

Sebastian GEHRMANN

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EDUCATION

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| 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

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|-----------------------|---|
| 2020
Present | Senior Research Scientist , GOOGLE, NYC
I develop evaluation strategies for language-producing models across many languages and tasks : <ul style="list-style-type: none">➢ 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 collaborate 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 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

IN SUBMISSION

Sebastian Gehrmann, et al. (78 authors)

[Website](#) [Paper](#)

REPAIRING THE CRACKED FOUNDATION : A SURVEY OF OBSTACLES IN EVALUATION PRACTICES FOR GENERATED TEXT

IN SUBMISSION

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

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, Instructor, 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

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