

CURRICULUM VITAE
DR. TITUS VON DER MALSBURG

Visiting Professor
Department of Linguistics
University of Potsdam
Karl-Liebknecht-Straße 24-25
14476 Potsdam, Germany

Professional Appointments

- 2016– Visiting Professor for Psycho- and Neurolinguistics, **University of Potsdam**, Department of Linguistics.
- 2014–2016 Feodor-Lynen Research Fellow, **UC San Diego**, Department of Psychology and Department of Linguistics. Hosts: Keith Rayner, Roger Levy.
- 2014 Research Associate, **University of Oxford**, St John's College and Department of Experimental Psychology. Supervisor: Kate Nation.
- 2012–2013 Postdoctoral Researcher, **University of Potsdam**, DFG Research Group 868: Mind and Brain Dynamics. Supervisors: Shravan Vasishth, Frank Rösler.

Education

- 2012 Dr. phil., Cognitive Science, University of Potsdam. Supervisors: Shravan Vasishth, Reinhold Kliegl. Grade: **summa cum laude**
- 2005 B.A., Computational Linguistics, University of Tübingen. Supervisor: Frank Richter. Grade: **very good**

Other Professional Experience

- 1996–1998 Entrepreneur, production of industrial films and 3D-visualizations.
- 1998–2004 Consultant, development of IT systems for emergency response in cases of natural disaster.

Competitive Grants & Awards

- 2016 Travel grant awarded by the University of Potsdam, **£1,800**.
- 2014–2016 Feodor Lynen Research Fellowship for Postdoctoral Researchers, **£100,000**.
- 2014 Artist residency. Awarded to Christoph Illing and Titus von der Malsburg by the Institute for Music and Acoustics at the Center for Art and Media, Karlsruhe, Germany.
- 2008–2011 PhD scholarship, **£33,000**. Awarded by the Graduate Program for Experimental Clinical Linguistics at the University of Potsdam.
- 2008 Travel grant awarded by the University of Potsdam, **£2,000**.
- 2006 Research and Development Award of the foundation Metropolitan Area Rhein-Neckar for a emergency response system for natural hazards developed at Leiner & Wolff, GmbH.

Monographs

von der Malsburg, Titus. (2012). *Scanpath phenomena in reading: An investigation of scanpath effects in syntactic ambiguity resolution and in general reading* (Doctoral dissertation, University of Potsdam).

Refereed Articles

I am corresponding author on all articles on which I am first author and on Metzner et al. (2016).

von der Malsburg, Titus & Angele, B. (2016). False positives and other statistical errors in standard analyses of eye movements in reading. *Journal of Memory and Language*. doi:10.1016/j.jml.2016.10.003

Metzner, P., **von der Malsburg, Titus**, Vasishth, S., & Rösler, F. (2016). The importance of reading naturally: Evidence from combined recordings of eye movements and electric brain potentials. *Cognitive Science*. doi:10.1111/cogs.12384

von der Malsburg, Titus, Kliegl, R., & Vasishth, S. (2015). Determinants of scanpath regularity in reading. *Cognitive Science*, 39(7), 1675–1703. doi:10.1111/cogs.12208

Metzner, P., **von der Malsburg, Titus**, 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. doi:10.1162/jocn_a_00731

von der Malsburg, Titus & Vasishth, S. (2013). Scanpaths reveal syntactic underspecification and reanalysis strategies. *Language and Cognitive Processes*, 28(10), 1545–1578. doi:10.1080/01690965.2012.728232

Marusch, T., **von der Malsburg, Titus**, Bastiaanse, R., & Burchert, F. (2013). Tempusmorphologie bei deutschen Agrammatikern: Die Sprachproduktion von regulären, irregulären und gemischten Verben. In *Spektrum patholinguistik* (Vol. 6, pp. 219–223). Potsdam, Germany: Universitätsverlag Potsdam.

