

Rolf Jagerman

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Education

- 2016–present **PhD Student**, *ILPS, University of Amsterdam*.
Research on counterfactual evaluation and learning for ranking and recommendation.
- 2014–2016 **MSc Computer Science**, *ETH Zürich*, 5.52/6.0.
Thesis: Web-scale Topic Models in Spark: an Asynchronous Parameter Server
- 2011–2014 **BSc Computer Science**, *TU Delft*, 8.7/10.0 (Cum Laude).
Thesis: Android Tor Tribler Tunneling (AT3)
Successfully completed the honours programme

Professional Experience

- 2019 **Software Engineering Intern**, *Google LLC*.
Summer research internship at Google.
- 2015 **Research assistant**, *Data Analytics Lab*, ETH Zürich.
Developed a large-scale distributed implementation of the Latent Dirichlet Allocation (LDA) model in Spark to run on a 20+ TB dataset.
- 2013 **Research intern**, *FD Mediagroep*.
Developed a high performance multi-label classification system for a proprietary database of 2 million companies using a taxonomy of 1500 labels.
- 2008–present **Founder**, *Contended*.
Web design and software development for various companies in the Netherlands: McKinsey & Company, Pels Rijcken & Droogleever Fortuijn and Van Spronsen & Partners.

Publications

- 2019 **R. Jagerman**, H. Oosterhuis and M. de Rijke. Learning to Rank from User Interactions: Comparing Counterfactual and Online Approaches. *Proceedings of the 42nd ACM International Conference on Research and Development in Information Retrieval*. ACM, 2019. [\[PDF\]](#)
- R. Jagerman**, I. Markov and M. de Rijke. When People Change their Mind: Off-Policy Evaluation in Non-stationary Recommendation Environments. *Proceedings of the 12th ACM International Conference on Web Search and Data Mining*. ACM, 2019. [\[PDF\]](#)
- 2018 **R. Jagerman**, K. Balog and M. de Rijke. OpenSearch: Lessons Learned from an Online Evaluation Campaign. *Journal of Data and Information Quality*. ACM, 2018. [\[PDF\]](#)

- 2017 **R. Jagerman**, K. Balog, P. Schaer, J. Schaible, N. Tavakolpoursaleh and M. de Rijke. Overview of TREC OpenSearch 2017. *Proceedings of the 26th Text REtrieval Conference*, 2017. [[PDF](#)]
- R. Jagerman**, H. Oosterhuis and M. de Rijke. Query-level Ranker Specialization. *1st International Workshop on LEARning Next gEneration Rankers (LEARNER)*, 2017. [[PDF](#)]
- R. Jagerman**, J. Kiseleva and M. de Rijke. Modeling Label Ambiguity for Neural List-Wise Learning to Rank. *2nd International Workshop on Neural Information Retrieval (Neu-IR)*, 2017. [[PDF](#)]
- R. Jagerman**, C. Eickhoff and M. de Rijke. Computing Web-scale Topic Models using an Asynchronous Parameter Server. *Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval*. ACM, 2017. [[PDF](#)]
- 2015 J. Deriu, **R. Jagerman** and K. Tsay. A Directional Diffusion Algorithm for Inpainting. *arXiv preprint arXiv:1511.03464*, 2015. [[PDF](#)]
- 2014 **R. Jagerman**, W. Sabée, L. Versluis, M. de Vos and J. Pouwelse. The fifteen year struggle of decentralizing privacy-enhancing technology. *arXiv preprint arXiv:1404.4818*, 2014. [[PDF](#)]

Teaching

- 2016-2018 Teaching assistant for "Search Engines" (3rd year BSc course)
- 2017 MSc Software Engineering student supervision of Jetse Koopmans
Thesis: Document Clustering on a Large Scale
- 2018 MSc Data Science student supervision of Tom Dop
Thesis: Evaluating the use of Recurrent Neural Networks in Display Advertising

Skills

- Languages Dutch (native speaker), English (fluent)
- Programming Python, Scala, Java, C++
- Frameworks Numpy, Scipy, Numba, Scikit-Learn, Tensorflow, Akka, Spark, Vowpal Wabbit,
& Tools NLTK

Open Source Contributions

- [Glint](#) High performance parameter server, compatible with Spark, written in Scala.
- [GlintLDA](#) Distributed implementation of LDA using a Metropolis-Hastings based collapsed Gibbs sampler.
- [Shoelace](#) Neural List-wise Learning-to-Rank library for Chainer.
- [ScalaRank](#) Scala implementations for Learning-to-Rank algorithms.
- [Murmur3.jl](#) High performance Julia implementation of Murmur3 hashing.

[Django](#) Bug fixes in the administration panel UI JavaScript.

[Tribler](#) Bug fixes for software stability on Android.

Awards

2018 ILPS Research Group MVP (Most Valuable Player) Award 2018

2017 ILPS Research Group MVP (Most Valuable Player) Award 2017

2014 Delft Climate City Campus Best Poster Award

Extra-curricular Activities

Participant in the Honours Programme Delft

Participant in six ACM International Collegiate Programming Contests, including the Northwestern European Regional Contest

Founder of a 150-person online videogame community: Legacy of the Six