

# DR. PHIL. CHRISTIN BECK (née Schätzle)

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<https://ling.sprachwiss.uni-konstanz.de/pages/home/beck>



## RESEARCH INTERESTS

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Deep learning for computational lexical semantics, modeling of language change, visual analytics for linguistics (LingVis), syntactic parsing, corpus linguistics, data & text mining, syntax, information structure, lexical semantics

## EDUCATION

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- 2013 – 2018     *Dr.phil., Computational Linguistics*  
University of Konstanz, Germany  
Thesis title: *Dative Subjects: Historical Change Visualized*  
(awarded summa cum laude)
- 2011 – 2013     *Master of Arts, Speech and Language Processing*  
University of Konstanz, Germany
- 2009 – 2010     *ERASMUS year abroad (Science du langage)*  
Blaise Pascal University, Clermont-Ferrand, France
- 2007 – 2011     *Bachelor of Arts, Linguistics*  
University of Konstanz, Germany

## ACADEMIC EXPERIENCE

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- 2015 – current     *Research Scientist*  
Project: *Evaluation Metrics for Visual Analytics in Linguistics*  
Department of Linguistics & Department of Computer Science  
University of Konstanz, Germany  
Project embedded in the Collaborative Research Center SFB-TRR 161  
“Quantitative Methods for Visual Computing” (DFG-funded; 2nd funding phase)  
<https://www.sfbtrr161.de>
- 2015     *Visiting Assistant in Research* (September – December)  
Prof. Ashwini Deo, Department of Linguistics  
Yale University, Connecticut, USA  
Research on the case marking system of Old and Middle Marathi
- 2013 – 2015     *Research Scientist*  
Project: *Visual Analysis of Language Change and Use Patterns* (DFG-funded)  
Department of Linguistics  
University of Konstanz, Germany

## GRANTS & AWARDS

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- 2019 Nomination for an award for outstanding young academics at the University of Konstanz (“Preis der Stadt Konstanz zur Förderung des wissenschaftlichen Nachwuchses an der Universität Konstanz”)
- 2016 Travel grant and funding for a three weeks intensive Icelandic course at the University Centre of the Westfjords in Ísafjörður, Iceland (August 2016)  
Stipend received from the integrated research training group of SFB-TRR 161
- 2015 Travel grant and funding for a research stay at Yale University, USA (Sept – Dec)  
Stipend received from the International Office, University of Konstanz, Germany

## THIRD-PARTY FUNDING

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- 2015 & 2019 Significant contribution to the process of writing the research proposal and grant application for the project *Evaluation Metrics for Visual Analytics in Linguistics* (PI: Miriam Butt) to acquire DFG-funding within the SFB-TRR 161 “Quantitative Methods for Visual Computing” (1st phase: 2015-2019, 2nd phase: 2019-2023)

## PUBLICATIONS

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### Dissertation

Schätzle, Christin (2018). Dative Subjects: Historical Change Visualized. PhD thesis. University of Konstanz.

### Book chapters

Hautli-Janisz, Annette, Christian Rohrdantz, Christin Schätzle, Andreas Stoffel, Miriam Butt, and Daniel A. Keim (2020). Visual Analytics in Diachronic Linguistic Investigations. In: *LingVis: Visual Analytics for Linguistics*. Ed. by Miriam Butt, Annette Hautli-Janisz, and Verena Lyding. Stanford: CSLI Publications.

### Journal articles

Beck, Christin and Miriam Butt (2020). Visual analytics for historical linguistics: opportunities and challenges. In: *Journal of Data Mining and Digital Humanities. Special Issue on Visualisations in Historical Linguistics*, pp. 1–23.

Schätzle, Christin (2017). Genitiv als Stilmittel in der Novelle. In: *Scalable Reading. Zeitschrift für Literaturwissenschaft und Linguistik (LiLi)* 47.1, pp. 125–140.