Vasishth, S., **von der Malsburg, Titus**, & Engelmann, F. (2013). What eye movements can tell us about sentence comprehension. *Wiley Interdisciplinary Reviews: Cognitive Science*, 4(2), 125–134. doi:10.1002/wcs.1209

von der Malsburg, Titus, 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). Mumbai, India: The COLING 2012 organizing committee.

Marusch, T., **von der Malsburg, Titus**, 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. doi:10.1075/ml.7.3.05mar

von der Malsburg, Titus & Vasishth, S. (2011c). What is the scanpath signature of syntactic reanalysis? *Journal of Memory and Language*, 65(2), 109–127. doi:10.1016/j.jml.2011.02.004

von der Malsburg, Titus, Baumann, T., & Schlangen, D. (2009). TELIDA: A package for manipulation and visualization of timed linguistic data. In *Proceedings of the SIGDIAL 2009 Conference: The 10th Annual Meeting of the Special Interest Group on Discourse and Dialogue* (pp. 302–305). Association for Computational Linguistics. London, UK.

Manuscripts in Preparation

Schotter, E., Leinenger, M., & Malsburg, T. von der. (2017). *When your mind ignores what your eyes see: How forced fixations lead to comprehension illusions in reading.*

von der Malsburg, Titus, Poppels, T., & Levy, R. (2016). *The president gave her inauguration speech: a large-scale natural experiment on explicit beliefs and implicit expectations in language production and comprehension.*

von der Malsburg, Titus, Metzner, P., Vasishth, S., & Rösler, F. (2015). *Investigating anaphoric dependencies using coregistration of eye movements and event-related brain potentials.*

Troscianko, E., **von der Malsburg, Titus**, Joseph, H., Kukkonen, K., & Nation, K. [Kate]. (2015). *The effect of foreshadowing metaphors in a short story by Ian Fleming.*

von der Malsburg, Titus, Vasishth, S., & Levy, R. (2015b). *How presentation format influences reading comprehension.*

Software

von der Malsburg, Titus. (2015a). Saccades: An R package for detecting fixations in raw eye tracking data. Published on Zenodo. doi:10.5281/zenodo.31799

von der Malsburg, Titus. (2015b). Py-Span-Task: A software for testing working memory span. Published on Zenodo. doi:10.5281/zenodo.18238

von der Malsburg, Titus. (2015c). Scanpath: An R package for analyzing scanpaths. Published on Zenodo. doi:10.5281/zenodo.31800

Research Data

Rayner, K., Abbott, M. J., Schotter, E. R., Belanger, N. N., Higgins, E. C., Leinenger, M., . . . Plummer, P. (2015). Keith Rayner eye movements in reading data collection. UC San Diego Library Digital Collections. doi:10.6075/J0JW8BSV

Invited Talks

11/2016	University of Osnabrück, Department of Cognitive Science
09/2015	University of Oxford, Department of Experimental Psychology
08/2015	University of Reading, School of Psychology
10/2014	UC San Diego, Department of Cognitive Science
05/2014	Bournemouth University, Department of Psychology
03/2014	University of Southampton, Centre for Vision and Cognition
01/2014	Radboud University, Nijmegen, Behavioural Science Institute
10/2013	International Symposium Developmental on Eyetracking Research in Reading, Hanover
03/2013	Center for Interdisciplinary Research, Bielefeld
03/2010	University of Massachusetts, Amherst, Department of Psychology

