Kliegl & R. Engbert (Eds.), *Proceedings of the 14th European Conference on Eye Movements (ECEM)*. Journal of Eye Movement Research.

#### *Scientific data sets:*

- Rayner, K., Abbott, M. J., Schotter, E. R., Belanger, N. N., Higgins, E. C., Leininger, M., von der Malsburg, T., & Plummer, P. (2015). Keith Rayner eye movements in reading data collection. *UC San Diego Library Digital Collections*. <https://doi.org/10.6075/J0JW8BSV>

#### *Scientific software:*

- von der Malsburg, T. (2015a). Py-Span-Task: A software for testing working memory span [Published on Zenodo]. <https://doi.org/10.5281/zenodo.18238>
- von der Malsburg, T. (2015b). Scanpath: An R package for analyzing scanpaths [Published on Zenodo]. <https://doi.org/10.5281/zenodo.31800>
- von der Malsburg, T. (2015c). Saccades: An R package for detecting fixations in raw eye tracking data [Published on Zenodo]. <https://doi.org/10.5281/zenodo.31799>

#### *Artistic works:*

- Schurer, B., & von der Malsburg, T. (2017). Automatic reading (obfuscation) [Eye-tracking and sound installation.]. In L. Ribas & R. Taveira (Eds.), *Proceedings of the fifth conference on Computation, Communication, Aesthetics and X*. The xCoAx 2017 organizing committee.
- Illing, C., & von der Malsburg, T. (2015). Brain decomposition [Sound installation].
- Illing, C., & von der Malsburg, T. (2014). Brain decompositions [Performance].
- von der Malsburg, T., & Illing, C. (2014). Dem Gehirn zuhören [Sound installation part of an exhibition about science in the state of Brandenburg].
- von der Malsburg, T., & Illing, C. (2013). Decomposing electric brain potentials for audification on a matrix of speakers [Sound installation.]. In M. Verdicchio & M. Carvahais (Eds.), *Proceedings of the first conference on Computation, Communication, Aesthetics and X* (pp. 305–307). The xCoAx 2013 organizing committee.