Ana Marasović, Curriculum Vitae, September 2021 Allen Institute for Artificial Intelligence (AI2) 2157 N Northlake Way, Suite 110 University of Washington Paul G. Allen Center, Office 410 www.anamarasovic.com anam@allenai.org Research Interests Natural Language Processing, Explainable AI, Multimodality **EDUCATION** 2015 - 2019Ph.D. in Computational Linguistics, Heidelberg University Thesis: "Deep Learning With Sentiment Inference For Discourse-Oriented Opinion Analysis" Advisor: Anette Frank Honors: 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 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 • Invited to Rising Stars EECS 2020 at UC Berkeley Professional Experience Postdoctoral Research, University of Washington January 2020 – present Paul G. Allen School of Computer Science & Engineering Host: Noah A. Smith Postdoctoral Research, Allen Institute for Artificial Intelligence March 2019 – present Mentors: Noah A. Smith, Yejin Choi Research Intern, Amazon Berlin Summer 2017 Topic: Neural sentiment domain adaption with multiple source domains Research Intern, Poslovna Inteligencija Summer 2014 Topic: Churn prediction in telecom using social network analysis Invited Talks November 2021 Title TBD Georgia Tech NLP Seminar Title TBD November 2021

University of Washington, Department of Linguistics

BlacboxNLP: Analyzing and interpreting neural networks for NLP @ EMNLP

Reflecting on Interpretability Desiderata with Visual Commonsense Reasoning

November 2019

Teaching Machines Language Understanding

April 2019

Allen School Women's Research Day, University of Washington

Resolving Abstract Anaphors in Discourse: Uphill Battles with Neural Ranking

Models and Automatic Data Extraction

Allen Institute for AI	October 2018
NAACL Workshop on Computational Models of Reference, Anaphora, and Coreference	June 2018
Potsdam University, Applied Computational Linguistics	June 2018
Bochum University, Sprachwissenschaftliches Institut	May 2018

INVITATIONS TO RESEARCH EVENTS

Trustworthy NLP Workshop, Google Research

October 2021

An event that has aimed to bring 30 academics with 30 Googlers to the discuss trustworthy NLP

Machine Learning Impact Initiative Summit, Northwestern University

June 2021

I helped devise a research roadmap focused on the impacts of machine learning on people

Seminar Series, Google Research

October 2020

A discussion about our paper "Don't stop pretraining"

Guest Lectures

Title TBD Spring 2022

University of Washington, Host: Yulia Tsvetkov

Title TBD Autumn 2021

University of Washington, *Host*: Zaid Harchaoui

Methods for Analyzing (Current) NLP Models

March 2020

University of Washington, Host: Noah A. Smith

MENTORING

Mentored 9 students (1 BS, 2 MS, and 6 PhD); 5 submitted papers to top-tier conferences (5 accepted to date)

AI2 Predoctoral Researchers

Alexis Ross with Matthew E. Peters

July 2020 – present

AI2 Interns (PhD students)

Mimansa Jaiswal – University of Michigan	September 2021 – present
Abhilasha Ravichander – Carnegie Mellon University – with Matt Gardner	June 2021 – present
Shruti Palaskar – Carnegie Mellon University	May 2021 - present
Alexander M. Hoyle – University of Maryland – with Noah A. Smith	$June\ 2020-November\ 2020$
Sarah Wiegreffe – Georgia Tech – AI2 Intern of the Year – with Noah A. Smith	May 2020 – October 2020
Zhanming Allan Jie – Singapore Uni. of Technology & Design – with Pradeep Dasigi	June 2019 – August 2019

UW BS/MS Students

Kaiser Sun with Noah A. Smith	March 2020 – present
Millicent Li with Noah A. Smith	March 2020 – August 2021

Co-organizer

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

AllenNLP 2021 Hackathon for Marginalized Communities

AIPHES Scientfic Workshop 2017

Monograph Reviewer

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

Journal Reviewer

Transactions of ACL 2017 (secondary reviewer)

Conference Reviewer

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

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

EACL 2021

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 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 round table 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

Host of the NLP Highlights Podcast in 2021

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

Reader of 2020 PhD applications at the University of Washington

Publications

Peer-Reviewed Publications

- 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, and Matt Gardner.
 Documenting the English Colossal Clean Crawled Corpus. EMNLP 2021.

- Sarah Wiegreffe and Ana Marasović (equal contributions). Teach Me to Explain: A Review of Datasets for Explainable NLP. NeurIPS 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

- 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-classifcation

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

• Matplotlib Examples for Visualizing Paper Results

https://github.com/amarasovic/matplotlib4papers