

Philipp Christmann

Curriculum Vitae

I am a postdoctoral researcher at the CISPA Helmholtz Center for Information Security, supervised by Mario Fritz. My research focus is on the interaction between large language models (LLMs) and tools, addressing challenges related to factuality, security, and traceability.

Prior to joining CISPA, I was a PhD student at the Max Planck Institute for Informatics (and Saarland University), where I was advised by Gerhard Weikum and Rishiraj Saha Roy. During my PhD, my research focus was on integrating heterogeneous information sources into a flexible framework for answering factoid user questions.

In general, my research experience and interests involve large language models, information retrieval, knowledge graphs and graph neural networks.

Personal Information

Date of Birth 10 February 1997
Nationality German
Email philipp.christmann@cispa.de

Education

04/2021–02/2026 **PhD in Computer Science**, *Max Planck Institute for Informatics and Saarland University, Germany.*
Grade: summa cum laude, Honours Degree.

08/2019–03/2021 **Master in Computer Science**, *Saarland University, Germany.*
Grade: 1.1, Honours Degree.

10/2015–07/2019 **Bachelor in Computer Science**, *Saarland University, Germany.*
Grade: 2.3.

Professional Experience

09/2025–now **Postdoctoral Researcher**
CISPA Helmholtz Center for Information Security, Saarbrücken, Germany.
- Research on trustworthy artificial intelligence.

09/2023–01/2024 **Applied Science Internship**
Amazon, Alexa AI, Barcelona, Spain.
- Research project on retrieval-augmented generation with large language models (mentor: Svitlana Vakulenko, manager: Adrià de Gispert).

- 04/2021–09/2025 **Doctoral Researcher**
D5, Max Planck Institute for Informatics, Saarbrücken, Germany.
- Research on integrating heterogeneous information sources into question answering systems.
- 03/2022–09/2025 **System Admin**
D5, Max Planck Institute for Informatics, Saarbrücken, Germany.
- Various activities related to the systems of the department, including managing websites, demos, accounts, hardware and similar.
- 07/2019–02/2021 **Student Research Assistant**
D5, Max Planck Institute for Informatics, Saarbrücken, Germany.
- Setup and maintenance of question answering demos of the department.
- 03/2018–12/2020 **Student Assistant**
Clusteroffice, Cluster of Excellence (MMCI), Saarbrücken, Germany.
- Development and maintenance of multiple websites and services that are used by the *Saarland Informatics Campus (SIC)*, such as an *application portal* for SIC internal positions, and a system for organizing the *Journalistenpreis Informatik*.
- Organization of the web team of the Clusteroffice (since 05/2019).

Publications

P. Christmann, and G. Weikum. 2025. **The ReQAP System for Question Answering over Personal Information**. In Proceedings of the 34th ACM International Conference on Information and Knowledge Management 2025 (**CIKM '25**), Seoul, Korea, November 10 - 14, 2025. *Demonstration Paper*.

P. Christmann, and G. Weikum. 2025. **Recursive Question Understanding for Complex Question Answering over Heterogeneous Personal Data**. In Findings of the Association for Computational Linguistics: (**ACL '25**), Vienna, Austria, July 27 - August 1, 2025. *Long Paper*.

P. Christmann, and G. Weikum. 2024. **RAG-based Question Answering over Heterogeneous Data and Text**. In IEEE Data Engineering Bulletin, 2024. *Journal Paper*.

P. Christmann, S. Vakulenko, I. T. Sorodoc, B. Byrne, and A. de Gispert. 2024. **Retrieving Contextual Information for Long-Form Question Answering using Weak Supervision**. In Findings of the Association for Computational Linguistics: (**EMNLP '24**), Miami, US, November 12 - 16, 2024. *Short Paper*.

Z. Jia, P. Christmann, and G. Weikum. 2024. **Faithful Temporal Question Answering over Heterogeneous Sources**. In Proceedings of the ACM Web Conference 2024 (**WWW '24**), Singapore, May 13 - 17, 2024. *Research Track Long Paper*.

Z. Jia, P. Christmann, and G. Weikum. 2024. **TIQ: A Benchmark for Temporal Question Answering with Implicit Time Constraints**. In Companion Proceedings of the ACM Web Conference 2024 (**WWW '24 Companion**), Singapore, May 13 - 17, 2024.

