# CURRICULUM VITAE

## 1 Contact Information

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| | Haus 14 |
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| | D-14476 Potsdam |

## 2 Education

| | |
|---|---|
| 2011–2017 | **PhD in Cognitive Science, University of Potsdam** |
| | Topic: Dependency resolution as a retrieval process |
| | Supervisors: Prof. Dr. Shravan Vasishth and Prof. Dr. Reinhold Kliegl |
| | Grade: *summa cum laude* |
| 2010 | M.A. in Linguistics, Tel Aviv University |
| | Topic: Processing Complex NP Islands in Hebrew |
| | Supervisors: Prof. Dr. Julia Horvath and Prof. Dr. Tal Siloni |
| | Grade: *summa cum laude* |
| 2009 | B.A Double Major, Tel Aviv University |
| | Linguistics. Grade: *summa cum laude* |
| | Sociology and Anthropology. Grade: very good |

## 3 Academic-related work

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|---|---|
| 2017– | **Postdoctoral Researcher**, University of Potsdam. |
| | PIs: Shravan Vasishth, Frank Rösler |
| 2016–2017 | Coordinator of the Master in Cognitive Systems, University of Potsdam |
| 2009–2009 | Research assistant, Tel Aviv University. Syntax and Lexicon interface. |
| | PIs: Prof. Dr. Tal Siloni and Prof. Dr. Julia Horvath |
| 2008–2009 | Research assistant, Tel Aviv University. Psycholinguistics. |
| | Assistance in experiments using E-prime and CHILDES software. |
| | PI: Prof. Dr. Ruth Berman |

# 4 Articles

## 4.1 Published in peer-reviewed journals

- Vasishth, S, **B. Nicenboim**, F. Engelmann, and F. Burchert (2019). "Computational models of retrieval processes in sentence processing". In: Trends in Cognitive Sciences. In press. DOI: 10.31234/osf.io/e4jds. eprint: https://psyarxiv.com/e4jds/.

- **Nicenboim, B**, S. Vasishth, F. Engelmann, and K. Suckow (2018). "Exploratory and confirmatory analyses in sentence processing: A case study of number interference in German". In: Cognitive Science 42.S4, pp. 1075–1100. DOI: 10.1111/cogs.12589. eprint: https://osf.io/preprints/psyarxiv/u2kqg/.

- **Nicenboim, B**, T. B. Roettger, and S. Vasishth (2018). "Using meta-analysis for evidence synthesis: The case of incomplete neutralization in German". In: Journal of Phonetics 70, pp. 39–55. DOI: 10.1016/j.wocn.2018.06.001. eprint: https://psyarxiv.com/p5a4z/.

- Vasishth, S, **B. Nicenboim**, M. E. Beckman, F. Li, and E. Kong (2018). "Bayesian data analysis in the phonetic sciences: A tutorial introduction". In: Journal of Phonetics 71, pp. 147–161. DOI: 10.1016/j.wocn.2018.07.008. eprint: https://osf.io/5pj49/.

- **Nicenboim, B.** and S. Vasishth (2018). "Models of Retrieval in Sentence Comprehension: A computational evaluation using Bayesian hierarchical modeling". In: Journal of Memory and Language 99, pp. 1 –34. DOI: 10.1016/j.jml.2017.08.004. eprint: https://arxiv.org/abs/1612.04174.

- Paape, D, **B. Nicenboim**, and S. Vasishth (2017). "Does antecedent complexity affect ellipsis processing? An empirical investigation". In: Glossa: A journal of general linguistics. 2.1, p. 71. DOI: 10.5334/gjgl.290. eprint: https://www.glossa-journal.org/articles/abstract/10.5334/gjgl.290/.

- **Nicenboim, B**, P. Logačev, C. Gattei, and S. Vasishth (2016). "When high-capacity readers slow down and low-capacity readers speed up: Working memory and locality effects". In: Frontiers in Psychology 7.280. DOI: 10.3389/fpsyg.2016.00280 . eprint: http://www.frontiersin.org/language_sciences/10.3389/fpsyg.2016.00280/abstract.

- **Nicenboim, B.** and S. Vasishth (2016). "Statistical methods for linguistic research: Foundational Ideas - Part II". In: Language and Linguistics Compass 10.11, pp. 591–613. DOI: 10.1111/lnc3.12207. eprint: https://arxiv.org/abs/1602.00245.

- Vasishth, S. and **B. Nicenboim** (2016). "Statistical Methods for Linguistic Research: Foundational Ideas - Part I". In: Language and Linguistics Compass 10.8, pp. 349–369. DOI: 10.1111/lnc3.12201. eprint: https://arxiv.org/abs/1601.01126.

