Ana Marasović, Curriculum Vitae, Februray 2023

Johns Hopkins University

www.anamarasovic.com Merrill Engineering, Office 2166 ana.marasovic@utah.edu 50 Central Campus Dr Salt Lake City, UT 84112 Research Interests Natural Language Processing, Explainable AI, Multimodality EMPLOYMENT Assistant Professor, University of Utah, School of Computing July 2022 - present Young Investigator, Allen Institute for AI March 2019 - June 2022 Postdoctoral Research, University of Washington January 2020 - June 2022 Paul G. Allen School of Computer Science & Engineering EDUCATION Ph.D. in Computational Linguistics, Heidelberg University 2015 - 2019Honors: Magna cum laude M.Sc. in Applied Mathematics, University of Zagreb 2013 - 2015Honors: Summa cum laude B.Sc. in Mathematics, University of Zagreb 2010 - 2013Honors and Awards SoCal NLP Symposium 2022 Best Paper Award for "CondaQA: A Contrastive Reading Comprehension Dataset for Reasoning about Negation" ACL 2020 Best Paper Honorable Mention for "Don't Stop Pretraining: Adapt Language Models to Domains and Tasks" • Outstanding Reviewer Award at EMNLP 2019 and 2020 • Selected as one of the UC Berkeley EECS 2020 Rising Stars INVITED TALKS **TBD** April 2023 University of Maryland "AI" That Masters Language Could Reason about Negation February 2023 University of Utah Data Science Seminar May 2022Formalizing Trust in AI NSF AI Institute for Research on Trustworthy AI in Weather, Climate, and Coastal Oceanography (AI2ES) Self-Explaining for Intuitive Interaction with AI Carnegie Mellon University April 2022 NEC Labs Europe April 2022 University of Lisbon - Unbabel Seminar April 2022 University of California Irvine March 2022

February 2022

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Keynote at NAACL Workshop on Computational Models of Reference, Anaphora, and Coreference Potsdam University, Applied Computational Linguistics Bochum University, Sprachwissenschaftliches Institut **CEACHING** CS 5966/6966: Local Explanations for Deep Learning Models CS 5140/6140: Data Mining Spring 202 CS 5966/6966: Local Explanations for Deep Learning Models **CUEST LECTURES NLP with (Almost) No Training Data University of Utah, MATH 4100 / COMP 5360, Host: Kate Isaacs University of Utah, CS 5340/6340, Host: Ellen Riloff Nov 202 Towards Trustworthy Natural Language Processing: On Intuitive Interaction and Rigorous Validation University of Utah, CS 3020 Research Forum, Host: Kobus Van Der Merwe A Quick Tour of NLP Explainability University of Washington, Host: Yulia Tsvetkov Detecting Artifacts with Local Explanations University of British Columbia, Host: Vered Shwartz University of Washington, Host: Zaid Harchaoui Methods for Analyzing (Current) NLP Models	Resolving Abstract Anaphors in Discourse: Uphill Battles with Neural Ranking Models and Automatic Data Extraction	
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	Methods for Analyzing (Current) NLP Models	
		March 2020

Funding

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

Title: "Expressing Uncertainty During Explanation Generation"

MENTORING

PhD Students

Fateme Hashemi Chaleshtori January 2023 – present

BS/MS Researchers

Mugdha AbhyankarJan 2023 – presentRishanth RajendhranNov 2022 – presentJacob JohnsonSep 2022 – presentKaiser Sun with Noah A. Smith \rightarrow META Residency \rightarrow JHU PhDMar 2020 – presentMillicent Li with Noah A. Smith \rightarrow META Residency \rightarrow Northeastern PhDMar 2020 – Aug 2021

PhD Student Collaborators

Ashim Gupta Oct 2022 – present
Akansha Kalra Nov 2022 – December 2022

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

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 – AI2 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

Committee Member

Peter Hase – UNC Chapel Hill

Zhichao Xu

Prince Osei Aboagye

Tianyu Jiang

SERVICE

Co-organizer

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

Senior Area Chair

ACL 2023 EMNLP 2022

Monograph Reviewer

Synthesis Lectures in Human Language Technologies: Explainable Natural Language Processing 2021

Oct 2022

Journal Reviewer

TACL 2017 (secondary reviewer), 2021

Conference Reviewer

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

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

Panelist at COLING 2022 "Performance and Interpretability Evaluations of Multimodal, Multipurpose, Massive-Scale Models" Workshop

Panelist after the movie After Yang that is screened as a part of the STEM Education Film Series by Park City Film

Panelist at ACL Mentorship: "Building NLP datasets" in 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 Community Service

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

PUBLICATIONS

Preprints

• Jack Hessel, **Ana Marasović**, Jena D. Hwang, Lillian Lee, Jeff Da, Rowan Zellers, Robert Mankoff, and Yejin Choi. On Advances in Text Generation from Images Beyond Captioning: A Case Study in Self-Rationalization. arXiv 2022.

Peer-Reviewed Publications

- 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)
- Alexis Ross, Matthew E. Peters, and Ana Marasović. Does Self-Rationalization Improve Robustness to Spurious Correlations? EMNLP 2022.

- 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.
- Ana Marasović*, Iz Beltagy*, Doug Downey, and Matthew E. Peters. Few-Shot Self-Rationalization with Natural Language Prompts. Findings of NAACL 2022. *Equal contributions.
- Sarah Wiegreffe* and **Ana Marasović***. Teach Me to Explain: A Review of Datasets for Explainable NLP. NeurIPS 2021. *Equal contributions.
- Sarah Wiegreffe, **Ana Marasović**, and Noah A. Smith. *Measuring Association Between Labels and Free-Text Rationales*. EMNLP 2021.
- 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.
- Kaiser Sun and Ana Marasović. Effective Attention Sheds Light On Interpretability. Findings of ACL 2021.
- Alexis Ross, **Ana Marasović**, and Matthew E. Peters. *Explaining NLP Models via Minimal Contrastive Editing* (MiCE). Findings of ACL 2021.
- Alexander M. Hoyle, Ana Marasović, and Noah A. Smith. Promoting Graph Awareness in Linearized Graph-to-Text Generation. Findings of ACL 2021.
- 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.
- 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.
- 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.
- 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)
- 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.
- Ana Marasović and Anette Frank. SRL4ORL: Improving Opinion Role Labeling Using Multi-Task Learning with Semantic Role Labeling. NAACL 2018.
- 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.
- Ana Marasović, Leo Born, Juri Opitz, and Anette Frank. A Mention-Ranking Model for Abstract Anaphora Resolution. EMNLP 2017.
- 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.
- Ana Marasović and Anette Frank. Multilingual Modal Sense Classification using a Convolutional Neural Network. Workshop on Representation Learning for NLP (Repl4NLP) 2016.

Blog Posts

- Ana Marasović. NLP's Generalization Problem, and How Researchers Are Tackling It. The Gradient 2018.
- Ana Marasović. BERT-base Transformer Forward Pass. Available at https://www.anamarasovic.com/bert-forward/.

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

• Multilingual Modal Sense Classification using a Convolutional Neural Network

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

 $Dataset:\ \mathrm{http://projects.cl.uni-heidelberg.de/modals/}$

• 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