Refereed Conference Talks

von der Malsburg, Titus, Poppels, T., & Levy, R. (2017a). The president will give her inauguration speech: explicit belief and implicit expectations in language production and 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*. Boston, MA, USA: Massachusetts Institute of Technology.
- Schotter, E., Leinenger, M., & **von der Malsburg, Titus**. (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*. Boston, MA, USA: Massachusetts Institute of Technology.
- von der Malsburg, Titus**, Poppels, T., & Levy, R. (2017b). 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*. Austin, Texas: Linguistic Society of America.
- Angele, B. & **von der Malsburg, Titus**. (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). Granada, Spain: Psychonomic Society.
- Angele, B. & **von der Malsburg, Titus**. (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, . . . R. Abu Mallouh (Eds.), *Proceedings of the 12th symposium of psycholinguistics*. Valencia, Spain: Universitat de Valencia.
- von der Malsburg, Titus** & 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)*. Valetta, Malta: University of Malta.
- Metzner, P., **von der Malsburg, Titus**, 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*. Columbus, OH, USA: Ohio State University.
- von der Malsburg, Titus**, 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). Lund University. Lund, Sweden: Journal of Eye Movement Research.
- Metzner, P., **von der Malsburg, Titus**, 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). Lund University. Lund, Sweden: Journal of Eye Movement Research.
- Metzner, P., **von der Malsburg, Titus**, Vasishth, S., & Rösler, F. (2013b). World-knowledge violations elicit different rhythmic brain activity in natural reading and serial presentation. In C. Frenck-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). Marseilles, France: Aix-Marseille Université.
- Paape, D., Vasishth, S., & **von der Malsburg, Titus**. (2013). Local coherence and digging-in effects in german. In F. Ferreira, A. Almor, & D.-B. Ouden (Eds.), *Proceedings of the 26th annual cuny conference on human sentence processing* (p. 199). Columbia, SC, USA: University of South Carolina.
- von der Malsburg, Titus**, 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). Mumbai, India: The COLING 2012 organizing committee.

- von der Malsburg, Titus** & Vasishth, S. (2011b). Strategies for dealing with attachment ambiguities in Spanish. In *Proceedings of the 10th symposium of psycholinguistics*. Basque Center on Cognition, Brain and Language. San Sebastián, Spain.
- von der Malsburg, Titus** & 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, . . . H. Rabagliati (Eds.), *Proceedings of the 23th annual cuny conference on human sentence processing* (p. 32). New York City, NY, USA: New York University.
- von der Malsburg, Titus** & 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)*. University of Southampton. Southampton, UK: Journal of Eye Movement Research.

Refereed Conference Posters and Demos

- Morgan, A., **von der Malsburg, Titus**, 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*. Boston, MA, USA: Massachusetts Institute of Technology.
- Morgan, A., **von der Malsburg, Titus**, 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). Bizkaia Aretoa, Bilbao. Bilbao, Spain: Basque Center on Cognition, Brain and Language.
- Angele, B. & **von der Malsburg, Titus**. (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)*. University of Vienna. Vienna, Austria: Journal of Eye Movement Research.
- von der Malsburg, Titus** & 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*. Los Angeles, CA, USA: University of Southern California.
- von der Malsburg, Titus**, 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*. Los Angeles, CA, USA: University of Southern California.
- von der Malsburg, Titus**, Vasishth, S., & Levy, R. (2015a). 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)*. Valetta, Malta: University of Malta.
- von der Malsburg, Titus**, Joseph, H., Troscianko, E., Kukkonen, K., & Nation, K. [Karin]. (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)*. Valetta, Malta: University of Malta.
- Metzner, P., **von der Malsburg, Titus**, Vasishth, S., & Rösler, F. (2014a). Different coping strategies in sentence processing can be disentangled using coregistered eye movements and brain potentials. In *Proceedings of the Sixth Annual Society for the Neurobiology of Language Conference*. Amsterdam, Netherlands: Society for the Neurobiology of Language.