### Proceedings (peer-reviewed)

Beck, Christin (2020). DiaSense at SemEval-2020 Task 1: Modeling Sense Change via Pre-trained BERT Embeddings. In: *Proceedings of the Fourteenth Workshop on Semantic Evaluation*. Barcelona (online): International Committee for Computational Linguistics, pp. 50–58.

Beck, Christin, Hannah Booth, Mennatallah El-Assady, and Miriam Butt (2020). Representation Problems in Linguistic Annotations: Ambiguity, Variation, Uncertainty, Error and Bias. In: *Proceedings of the 14th Linguistic Annotation Workshop*. Barcelona, Spain: Association for Computational Linguistics, pp. 60–73.

Booth, Hannah and Christin Schätzle (2019). The Syntactic Encoding of Information Structure in the History of Icelandic. In: *Proceedings of the LFG'19 Conference*. Ed. by Miriam Butt, Tracy Holloway King, and Ida Toivonen. CSLI Publications, pp. 69–89.

Schätzle, Christin and Hannah Booth (2019). DiaHClust: an Iterative Hierarchical Clustering Approach for Identifying Stages in Language Change. In: *Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change*. Florence, Italy: Association for Computational Linguistics, pp. 126–135.

- Schätzle, Christin, Frederik L. Dennig, Michael Blumenschein, Daniel A. Keim, and Miriam Butt (2019). Visualizing Linguistic Change as Dimension Interactions. In: *Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change*. Florence, Italy: Association for Computational Linguistics, pp. 272–278.
- Booth, Hannah, Christin Schätzle, Kersti Börjars, and Miriam Butt (2017). Dative Subjects and the Rise of Positional Licensing in Icelandic. In: *Proceedings of the LFG'17 Conference*. Ed. by Miriam Butt and Tracy Holloway King. CSLI Publications, pp. 104–124.
- Schätzle, Christin, Michael Hund, Frederik Dennig, Miriam Butt, and Daniel A. Keim (2017). HistoBankVis: Detecting Language Change via Data Visualization. In: *Proceedings of the NoDaLiDa 2017 Workshop on Processing Historical Language*. Ed. by Gerlof Bouma and Yvonne Asedam. Linköping: Linköping University Electronic Press, pp. 32–39.
- Schätzle, Christin and Dominik Sacha (2016). Visualizing Language Change: Dative Subjects in Icelandic. In: *Proceedings of the LREC 2016 Workshop "VisLR II: Visualization as Added Value in the Development, Use and Evaluation of Language Resources"*. Portorož, Slovenia, pp. 8–15.
- Schulz, Christoph, Arlind Nocaj, Mennatallah El-Assady, Steffen Frey, Marcel Hlawatsch, Michael Hund, Grzegorz K. Karch, Rudolf Netzel, Christin Schätzle, Miriam Butt, Daniel A. Keim, Thomas Ertl, Ulrik Brandes, and Daniel Weiskopf (2016). Generative Data Models for Validation and Evaluation of Visualization Techniques. In: *BELIV'16: Beyond Time and Errors: Novel Evaluation Methods for Visualization*. Ed. by ACM.
- Schätzle, Christin, Miriam Butt, and Kristina Kotcheva (2015). The Diachrony of Dative Subjects and the Middle in Icelandic: A Corpus Study. In: *Proceedings of the LFG'15 Conference*. Ed. by Miriam Butt and Tracy Holloway King. CSLI Publications.
- Butt, Miriam, Tina Bögel, Kristina Kotcheva, Christin Schätzle, Christian Rohrdantz, Dominik Sacha, Nicole Dehé, and Daniel A. Keim (2014). V1 in Icelandic: A multifactorial visualization of historical data. In: *Proceedings of the LREC 2014 Workshop "VisLR: Visualization as added value in the development, use and evaluation of Language Resources"*. Reykjavik, Iceland.