- **Nicenboim, B**, S. Vasishth, C. Gattei, M. Sigman, and R. Kliegl (2015). "Working memory differences in long-distance dependency resolution". In: Frontiers in Psychology 6.312. DOI: 10.3389/fpsyg.2015.00312. eprint: http://www.frontiersin.org/language_sciences/10.3389/fpsyg.2015.00312/abstract.

## 4.2 Unpublished manuscripts

- Vasishth, S., **B. Nicenboim**, N. Chopin, and R. Ryder "Bayesian hierarchical finite mixture models of reading times: A case study". unpublished. DOI: 10.17605/OSF.IO/FWX3S.

- **Nicenboim, B.**, S. Vasishth, and F. Rösler (2019). "Are words pre-activated probabilistically during sentence comprehension? Evidence from new data and a Bayesian random-effects meta-analysis using publicly available data". DOI: 10.31234/osf.io/2atrh.

# 5 Conferences

- **Nicenboim, B.** (2019). "Bayesian inference: Obstacles and opportunities". In: 8th Biennial International Conference on the Linguistics of Contemporary English (BICLCE), Bamberg, Germany.

- Lisson, P., **B. Nicenboim**, S. Vasishth, and D. Paape (2019). "Models of retrieval in sentence comprehension in aphasia". In: StanCon. Cambridge, UK.

- Lisson, P., M. van het Nederend, D. Pregla, S. Vasishth, **B. Nicenboim**, and D. Paape (2019). "Competing models of retrieval in sentence processing: The case of aphasia". In: Architectures and Mechanisms for Language Processing (AMLaP). Institute of Cognitive Neuroscience and Centre for Language and Brain, Higher School of Economics, Russia.

- **Nicenboim, B.** (2018). "The implementation of a model of choice: The (truncated) linear ballistic accumulator". In: StanCon. Aalto University, Helsinki, Finland.

- Guerra, E., **B. Nicenboim**, and A. V. Helo (2018). "A crack in the crystall ball: Evidence against pre-activation of gender features in sentence comprehension". In: Architectures and Mechanisms for Language Processing (AMLaP). Titanic Hotel Chaussee Berlin, Germany.

- **Nicenboim, B.** and S. Vasishth (2018). "Bayesian cognitive models of memory retrieval processes: A case study". In: 51. Kongress der Deutschen Gesellschaft für Psychologie. Bayesian statistics as a coherent approach to psychologists' statistical and methodological problems. Goethe-Universität Frankfurt, Germany.

- Vasishth, S., N. Chopin, R. Ryder, and **B. Nicenboim** (2017). "Modelling dependency completion in sentence comprehension as a Bayesian hierarchical mixture process: A case study involving Chinese relative clauses". In: Proceedings of Cognitive Science Conference. London, UK. eprint: https://arxiv.org/abs/1702.00564v2.

- Vasishth, S., L. Jaeger, and **B. Nicenboim** (2017). "Feature overwriting as a finite mixture process: Evidence from comprehension data". In: Proceedings of MathPsych/ICCM Conference. Warwick, UK. eprint: https://arxiv.org/abs/1703.04081.

- Albert, A. and **B. Nicenboim** (2017). "Linking sonority with periodic energy: Preliminary findings from production and perception". In: 3rd International Workshop on Dynamic Modeling, Cologne, Germany.

- **Nicenboim, B.** and S. Vasishth (2017). "Models of Retrieval in Sentence Comprehension". In: StanCon. Columbia University New York, NY.

- **Nicenboim, B.** and S. Vasishth (2017). "Models of retrieval in sentence comprehension: A computational evaluation using Bayesian hierarchical modeling". In: Proceedings of the Annual CUNY Sentence Processing Conference. Massachusetts Institute of Technology, Boston, MA, USA.

- **Nicenboim, B.**, F. Engelmann, K. Suckow, and S. Vasishth (2016). "Number interference as predicted by cue-based retrieval". In: Architectures and Mechanisms for Language Processing (AMLaP). Bilbao, Spain.

- **Nicenboim, B.**, F. Engelmann, K. Suckow, and S. Vasishth (2015). "Fail fast or succeed slowly: Good-enough processing can mask interference effects". In: International Conference on Cognitive Modeling (ICCM).

- **Nicenboim, B.**, P. Logacev, C. Gattei, and S. Vasishth (2015). "When high-capacity readers slow down and low-capacity readers speed up: Working memory differences in unbounded dependencies". In: Proceedings of Annual CUNY Sentence Processing Conference. University of Southern California, Los Angeles, CA.

