Ana Marasović, Curriculum Vitae, September 2024

www.anamarasovic.com ana.marasovic@utah.edu Merrill Engineering, Office 2166 50 Central Campus Dr Salt Lake City, UT 84112

RESEARCH INTERESTS

Natural Language Processing, Explainable AI, Multimodality

EMPLOYMENT

Assistant Professor, University of Utah, Kahelrt School of Computing

Jul 2022 – present

Young Investigator, Allen Institute for AI

Mar 2019 – Jun 2022

Courtesy appointment at the University of Washington, Paul G. Allen School of Computer Science & Engineering

EDUCATION

Ph.D. in Computational Linguistics, Heidelberg University

2015 - 2019

Honors: Magna cum laude

M.Sc. in Applied Mathematics, University of Zagreb

2013 - 2015

Honors: Summa cum laude

B.Sc. in Mathematics, University of Zagreb

2010 - 2013

Honors and Awards

- ACL 2023 Best Paper Award
- ACL 2023 Best Senior Area Chair Award
- SoCal NLP Symposium 2022 Best Paper Award
- ACL 2020 Best Paper Honorable Mention Award
- UC Berkeley EECS 2020 Rising Star
- EMNLP 2020 Outstanding Reviewer Award
- EMNLP 2019 Outstanding Reviewer Award

Funded Proposals

Allen Institute for AI, Research Gift, \$100,000

Oct 2022

Title: "Expressing Uncertainty During Explanation Generation"

Publications

- [1] Oliver Bentham, Nathan Stringham, and **Ana Marasović**. Chain-of-Thought Unfaithfulness as Disguised Accuracy. TMLR 2024.
- [2] Ashim Gupta, Rishanth Rajendhran, Nathan Stringham, Vivek Srikumar, and **Ana Marasović**. Whispers of Doubt Amidst Echoes of Triumph in NLP Robustness. NAACL 2024.
- [3] Fateme Hashemi Chaleshtori, Atreya Ghosal, and **Ana Marasović**. On Evaluating Explanation Utility for Human-AI Decision-Making in NLP. The workshop "XAI in Action: Past, Present, and Future Applications" co-colated with NeurIPS 2023.

