

Kevin Stowe, Ph.D.

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in LinkedIn

🌐 Website

📖 Scholar

About Me

- 📌 I am a research scientist and natural language processing/artificial intelligence professional. My interests include natural language generation, linguistics-informed machine learning, and responsible AI. I have 10+ years of experience in the fields of NLP, AI, and Linguistics, with expertise in software development, model training and deployment, data collection/analysis, and deep learning.

Employment History

- 2024 – 📌 **Research Scientist**, Educational Testing Service (ETS), Princeton, NJ
- 2022 – 2024 📌 **Associate Research Scientist**
 - Automated Content Generation (ACG) team: building machine learning methods for the generation of evaluation of testing/educational content.
 - Implement and explore state-of-the-art deep learning and LLM methodology, focusing on novel techniques for training, prompting, and evaluation.
 - Fairness, bias, and accessibility project leader, exploring socio-technical solutions for responsible generation of educational content.
- 2019 – 2022 📌 **Postdoctoral Researcher**, Ubiquitous Knowledge Processing (UKP), TU Darmstadt
 - Lead research in metaphor generation, dataset creation, social media analysis during crisis events, and more, yielding top-tier conference publications.
- 2013 – 2019 📌 **Research Assistant**, University of Colorado, Boulder, CO

Education

- 2013 – 2019 📌 **Ph.D., University of Colorado**
Joint Degree in Linguistics and Computer Science
Thesis: *Syntactic and semantic improvements to computational metaphor processing*
- 2009 – 2011 📌 **Master of Arts, Indiana University**
Computational Linguistics Track
- 2004 – 2009 📌 **Bachelor of Arts, Michigan State University**
Linguistics

Skills

- Programming 📌 Python, Java, R, PHP, Javascript, SQL
- Toolkits 📌 HuggingFace, PyTorch/Tensorflow, OpenAI, ScikitLearn, NLTK, Spacy, Gensim
- Environments 📌 Git, AWS (S3, EC2, SageMaker, etc), Linux/Unix/Mac/Windows
- Misc. 📌 Scientific research, writing, and presentation; client communications, team/project leadership, interdisciplinary collaboration
- Languages 📌 Native English, fluent German, beginner Russian

Select Publications

- 1 Stowe, K. *et al.* Identifying Fairness Issues in Automatically Generated Testing Content. *19th Workshop on Innovative Use of NLP for Building Educational Applications (BEA)*. eprint: 2404.15104 (cs.CL).
🔗 <https://aclanthology.org/2024.bea-1.20> (2024).
- 2 Stowe, K., Utama, P. & Gurevych, I. IMPLI: Investigating NLI Models' Performance on Figurative Language. *Proceedings of the Association for Computational Linguistics (ACL)*, 5375–5388.
🔗 <https://aclanthology.org/2022.acl-long.369> (May 2022).