- **Nicenboim, B.**, K. Suckow, and S. Vasishth (2015). "Good-enough processing can mask interference effects". In: Proceedings of Annual CUNY Sentence Processing Conference. University of Southern California, Los Angeles, CA.

- **Nicenboim, B.**, P. Logacev, C. Gattei, and S. Vasishth (2014). "When high-capacity readers slow down and low-capacity readers speed up: Working memory differences in unbounded dependencies for German and Spanish readers". In: Mental Architecture for Processing and Learning of Language (MAPLL). Tokyo, Japan.

- **Nicenboim, B.**, S. Vasishth, and R. Kliegl (2014). "Readers with less cognitive control are more affected by surprising content: Evidence from a self-paced reading experiment in German". In: Mental Architecture for Processing and Learning of Language (MAPLL). Tokyo, Japan.
- **Nicenboim, B.**, S. Vasishth, and R. Kliegl (2014). "Readers with less cognitive control are more affected by surprising content". In: Architectures and Mechanisms for Language Processing (AMLaP). Edinburgh, UK.
- **Nicenboim, B.**, S. Vasishth, R. Kliegl, C. Gattei, and M. Sigman (2014). "Working-memory capacity modulates antilocality effects in syntactic dependencies". In: Proceedings of Annual CUNY Sentence Processing Conference. The Ohio State University, Columbus, OH.
- **Nicenboim, B.**, S. Vasishth, C. Gattei, P. Logačev, and M. Sigman (2013). "The effect of distance on unbounded dependencies: An individual differences perspective". In: Architectures and Mechanisms for Language Processing (AMLaP). Aix-Marseille Université, Marseille, France.
- **Nicenboim, B.** (2012). "Processing of filler-gap dependencies in Complex NP islands: Evidence from Hebrew". In: Proceedings of Annual CUNY Sentence Processing Conference, New York, NY.
- **Nicenboim, B.** (2012). "Processing Complex NP islands in Hebrew". In: Proceedings of Generative Linguistics in the Old World Conference (GLOW), Potsdam, Germany.

# 6 Invited talks

- Bayesian models of memory retrieval in sentence comprehension (2019). Institute of Cognitive Science, University of Osnabrueck, Germany.
- Memory in sentence comprehension (2018). Job Talk at the Department of Cognitive and Brain Sciences, University of Ben Gurion, Israel.
- A comparison of race and mixture models for explaining memory processes in sentence comprehension (2018). Stan user group in Berlin, Germany.
- Bayesian models in psycholinguistics (2017). Institut für Linguistik - Phonetik, University of Cologne, Germany.
- Models of retrieval in sentence comprehension: A computational evaluation using Bayesian hierarchical modeling (2017). Colloquium of the HLP Lab at University of Rochester, NY, USA.
- Fail fast or succeed slowly: Good-enough processing can mask interference effects (2015). Center for Research in Language at University of San Diego, California, USA.
- Hierarchical multinomial processing tree models (2015). Research Seminar in Cognitive Psychology, University of Potsdam, Germany.
- Speed-up does not necessarily mean facilitation: Working memory differences in long-distance dependency resolution (2013). Research Seminar in Cognitive Psychology, University of Potsdam, Germany.
- The Effect of Distance on Long-Distance Dependencies. An Individual Differences Perspective (2013). Research Seminar in Cognitive Psychology, University of Potsdam, Germany.
- The Effect of Distance on Long-Distance Dependencies. An Individual Differences Perspective (2013). Interdisciplinary Colloquium of the Linguistic Department, Tel Aviv University, Israel.
- The Effect of Distance on Unbounded Dependencies. An Individual Differences Perspective (2012). Psycholinguistic Seminar, Institute of Linguistics, University of Buenos Aires, Argentina.
- The Effect of Distance on Unbounded (Linguistic) Dependencies. An Individual Differences Perspective (2012). Seminar, Laboratory of Integrative Neuroscience, University of Buenos Aires, Argentina.

# 7 Honors and grants

| | |
|---|---|
| 2012–2018 | Potsdam Graduate School (PoGS) Travel Grants |
| 2014 | Kommission für Forschung und wissenschaftlichen Nachwuchs (FNK, University of Potsdam) Travel Grant |
| 2014 | Potsdam Graduate School (PoGS) PhD Completion Scholarship (5 months) |
| 2013 | Minerva Fellowship Extension for Doctoral Research (1 year) |
| 2011 | Minerva Fellowship for Doctoral Research (2 years) |
| 2009 | Posis Scholarship from the School of Cultural Studies, Tel Aviv University |
| 2008 | Faculty of Humanities Scholarship for Achievements in M.A. studies, Tel Aviv University |
| 2006 | Dean's Award for Achievements in Linguistics, Tel Aviv University |