- [4] Jacob K. Johnson and **Ana Marasović**. *How Much Consistency Is Your Accuracy Worth?* The Workshop on Analyzing and Interpreting Neural Networks for NLP (BlackboxNLP) co-located with EMNLP 2023.
- [5] Jack Hessel, **Ana Marasović**, Jena D. Hwang, Lillian Lee, Jeff Da, Rowan Zellers, Robert Mankoff, and Yejin Choi. Do Androids Laugh at Electric Sheep? Humor "Understanding" Benchmarks from The New Yorker Caption Contest. ACL 2023. [acceptance rate 22.8% out of 4864 submissions] (Received a Best Paper Award)
- [6] Abhilasha Ravichander, Matt Gardner, and Ana Marasović. CondaQA: A Contrastive Reading Comprehension Dataset for Reasoning about Negation. EMNLP 2022. (Received a Best Paper Award at the SoCal NLP Symposium 2022)
- [7] Alexis Ross, Matthew E. Peters, and **Ana Marasović**. Does Self-Rationalization Improve Robustness to Spurious Correlations? EMNLP 2022. [acceptance rate 1074/4864=22.8%]
- [8] Shruti Palaskar, Akshita Bhagia, Yonatan Bisk, Florian Metze, Alan W Black, and **Ana Marasović**. On Advances in Text Generation from Images Beyond Captioning: A Case Study in Self-Rationalization. Findings of EMNLP 2022.
- [9] Ana Marasović*, Iz Beltagy*, Doug Downey, and Matthew E. Peters. Few-Shot Self-Rationalization with Natural Language Prompts. Findings of NAACL 2022. *Equal contributions.
- [10] Sarah Wiegreffe* and **Ana Marasović***. Teach Me to Explain: A Review of Datasets for Explainable NLP. NeurIPS Data Track 2021. *Equal contributions.
- [11] Sarah Wiegreffe, Ana Marasović, and Noah A. Smith. Measuring Association Between Labels and Free-Text Rationales. EMNLP 2021.
- [12] Jesse Dodge, Maarten Sap, **Ana Marasović**, William Agnew, Gabriel Ilharco, Dirk Groeneveld, Margaret Mitchell, and Matt Gardner. *Documenting Large Webtext Corpora: A Case Study on the Colossal Clean Crawled Corpus*. EMNLP 2021.
- [13] Kaiser Sun and Ana Marasović. Effective Attention Sheds Light On Interpretability. Findings of ACL 2021.
- [14] Alexis Ross, **Ana Marasović**, and Matthew E. Peters. Explaining NLP Models via Minimal Contrastive Editing (MiCE). Findings of ACL 2021.
- [15] Alexander M. Hoyle, **Ana Marasović**, and Noah A. Smith. *Promoting Graph Awareness in Linearized Graph-to-Text Generation*. Findings of ACL 2021.
- [16] Alon Jacovi, **Ana Marasović**, Tim Miller, and Yoav Godlberg. Formalizing Trust in Artificial Intelligence: Prerequisites, Causes and Goals of Human Trust in AI. ACM FAccT 2021.
- [17] Ana Marasović, Chandra Bhagavatula, Jae sung Park, Ronan Le Bras, Noah A. Smith, and Yejin Choi. Natural Language Rationales with Full-Stack Visual Reasoning: From Pixels to Semantic Frames to Commonsense Graphs. Findings of EMNLP 2020.
- [18] Qiang Ning, Hao Wu, Pradeep Dasigi, Dheeru Dua, Matt Gardner, Robert L. Logan IV, **Ana Marasović**, and Zhen Nie. Easy, Reproducible and Quality-Controlled Data Collection with CrowdAQ. EMNLP Demo 2020.
- [19] Suchin Gururangan, **Ana Marasović**, Swabha Swayamdipta, Kyle Lo, Iz Beltagy, Doug Downey, and Noah A. Smith. *Don't Stop Pretraining: Adapt Language Models to Domains and Tasks*. ACL 2020. (Received an Honorable Mention for Best Paper)
- [20] Pradeep Dasigi, Nelson F. Liu, **Ana Marasović**, Noah A. Smith, and Matt Gardner. *Quoref: A Reading Comprehension Dataset with Questions Requiring Coreferential Reasoning*. EMNLP 2019.
- [21] Ana Marasović and Anette Frank. SRL4ORL: Improving Opinion Role Labeling Using Multi-Task Learning with Semantic Role Labeling. NAACL 2018.
- [22] Markus Zopf, Teresa Botschen, Tobias Falke, Benjamin Heinzerling, **Ana Marasović**, Todor Mihaylov, S. Avinesh P.V., Eneldo Loza Mencía, J. Fürnkranz, and A. Frank. What's Important in a Text? An Extensive Evaluation of Linguistic Annotations for Summarization. SNAMS 2018.

- [23] **Ana Marasović**, Leo Born, Juri Opitz, and Anette Frank. A Mention-Ranking Model for Abstract Anaphora Resolution. EMNLP 2017.
- [24] Ana Marasović, Mengfei Zhou, Alexis Palmer, and Anette Frank. Modal Sense Classification At Large:
 Paraphrase-Driven Sense Projection, Semantically Enriched Classification Models and Cross-Genre Evaluations.
 Linguistic Issues in Language Technology (LiLT) Modality: Logic, Semantics, Annotation, and Machine Learning 14
 (3). 2016.
- [25] Ana Marasović and Anette Frank. Multilingual Modal Sense Classification using a Convolutional Neural Network. Workshop on Representation Learning for NLP (Repl4NLP) 2016.

Other

• Ana Marasović. NLP's Generalization Problem, and How Researchers Are Tackling It. The Gradient 2018.