## SELECTED TALKS AND PRESENTATIONS

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- Beck, Christin and Hannah Booth (2020). Investigating interactional syntactic change in Middle English: insights from visual analytics. Talk at ICAME 41 (Digital Conference), Heidelberg, Germany.
- Schätzle, Christin, Michael Blumenschein, and Miriam Butt (2018). HistoBankVis: Investigating Language Change via Visual Analytics. Poster presentation at the 1st International Conference on Quantification in Visual Computing, Stuttgart, Germany.
- Schätzle, Christin and Miriam Butt (2018). HistoBankVis: Visualizing Language Change. Talk at the Workshop "Visualizations in Historical Linguistics" at the 20th International Conference on English Historical Linguistics (ICEHL XX). Edinburgh, Scotland.
- Booth, Hannah and Christin Schätzle (2017a). Subjects, case and word order change in Icelandic: A corpus study. Talk at the 23rd International Conference on Historical Linguistics, San Antonio, Texas.
- (2017b). Word order change, case and expletives in the history of Icelandic. Talk at the 19th Diachronic Generative Syntax Conference, Stellenbosch, South Africa.
- Deo, Ashwini, Christin Schätzle, and Miriam Butt (2016). Dative/Accusative Syncretism in New Indo-Aryan. Talk at the workshop 'Middle and Early New Indo-Aryan: A Crucial Period for Linguistic Development?' at the 49th Annual SLE Meeting, Naples, Italy.
- Schätzle, Christin (2015). Visual Analytics for Linguistics. Talk at the Friday Lunch Talk Series of the Linguistics Department at Yale University, New Haven, CT.

## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

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Association for Computational Linguistics, International Lexical Functional Grammar Association

## REVIEWING

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### Conference and workshop abstracts

Lexical-Functional Grammar Conference, Diachronic Generative Syntax Conference, Workshop on Visualization for the Digital Humanities, South Asian Languages Analysis Roundtable, ArgVis – COMMA Workshop on Argument Visualization, International Workshop on Semantic Evaluation, International Workshop on Computational Approaches to Historical Language Change

## ACADEMIC SELF-ADMINISTRATION

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2020 Equal opportunities representative in the appointment committee for the Junior Professorship of Data and Information Mining in the Department of Computer and Information Sciences  
University of Konstanz, Germany

## ORGANIZATIONAL ACTIVITIES

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2018 *Workshop on Data Provenance and Annotation in Computational Linguistics*  
organized with Miriam Butt and Melanie Herschel  
Charles University Prague, Czech Republic

2017 *22nd International Lexical-Functional Grammar Conference*  
organized with Miriam Butt, Annette Hautli-Janisz, Tina Bögel, Sebastian Lory, Stefano Quaglia, Jessica Zipf  
University of Konstanz, Germany

## TEACHING EXPERIENCE

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2021 *Deep Learning with Python* (summer term 2021)  
Seminar, M.A. Speech and Language Processing  
University of Konstanz, Germany

2017 *Machine Translation* (summer term 2017)  
Seminar, B.A. Linguistics  
University of Konstanz, Germany

2016 *Corpus Methods for Historical Linguistics* (with Gerold Schneider)  
Tutorial at the Formal Diachronic Semantics Workshop 2016  
University of Konstanz, Germany

2014 *Corpus Linguistics with Perl* (summer term 2014)  
Seminar, M.A. Speech and Language Processing  
University of Konstanz, Germany

2012–2013 *Textprocessing with Python* (Teaching assistant, winter term 2012/2013)  
Seminar, M.A. Speech and Language Processing  
University of Konstanz, Germany

## SUPERVISION

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Ongoing Anna Mauz: *Automatic Detection of Multi Level Marketing Content in Social Media*  
MA-Thesis, Speech and Language Processing, University of Konstanz  
Supervisors: Annette Hautli-Janisz, Christin Beck

## COMPUTATIONAL SKILLS

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Python, Perl, Java, JavaScript, R, HTML, Grammar Engineering with XLE and xfst, LateX, MS Office

## LANGUAGES

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German (native), English (fluent), French (fluent), Latin (intermediate Latin certificate), Icelandic (basic), Spanish (basic), Italian (basic)

## OTHER ACTIVITIES

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Handball, tennis, snowboarding, hiking, traveling