# 8 Teaching experience

## 8.1 Workshops and summer schools

| | |
|---|---|
| 2020 (Forthcoming) | "Introduction to computational Bayesian methods using Stan", with Shravan Vasishth<br>Physalia courses, Berlin, Germany |
| 2020 (Forthcoming) | "Methods in Advanced Statistics", with Shravan Vasishth<br>2020 Winter School<br>by Netherlands Graduate School in Linguistics (LOT),<br>Tilburg, Netherlands |
| 2019 (Forthcoming) | "Introduction to Bayesian statistics using brms",<br>University of Cologne, Germany |
| 2019 (Forthcoming) | "Introduction to Bayesian statistics using brms",<br>University of Edinburgh, UK |
| 2019 (Forthcoming) | "Advanced Bayesian methods",<br>Third Summer School on Statistical Methods for Linguistics and Psychology,<br>University of Potsdam, Germany |
| 2018 | Talk:"Cognitive models of memory processes in sentence comprehension: A case study using Bayesian hierarchical modeling"<br>Masterclass in Bayesian Statistics, Research school,<br>CIRM (Marseille Luminy, France) |
| 2018 | "Advanced topics in Bayesian modeling",<br>Second Summer School on Statistical Methods for Linguistics and Psychology,<br>University of Potsdam, Germany |
| 2017 | "Introduction to Bayesian Modeling using Stan",<br>13. Tagung der Fachgruppe Methoden und Evaluation der Deutschen Gesellschaft für Psychologie,<br>Tübingen, Germany |
| 2017 | "Introduction to Bayesian modeling",<br>First Summer School on Statistical Methods for Linguistics and Psychology,<br>University of Potsdam, Germany |

## 8.2 Courses

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| 2015–2017 (Winter) | **Lecturer** in "Advanced Data Analysis". University of Potsdam |
| 2016 (Summer) | **Lecturer** in "Predictions in Language Processing". University of Potsdam |
| 2015–2016 (Winter) | **Lecturer** in "Individual Differences in Sentence Processing". University of Potsdam |
| 2015 (Summer) | **Lecturer** in "Predictions in Language Processing". University of Potsdam |
| 2008–2010 | **Teaching assistant** in "Syntax Beginners" and "Foundations of Theoretical Linguistics" Tel Aviv University |

# 9 Supervising

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| 2019 | Chiara Tschirner (co-supervision with Prof. Dr. Vasishth), Master Thesis. |
| 2018 | Eva-Maria Fey (co-supervision with Prof. Dr. Vasishth), Bachelor Thesis. Topic: "The effect of individual differences and the functional organisation of the human brain in joke comprehension based on left- and right-handedness" |
| 2016 | Daniel Grünke (co-supervision with Prof. Dr. Vasishth), Bachelor Thesis. Topic: "Der Zusammenhang zwischen Arbeitsgedächtnis und Satzverarbeitung" |
| 2015 | Lisa Münchberger (co-supervision with Prof. Dr. Vasishth), Bachelor Thesis. Topic: "Unflüssigkeiten und Hemmungen in der Sprachverarbeitung im Deutschen" |

# 10 Open software

- eeguana. An R package for flexible manipulation of EEG data. (https://bnicenboim.github.io/eeguana/)

# 11 Academic-related training

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|---|---|
| 2016 | Groningen Spring School on Cognitive Modeling, the Netherlands |
| 2015–2016 | International Teaching Professionals, University of Potsdam, Germany |
| 2013 | Autumn School Methods in Language Comprehension, Rovereto (TN), Italy |
| 2012 | Eye-tracking-while-reading at Laboratory of Integrative Neuroscience, University of Buenos Aires (3 months). Host: Dr. Mariano Sigman |

# 12 Reviewing

- Journal of Experimental Psychology: Learning, Memory, and Cognition

- Neuropsychologia

- Lingua

- Phonological Data and Analysis

- Language, Cognition and Neuroscience

- Routledge Manuscript

- Journal of Memory and Language

- Quarterly Journal of Experimental Psychology
- Journal of Cognitive Psychology
- Journal of Phonetics
- CUNY Conference
- Quantitative approaches in corpus linguistics and psycholinguistics, Paris, France

# 13 Languages

- Spanish (Mother tongue)
- English (Fluent)
- Hebrew (Fluent)
- German (Advanced)

# 14 Non-academic professional experience

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|---|---|
| 2009–2011 | QA engineer: NLP Testing at Clearforest. Testing rules and heuristics for identifying semantic entities and relations in English, Spanish and French texts. |
| 2007–2009 | Content Specialist position at Celebros. Organization, analysis and categorization of data of Spanish and U.S. clients' databases. |