P. Christmann, R. Saha Roy, and G. Weikum. 2024. **CompMix: A Benchmark for Heterogeneous Question Answering**. In Companion Proceedings of the ACM Web Conference 2024 (**WWW '24 Companion**), Singapore, May 13 - 17, 2024. *Resource Track Paper*.

P. Christmann, R. Saha Roy, and G. Weikum. 2023. **Explainable Conversational Question Answering over Heterogeneous Sources via Iterative Graph Neural Networks**. In Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR' 23**), Taipei, Taiwan, 23 - 27 July 2023. *Research Track Long Paper*.

P. Christmann, R. Saha Roy, and G. Weikum. 2023. **CLOCQ: A Toolkit for Fast and Easy Access to Knowledge Bases**. In Proceedings of the 20th Conference on Database Systems for Business, Technology and Web (**BTW' 23**), Dresden, Germany, 6 - 10 March 2023. *Short Paper*.

P. Christmann, R. Saha Roy, and G. Weikum. 2022. **Question Entity and Relation Linking to Knowledge Bases via CLOCQ**. In Joint Proceedings of SemREC 2022 and SMART 2022 (**SMART@ISWC '22**), Hangzhou, China, 27 October, 2022.

P. Christmann, R. Saha Roy, and G. Weikum. 2022. **Conversational Question Answering on Heterogeneous Sources**. In Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR' 22**), Madrid, Spain, 11 - 15 July 2022. *Research Track Long Paper*.

P. Christmann. 2022. **Explainable Conversational Question Answering over Heterogeneous Sources**. In Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR' 22**), Madrid, Spain, 11 - 15 July 2022. *Doctoral Consortium Paper*.

P. Christmann, R. Saha Roy, and G. Weikum. 2022. **Beyond NED: Fast and Effective Search Space Reduction for Complex Question Answering over Knowledge Bases**. In Proceedings of the 15th ACM International Conference on Web Search and Data Mining (**WSDM'22**), Arizona, US, 21 - 25 February 2022. *Research Track Long Paper*.

P. Christmann, R. Saha Roy, A. Abujabal, J. Singh, and G. Weikum. 2019. **Look before you Hop: Conversational Question Answering over Knowledge Graphs Using Judicious Context Expansion**. In Proceedings of the 28th ACM International Conference on Information and Knowledge Management 2019 (**CIKM '19**), Beijing, China, 3 - 7 November 2019. *Research Track Long Paper*.

Recognitions

SIGIR Student Travel Grant for SIGIR 2022.

Outstanding PC Member Award at WSDM 2022.

SIGIR Registration Grant for WSDM 2022.

SIGIR Student Travel Grant for CIKM 2019.

Professional Activities

Invited Talk at CISPA Helmholtz Center for Information Security on *QA over Heterogeneous Sources*, St. Ingbert, 2 April 2025.

Invited talk at Search-oriented Conversational AI (SCAI) on *Conversational Question Answering on Heterogeneous Sources*, Madrid, 15 July 2022.

Invited talk at Amazon Alexa AI on *Conversational Question Answering on Heterogeneous Sources*, remote, 13 June 2022.

Reviewer for TOIS (2022, 2023), TKDD (2026).

Program committee member at

SIGIR 2026 (long paper track),
WWW 2026 (short paper track),
WSDM 2026 (full paper track),
ECIR 2026 (long paper track),
CIKM 2025 (resource paper track),
SIGIR 2025 (long & short paper tracks),
ECIR 2025 (long & short paper tracks),
CIKM 2024 (short paper track),
SIGIR 2024 (long & short paper tracks),
CIKM 2023 (applied research track),
SIGIR 2023 (short paper track),
SIGKDD 2023 (applied science track),
CCKS 2021 (applied science track),
CIKM 2022 (short paper track),
SIGKDD 2022 (applied science track),
WSDM 2022 (full paper track - among 21 outstanding PC members),
CIKM 2021 (short paper track),
CIKM 2020 (short paper track).

Languages

German (Native)
English (Advanced, C1)
French (Basic)

Links

Web <https://philippchristmann.com>
Google Scholar <https://scholar.google.de/citations?user=AS874sUAAAAJ>
GitHub <https://github.com/PhilippChr>
LinkedIn <https://www.linkedin.com/in/philipp-christmann-1577b2191>

References

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Gerhard Weikum

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Mario Fritz

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Adrià de Gispert

Principal Scientist

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Assistant Professor

Vienna University of Economics and Business, Vienna, Austria

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