

Sebastian GEHRMANN

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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

- 2024 Present** | **Technical Strategist for Responsible AI, CTO OFFICE, BLOOMBERG, NYC**
As Technical Strategist for Responsible AI, I oversee the development and implementation of the vision and framework for Responsible AI across the company. By shaping policies and practices, I enable and facilitate the development of AI solutions that are trustworthy, transparent, and reliable. I further act as expert and educator for internal teams, clients, and external stakeholders.
- 2022 2024** | **Head of NLP, CTO OFFICE, BLOOMBERG, NYC**
As Head of NLP, I was responsible for the strategy for language technology that powers Bloomberg's products. I worked with a team of 25+ software engineers and researchers on its implementation. Notable product launches powered by NLP include Text-to-Query generation, earnings call summarization, and natural language search functionalities for the terminal. Our team also developed BloombergGPT, our research project to build a finance-specific LLM.
- 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 and PaLM 2.
- 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, resulting in multiple patents and papers.
- Fall 2018** | **Graduate Research Intern, IBM, Cambridge, MA**
I developed interactive models and analysis tools for controllable generation of protein sequences. We found multiple novel candidates for antibiotic development, resulting in a patent and paper published in nature bme.
- Summer 2016** | **Collaborator , BRUNO KESSLER FOUNDATION, Trento, Italy**
I created an automatic mediation approach that guides people through the creation of a shared visual narratives.
- 2011–2015** | **Dual Student , EPPENDORF AG, Hamburg, Germany**
I worked in project management for customer relationship management tools 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](#) [v1 Paper](#)
- REPAIRING THE CRACKED FOUNDATION : A SURVEY OF OBSTACLES IN EVALUATION PRACTICES FOR GENERATED TEXT** JAIR 2023
Sebastian Gehrmann, Elizabeth Clark, Thibault Sellam
[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](#)
- GLTR : STATISTICAL DETECTION AND VISUALIZATION OF GENERATED TEXT** ACL 2019
Sebastian Gehrmann*, Hendrik Strobelt*, Alexander Rush
[Website and Demo](#) [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

- BLOOMBERGGPT : A LARGE LANGUAGE MODEL FOR FINANCE** 2023
Synthetic Intelligence Forum.
[Recording](#)
- 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

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| 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 |