Talks

1ALKS	
Keynote Talks	
Challenges in Fostering (Dis)Trust in AI Workshop on "Trust Perspectives in Machine Learning, Law, and Public Policy" organized by Oct 2023 the Institute for Data, Econometrics, Algorithms, and Learning; located at Northwestern University	Oct 2023
Contrastive Explanations of NLP Models EMNLP Workshop on "Analyzing and Interpreting Neural Networks for NLP" (BlackBoxNLP)	Nov 2021
Resolving Abstract Anaphors in Discourse: Uphill Battles with Neural Ranking Models and Automatic Data Extraction NAACL Workshop on Computational Models of Reference, Anaphora, and Coreference (CRAC)	Jun 2018
Invited Talks	
Explainability and Trust Bellairs Invitational Workshop on Contemporary, Foreseeable and Catastrophic Risks of LLMs; Barbados	Apr 2024
Challenges in Fostering (Dis)Trust in AI University of Pennsylvania University of Pittsburgh	Apr 2024
"We propose <insert an="" explainability="" method=""> to increase human trust in AI": What does this mean and how to go about it? University of Maryland</insert>	Apr 2023
"AI" That Masters Language Could Reason about Negation University of Utah Data Science Seminar	Feb 2023
Formalizing Trust in AI NSF AI Institute for Research on Trustworthy AI in Weather, Climate, and Coastal Oceanography (AI2ES)	May 2022
Self-Explaining for Intuitive Interaction with AI	
Carnegie Mellon University	Apr 2022
NEC Labs Europe	Apr 2022
University of Lisbon - Unbabel Seminar	Apr 2022
UC Irvine	Mar 2022
Johns Hopkins University	Feb 2022
Brown University University of Chicago	Feb 2022 Feb 2022
Ourversity of Chicago	reb 2022

Ohio State University	Feb 2022 Feb 2022
Purdue University, CS University of Utah	Feb 202.
On Reducing Human-Authored Free-Text Explanations for Training	Dec 2021
University College London	
Explanation Selection Through The Lens of Free-Text & Contrastive Explanation	ons
USC Machine Learning Symposium	Dec 202
Georgia Tech NLP Seminar	Nov 2022
University of Sheffield Seminar Purdue University, ECE	Nov 2021 Nov 2021
Explaining with Natural Language	Oct 202
University of Edinburgh	000 -0-1
Reflecting on Interpretability Desiderata with Visual Commonsense Reasoning	Nov 2019
University of Washington, Department of Linguistics Seminar	
Teaching Machines Language Understanding	Apr 2019
Allen School Women's Research Day, University of Washington	
Resolving Abstract Anaphors in Discourse: Uphill Battles with Neural Ranki Models and Automatic Data Extraction	ng
Allen Institute for AI	Oct 2018
Potsdam University, Applied Computational Linguistics	Jun 2018
Bochum University, Sprachwissenschaftliches Institut	May 2018
	Spring, Fall 202
EACHING CS 5340/6340: Natural Language Processing CS 7931: Advances in Generative AI Seminar CS 5966/6966: Local Explanations for Doop Learning Models	Fall 2024
CS 5340/6340: Natural Language Processing CS 7931: Advances in Generative AI Seminar CS 5966/6966: Local Explanations for Deep Learning Models	Fall 2024 Fall 2023, 2022
CS 5340/6340: Natural Language Processing CS 7931: Advances in Generative AI Seminar CS 5966/6966: Local Explanations for Deep Learning Models CS 5140/6140: Data Mining	Spring, Fall 2024 Fall 2024 Fall 2023, 2022 Spring 2023
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Mentoring