- Metzner, P., **von der Malsburg, Titus**, 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). Edinburgh, UK: University of Edinburgh.
- von der Malsburg, Titus**, 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). Columbus, OH, USA: Ohio State University.
- von der Malsburg, Titus**, 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 (ecem)* (p. 462). Lund University. Lund, Sweden: Journal of Eye Movement Research.
- Marusch, T., **von der Malsburg, Titus**, Bastiaanse, R., & Burchert, F. (2013). Tempusmorphologie bei deutschen Agrammatikern: Die Sprachproduktion von regulären, irregulären und gemischten Verben. In *Spektrum patholinguistik* (Vol. 6, pp. 219–223). Potsdam, Germany: Universitätsverlag Potsdam.
- Kobele, G., Lagrou, E., Engelmann, F., **von der Malsburg, Titus**, Musa, R., Gerth, S., . . . 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). Riva del Garda, Italy. Trento, Italy: University of Trento.
- von der Malsburg, Titus**, 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). New York City, NY, USA: CUNY Graduate School and University Center.
- von der Malsburg, Titus**, 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 (ecem)* (p. 254). Université de Provence, Marseilles, France. Marseilles, France: Journal of Eye Movement Research.
- von der Malsburg, Titus** & 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, CA, USA: Stanford University.
- Vasishth, S., Drenhaus, H., & **von der Malsburg, Titus**. (2010). Integration difficulty and expectation-based syntactic comprehension. In D. Bemis, J. Brennan, S. Dikker, I. Livitz, A. Marantz, B. McElree, . . . H. Rabagliati (Eds.), *Proceedings of the 23th annual cuny conference on human sentence processing* (p. 111). New York City, NY, USA: New York University.
- von der Malsburg, Titus** & 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*. Davis, CA, USA: University of California, Davis.
- von der Malsburg, Titus**. (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)*. University of Southampton. Southampton, UK: Journal of Eye Movement Research.

- von der Malsburg, Titus & Vasishth, S. (2009c).** Readers use different strategies to recover from garden-paths. In *Processings of the Summer School on Embodied Language Games and Construction Grammar*. Evolutionary Linguistics Association. Cortona, Italy.
- von der Malsburg, Titus & 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). Chapel Hill, NC, USA: University of North Caroline at Chapel Hill.
- von der Malsburg, Titus & 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)*. University of Potsdam. Potsdam, Germany: Journal of Eye Movement Research.

Teaching Experience

As instructor of record:

- Processing relative clauses, University of Potsdam, Dept. Linguistics
- Agreement attraction in sentence comprehension, University of Potsdam, Dept. Linguistics
- Multivariate data analysis, University of Potsdam, Dept. Linguistics
- Statistics in R, University of Potsdam, Dept. Linguistics
- Theories of sentence processing, University of Potsdam, Dept. Linguistics
- Empirical methods in linguistics (cotaught with Shravan Vasishth), University of Potsdam, Dept. Linguistics
- Logic programming in Prolog, University of Heidelberg, Dept. Computational Linguistics
- Practical computer science, University of Heidelberg, Dept. Computational Linguistics

As teaching assistant:

- Formal semantics, University of Potsdam, Dept. Linguistics
- Introduction to statistics, University of Heidelberg, Dept. Computational Linguistics
- Advanced programming in C, University of Heidelberg, Dept. Computational Linguistics
- Programming in Java, University of Heidelberg, Dept. Computational Linguistics

Reviewing for Funding Agencies

- US National Science Foundation (NSF)
- French National Research Agency (ANR)

Reviewing for Journals

- Cortex
- Discourse Processes
- International Journal of Human-Computer Studies
- Journal of Experimental Psychology: General
- Journal of Experimental Psychology: Human Perception and Performance
- Journal of Experimental Psychology: Learning
- Journal of Memory and Language
- Memory and Cognition
- NeuroImage
- Neuropsychologia
- PLOS|ONE

- Quarterly Journal of Experimental Psychology
- Topics in Cognitive Science

Reviewing for Conferences and Workshops

- ACL: Annual Meeting of the Association for Computational Linguistics (2009, 2016)
- AMLaP: Architectures and Mechanisms for Language Processing (2014, 2015)
- CMCL: Cognitive Modeling and Computational Linguistics, workshop at ACL (2015)
- Coling: International Conference on Computational Linguistics (2016)
- CogSci: Conference of the Cognitive Science Society (2013, 2014, 2015, 2016)
- CUNY: Conference on Human Sentence Processing (2017)
- Pre-CUNY Workshop: Events in Language and Cognition (2016)
- xCoAx: Computation, Communication, Aesthetics, and X (2014, 2015, 2016, 2017)

