Sebastian GEHRMANN

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🔗 sebastiangehrmann.github.io/   in sebastiangehrmann

🎓 EDUCATION

2019	**Ph.D. Computer Science**, Harvard University. Thesis : Human-AI Collaboration for Natural Language Generation with Interpretable Neural Networks. Advisors : Barbara Grosz and Sasha Rush
2018	**SM Computer Science**, Harvard University. GPA 3.9
2015	**B.Sc. Business Informatics**, Nordakademie, Germany. ECTS Grade A

💼 EXPERIENCE

2022 Present — Head of NLP, CTO OFFICE, BLOOMBERG, NYC

As Head of NLP, I am part of the machine learning product and strategy team. I work with teams across the company to improve their products using language technology and I devise the long-term research and development plan for NLP infrastructure used across the company. I further contribute to research projects in the space of large language models, data governance, and various NLP tasks.

2020 2022 — Senior Research Scientist , GOOGLE, NYC

I developed evaluation strategies for language-producing models across many languages and tasks :
- In the Generation, Evaluation, and Metrics (GEM) project, I lead 100+ researchers in documenting datasets and building infrastructure to automatically evaluate models across 40+ generation tasks.
- I worked with large language model projects to ensure that they are evaluated in a responsible and consistent way, acting as evaluation chair for BigScience and contributing to PaLM.

Summer 2018 + 2019 — Document Systems and NLP Research Intern, ADOBE, San Jose, CA

I studied how generated summaries help humans understand and share information in long documents. Reference : Franck Dernoncourt

Fall 2018 — Graduate Research Intern, IBM, Cambridge, MA

I developed interactive models and analysis tools for controllable generation of protein sequences. Reference : Hendrik Strobelt

Summer 2016 — Collaborator , BRUNO KESSLER FOUNDATION, Trento, Italy

I created an automatic mediation approach that guides people through the creation of a shared narrative. References : Massimo Zancanaro and Oliviero Stock

2011–2015 — Dual Student , EPPENDORF AG, Hamburg, Germany

I worked in project management for customer relationship management and developed and led software training sessions for field engineers across multiple European countries.

📖 SELECTED PUBLICATIONS

Please see my [Google Scholar] profile for a full list of my 50+ publications.

GEMv2 : Multilingual NLG Benchmarking in a Single Line of Code
EMNLP DEMO 2022

Sebastian Gehrmann, et al. (78 authors)

🔗 Website   🔗 Paper

Repairing the cracked foundation : A survey of obstacles in evaluation practices for generated text
JAIR

Sebastian Gehrmann, Elizabeth Clark, Thibault Sellam

🔗 Paper

The GEM Benchmark : Natural Language Generation, its Evaluation and Metrics
GEM WORKSHOP 2021

Sebastian Gehrmann, et al. (56 authors)

🔗 Paper

Investigating Gender Bias in Language Models Using Causal Mediation Analysis
NeurIPS 2020

Jesse Vig*, Sebastian Gehrmann*, Yonatan Belinkov*, Sharon Qian, Daniel Nevo, Yaron Singer, Stuart Shieber

🔗 Paper   🎧 Code

Bottom-Up Abstractive Summarization
EMNLP 2018

Sebastian Gehrmann, Yuntian Deng, Alexander Rush

🔗 Paper   🎧 Code

Seq2Seq-Vis : A Visual Debugging Tool for Sequence-to-Sequence Models
VAST 2018

Hendrik Strobelt*, Sebastian Gehrmann*, Michael Behrisch, Adam Perer, Hans-Peter Pfister, Alexander Rush

🔗 Website and Demo   🔗 Paper

📢 SELECTED TALKS

Do we know what we don't know? The state of evaluation in NLP
2022

Stanford NLP Seminar.

🔗 slides

Measuring the Quality of Natural Language Generation Systems
2022

Invited Talk by the Generation Special Interest Group of ACL and the Scottish Informatics and Computer Science Alliance.

🔗 slides   🔗 Recording

Breaking News : It's time to fix evaluation of generated text
2021

Keynote at the third workshop on New Frontiers in Summarization.

🔗 Slides

Human-AI Collaboration for Natural Language Generation with Interpretable Neural networks
2020

Invited talk at the Synthetic Intelligence Forum, organized by the NRC Canada.

🔗 Recording

🎓 TEACHING AND MENTORING

2020–present	Hosted, co-hosted, and/or advised the following interns at Google : Alon Jacovi, Amy Pu, Esin Durmus, Jiao Sun, Kelechi Ogueji, Mirac Suzgun
ACL 2020	Tutorial "Interpretability and Analysis in Neural NLP", co-taught with Yonatan Belinkov and Ellie Pavlick
Winter 2020	Structure and Interpretation of Deep Networks, Co-Organizer, MIT
Fall 2018	HST.953 : Collaborative Data Science in Medicine, Mentor, MIT
Fall 2017	CS182 : Artificial Intelligence, Teaching Fellow, Harvard SEAS
Fall 2016	CS108 : Intelligent Systems : Design and Ethical Challenges, Teaching Fellow, Harvard SEAS
2015 & 2016	Data Analysis with Python, Intructor, Nordakademie, Elmshorn, Germany
2013 & 2014	Introduction to Finance, Instructor, Nordakademie, Germany

⛓ Leadership

2022	2nd Workshop on Natural Language Generation, Evaluation, and Metrics at EMNLP 2022, General Chair
2021	1st Workshop on Natural Language Generation, Evaluation, and Metrics at ACL 2021, Organizer.
2020	1st Workshop on Evaluating NLG Evaluation at INLG 2020, Organizer
2019	International Natural Language Generation Conference, Tokio, Japan, Publicity Chair
2016–2019	Computer Science Graduate Council, Harvard University, President

🏆 Awards

2022	Outstanding Paper Award at MLEval@ICLR 2022
2020	Outstanding Demo Award at NeurIPS 2020
2019	Paper Nominated for the best demo award at ACL 2019
2019	Member of the Siebel Scholar class of 2020
2019	One of ten recipients of the Adobe Research Fellowship selected from over 1,000 applicants
2019	2 x Adobe Research Gift for Harvard NLP ($5,000 each)
2019	Best automated scores at the TL;DR challenge out of 12 submitted systems
2018	Best paper honorable mention at IEEE Vis 2018
2018	Harvard Open-Access Publishing Equity award ($1,500)
2017	Best automated scores at the E2E NLG challenge out of 60 submitted systems
2016/17	Karina A. Chen Graduate Student Research Fellowship in Engineering and Applied Sciences
2013/14	Award for outstanding service to the community of Nordakademie

📄 Reviewing and Committees

SAC	NAACL 2022
AC	AAAI 2021, ACL 2020, 2021, ACL-ARR 2021-2022, EACL 2021, EMNLP 2021, 2022, NAACL 2021
Conference PC	ACL 2018, 2019, ACL-ARR 2021, CoNLL 2019, EMNLP 2019 (outstanding reviewer), 2020 (outstanding reviewer) IEEE VIS 2019, NAACL 2019, NeurIPS 2020 (top 10% reviewer), 2021, INLG 2018, IUI 2018, 2019
Workshop PC	BlackboxNLP 2020, 2021, EACL SRW 2020, HAI-GEN 2020, 2021, NeuralGen 2019, New Frontiers in Summarization 2019, SustaiNLP 2020, VisXAI 2018, 2019, 2020, 2021, WebNLG+ 2020
Journals	IJMI, JAIR, JMIR, JMLR, PLoS One, TACL