Utah PhD Students	
Nathan Stringham	Aug 2023 – present
Fateme Hashemi Chaleshtori	Jan 2023 – present
Utah PhD Student Collaborators	
Zhichao Xu	Dec 2023 - present
Michael Clemens \rightarrow New Jersey Institute of Technology PhD	Jul 2023 – present
Atreya Ghosal	Apr 2023 – Jun 2024
Oliver Bentham	Jan 2024 - Feb 2024
Ashim Gupta	$Oct\ 2022 - Dec\ 2023$
Akansha Kalra	Nov 2022 – Dec 2022
Utah MS Researchers	
Adwait Shinganwade	${ m Aug}~2024-{ m present}$
Yash Lele	Aug 2024 – present
Alex Gill	Jan 2024 – present
Purbid Bambroo J	an – May 2024; Sep 2024 – present
Rishanth Rajendhran \rightarrow University of Maryland PhD	Nov 2022 – May 2024
Mugdha Abhyankar	Jan 2023 – May 2023
Utah BS Researchers	
Braden Fiedel	Aug 2024 – present
Casey Miller	Aug 2024 - present
Kishan Thambu	Aug 2024 – present
Byron Liu (co-mentoring with the PhD student Maitrey Mehta)	Jul 2023 – May 2024
Jordan Tan	Jul 2023 – Aug 2023
Dana Ahn	Mar 2023 - Aug 2023
Jacob Johnson \rightarrow Utah PhD \rightarrow Weber State University MS	Nov $2022 - \text{May } 2024$
UW BS/MS Researchers	
Kaiser Sun with Noah A. Smith → META Residency → JHU PhD	Mar 2020 – present
Millicent Li with Noah A. Smith \rightarrow META Residency \rightarrow Northeastern PhD	Mar 2020 – Aug 2021
AI2 Predoctoral Researchers	
Alexis Ross with Matthew E. Peters \rightarrow MIT PhD	July 2020 – June 2022
AI2 Interns (PhD students)	
Abhilasha Ravichander – Carnegie Mellon University – with Matt Gardner	Jun 2021 - June 2022
Shruti Palaskar – Carnegie Mellon University	May $2021 - June 2022$
Mimansa Jaiswal – University of Michigan	Sep $2021 - Dec 2021$
Alexander M. Hoyle – University of Maryland – with Noah A. Smith	Jun 2020 – Nov 2020
Sarah Wiegreffe – Georgia Tech – Al2 Intern of the Year – with Noah A. Smith	May 2020 – Oct 2020
Zhanming Allan Jie – Singapore Uni. of Technology & Design – with Pradeep Dasigi	Jun 2019 – Aug 2019
Service	
Department & University Service	
Faculty Upskilling in AI (U-AI) instructor and consultant	Fall 2024
AI Track Director	Jul 2023 – present
One Utah RAI Healthcare Working Group	Feb 2024 – Jul 2024
Faculty Hiring Committee	Nov 2023 – May 2024
PhD (AI) Admissions Committee	Dec 2022 – Jan 2023
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Nov 2023

Presented "Preparing a Research Statement" at 2023 KSoC Graduate Open House

PhD Committee Member

Laura Vietz

Ashim Gupta

Maitrey Mehta

Jakob Johnson

Mattia Medina-Grespan

Zhichao Xu

Peter Hase (UNC Chapel Hill)

Zhenduo Wang

Marcos Treviso (University of Lisbon)

Prince Osei Aboagye

Tianyu Jiang

Senior Area Chair

ACL 2024

ACL 2023 (Best Senior Area Chair)

EMNLP 2022

Co-organizer

Teaching NLP: Workshop on Teaching Natural Language Processing @ ACL 2024

SustaiNLP: Workshop on Simple and Efficient Natural Language Processing @ EMNLP 2021

AllenNLP 2021 Hackathon for Minoritized Communities

Host of the NLP Highlights Podcast from 2021-2022

AIPHES Scientfic Workshop 2017

Monograph Reviewer

Reviewer for "Synthesis Lectures in Human Language Technologies: Explainable Natural Language Processing" in 2021