Graduate Supervision

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| 2012–2015 | Paul Metzner, Ph.D. thesis, psycholinguistics, co-advised with Shravan Vasishth and Frank Rösler. Title: <i>Eye Movements and Brain Responses in Natural Reading</i> |
| 2013 | Dario Paape, Masters thesis, general linguistics, co-advised with Shravan Vasishth. Title: <i>Local coherence and preemptive digging-in effects in German</i> |
| 2013 | Ehud Avner, Diploma thesis, computational linguistics, co-advised with Manfred Stede. Title: <i>Identifying translationese at the word and sub-word level</i> |
| 2013 | Nora Kovacs, Masters thesis, clinical linguistics, co-advised with Shravan Vasishth. Title: <i>Processing of relative clauses in Hungarian</i> |

Other Academic Service

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| 2016 | Speaker of the research cluster for language research, University of Potsdam |
| 2016 | Board member of the research cluster for cognitive science, University of Potsdam |
| 2011 | Member of PhD committee for McLoddy R. Kadyamusuma, University of Potsdam. |
| 2010–2012 | Selection committee for the International Program for Experimental and Clinical Linguistics, University of Potsdam. |

Collaborators

- Bernhard Angele (Bournemouth University)
- Andy Kehler (UC San Diego)
- Reinhold Kliegl (University of Potsdam)
- Mallory Leininger (Denison University)
- Roger Levy (Massachusetts Institute of Technology)
- Kate Nation (University of Oxford)
- Bruno Nicenboim (University of Potsdam)
- Frank Rösler (University of Hamburg)
- Liz Schotter, (University of South Florida)
- Emily Troscianko (University of Oxford)
- Shravan Vasishth (University of Potsdam)

- Eva Wittenberg (UC San Diego)

Research Skills

Experimental methods: Eye-tracking, event-related brain potentials, co-registration of eye movements and brain potentials, self-paced reading, grammaticality judgment studies, online experiments (Amazon Mechanical Turk), psychometric testing, computational modeling, corpus analysis, pupillometry

Statistics: Regression modeling (Bayesian and frequentist), clustering, non-parametric Monte Carlo methods, multi-dimensional scaling, mixture modeling, Bayesian cognitive modeling, scan-path analyses

Programming: R, Stan, Python, C, Java, Prolog, Lisp, HTML, JavaScript, SQL, SGML, XML, and more

Other computational: Git, GitHub, \LaTeX , Knitr, Emacs, Linux, Databases

Languages: German (native), English, French, Latin

Memberships

- Association for Psychological Science
- Linguistic Society of America
- Psychonomic Society

Outreach and Creative Works

In the performances and exhibitions listed below, electric brain potentials were “audified” using a multi-speaker sound installation. This was originally an outreach project developed for an open house event at the University of Potsdam but variants of this work were also displayed at various art venues.

Illing, C. & **von der Malsburg, Titus**. (2015). Brain decomposition. Einraumhaus C/O, Mannheim, Germany. 17–26 Apr. 2015. Sound installation.

Illing, C. & **von der Malsburg, Titus**. (2014). Brain decompositions. Sound Dome of the Centre for Art and Media (ZKM), Karlsruhe, Germany. 13 Dec. 2014. Performance.

von der Malsburg, Titus & Illing, C. (2014). Dem Gehirn zuhören. Wissenschaftsetage im Bildungsforum. Sound installation part of an exhibition about science in the state of Brandenburg.

von der Malsburg, Titus & Illing, C. (2013). Decomposing electric brain potentials for audification on a matrix of speakers. In M. Verdicchio & M. Carvalhais (Eds.), *Proceedings of the first conference on Computation, Communication, Aesthetics and X* (pp. 305–307). Sound installation. Bergamo, Italy: The xCoAx 2013 organizing committee.