Journal Reviewer

TACL 2017 (secondary reviewer), 2021

Conference Reviewer

NAACL 2024

EMNLP 2018, 2019 (outstanding reviewer), 2020 (outstanding reviewer), 2021, 2024

ACL 2017 (secondary reviewer), 2019, 2020, 2021

EACL 2021, 2023

ICML 2020

AAAI 2020

Workshop Reviewer

Representation Learning for NLP (Repl4NLP) @ ACL 2018, ACL 2019

Deep Learning Approaches for Low-Resource Natural Language Processing (DeepLo) @ EMNLP 2019

Learning from Limited Labeled Data (LLD) Workshop @ ICLR 2019

Evaluation and Comparison of NLP Systems (EvalNLP) @ EMNLP 2020

Insights from Negative Results in NLP @ EMNLP 2020

Computational Approaches to Discourse (CODI) @ EMNLP 2020

Domain Adaptation for NLP (Adapt-NLP) @ EACL 2021

Panelist

Moderator of the panel "AI in Pop Culture vs. Reality" at the Leonardo in Nov 2024

Panelist at the Utah Digital Health Initiative "Generative AI in Health Sciences Research" panel in Nov 2023

Panelist at the SCI's 30th Anniversary event in April 2024

Panelist at a career panel at 2023 EACL Student Research Workshop (SRW)

Panelist for the screening of the movie "After Yang" for the STEM Education Film Series by Park City Film in Sep 2022

Panelist at ACL Mentorship: "Building NLP datasets" in Aug 2022

Panelist at SoCal ML & NLP Symposium 2021 (Networking and career paths for under-represented minorities)

Panelist at undergraduate panel session @ ACL 2020

Moderator at Conferences

Moderator of a meetup on "Interpretability" @ ACL 2021

Moderator of a meetup on "Whether to do a PhD; and how to apply for and choose a PhD program" @ EMNLP 2020

Moderator of a meetup on "Interpretability and Analysis of Models for NLP" at EMNLP 2020

Moderator of a roundtable on "Natural Language Generation" at WiNLP @ ACL 2020

Mentoring at Conferences

Mentor at WiNLP @ ACL 2020

"Big sibling" at EMNLP 2019, NAACL 2019

Other Service

Leonardo AI Advisory Committee Member, Jun 2024 - present

Co-Lead of the AI2 Employee Resource Group (ERG) for Women and Gender Minorities in 2022

Member of the AI2 Diversity, Equity and Inclusion Committee in 2020 and 2021

Reader of 2020 PhD applications at the University of Washington

OPEN-SOURCE SOFTWARE AND DATASETS

• Few-Shot Self-Rationalization with Natural Language Prompts

https://github.com/allenai/feb

- Natural Language Rationales with Full-Stack Visual Reasoning: From Pixels to Semantic Frames to Commonsense Graphs https://github.com/allenai/visual-reasoning-rationalization
- Don't Stop Pretraining: Adapt Language Models to Domains and Tasks

Contributor

https://github.com/allenai/dont-stop-pretraining

· Quoref Dataset

Contributor

https://allenai.org/data/quoref

• SRL4ORL: Improving Opinion Role Labeling Using Multi-Task Learning With Semantic Role Labeling

https://github.com/amarasovic/naacl-mpqa-srl4orl

• A Mention-Ranking Model for Abstract Anaphora Resolution

https://github.com/amarasovic/neural-abstract-anaphora

https://github.com/amarasovic/abstract-anaphora-data

Multilingual Modal Sense Classification using a Convolutional Neural Network

https://github.com/amarasovic/modal-sense-classification

Dataset: http://projects.cl.uni-heidelberg.de/modals/

• Matplotlib Examples for Visualizing Paper Results

https://github.com/amarasovic/matplotlib4papers

References

- Noah A. Smith, nasmith@cs.washington.edu
- Yejin Choi, yejin@cs.washington.edu
- · Anette Frank, frank@cl.uni-heidelberg.de
- Doug Downey, dougd@allenai.org