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Education

[†] *Indicates expected*

2019–2022 [†] Ph.D., Language and Information Technologies, Carnegie Mellon University
Advisors: Zachary C. Lipton and Eduard Hovy

2017–2019 M.S., Language Technologies, Carnegie Mellon University
GPA: 4.06/4.00, Advisor: Eduard Hovy

2013–2017 B.E., Computer Engineering, Thapar University
GPA: 9.37/10, Award: IBM Best Student Award

Selected Research and Publications

Overview. Published eight peer-reviewed conference papers and one peer-reviewed workshop paper in machine learning and natural language processing (1 best paper award, two competitive oral and spotlight presentations) in venues such as ICLR, EMNLP, ACL, ICML, and NAACL with additional machine learning and NLP papers in submission. Work in my main line of research includes:

Learning the Difference that Makes a Difference with Counterfactually-Augmented Data (Spotlight). Divyansh Kaushik, Eduard Hovy, Zachary Lipton. International Conference on Learning Representations (ICLR), 2020.

Explaining the Efficacy of Counterfactually Augmented Data. Divyansh Kaushik, Amrith Setlur, Eduard Hovy, Zachary Lipton. International Conference on Learning Representations (ICLR), 2021.

How Much Reading Does Reading Comprehension Require? A Critical Investigation of Popular Benchmarks (Best Paper, Oral). Divyansh Kaushik, Zachary Lipton. Empirical Methods in Natural Language Processing (EMNLP), 2018.

Awards

2022 **Top Reviewer (top 10%).** *Neural Information Processing Systems.*

2022 **Siebel Scholar, Class of 2023.** *Siebel Scholars Foundation.*

2021 **Outstanding Reviewer (top 8%).** *Neural Information Processing Systems.*

2021 **Standout Student Award.** *ALL IN Campus Democracy Challenge.*

2021 **Graduate Research Fellowship.** *Amazon.*

2021 **Outstanding Reviewer.** *International Conference on Learning Representations.*

2020 **Top Reviewer (top 10%).** *Neural Information Processing Systems.*

2020 **Award for national advocacy.** *Students Learn Students Vote Coalition.*

2018 **Best Paper.** *Empirical Methods in Natural Language Processing.*

2017 **Graduate Scholarship.** *Narotam Sekhsaria Foundation.*

Teaching

2022	Head Teaching Assistant: Introduction to NLP	CMU
Mentored projects, created assignments, and held weekly office hours.		
2021	Teaching Assistant: Neural Networks for NLP	CMU
Mentored projects, created assignments, and held weekly office hours.		
2021	Guest Lecture: Neural Networks for NLP	CMU
Guest lecture on bias in NLP systems.		
2020	Teaching Assistant: LTI Colloquium	CMU
Organized talks with speakers from around the world on topics in ML and NLP.		

Mentorship

2021	Masters in Computational Data Science (MCDS) students:	CMU
Anurag Katakkar, Clay Yoo, and Weiqin Wang		
Studying out-of-domain benefits of feature feedback.		
2021	Master of Science in Intelligent Information Systems (MIIS) student:	CMU
Sameer Jain		
Studying the underlying factors influencing out-of-domain robustness of pre-trained language models.		
2020-21	Master of Language Technologies (MLT) student:	CMU
Amrith Setlur		
Explaining the efficacy of counterfactually augmented data.		

Academic Service

2023	Reviewer <i>International Conference on Learning Representations</i> .
2023	Reviewer <i>European Chapter of the Association of Computational Linguistics</i> .
2022	Reviewer <i>Transactions of Machine Learning Research</i> .
2022	Reviewer, Top Reviewer Award <i>Neural Information Processing Systems</i> .
2022	Reviewer <i>Empirical Methods in Natural Language Processing</i> .
2022	DE&I, Accessibility Co-Chair <i>North American Chapter of the Association for Computational Linguistics</i> .
2022	Reviewer <i>Fairness, Accountability, and Transparency</i> .
2022	Reviewer <i>International Conference on Learning Representations</i> .
2021	Reviewer, Outstanding Reviewer Award . <i>Neural Information Processing Systems</i> .
2021	Reviewer . <i>Empirical Methods in Natural Language Processing</i> .
2021	Reviewer . <i>Association for Computational Linguistics</i> .
2021	Reviewer . <i>North American Chapter of the Association for Computational Linguistics</i> .
2021	Reviewer, Outstanding Reviewer Award . <i>International Conference on Learning Representations</i> .
2021	Area Chair . <i>ICLR Responsible AI Workshop</i> .
2021	Reviewer . <i>ACM Conference on Fairness, Accountability and Transparency</i> .
2020	Reviewer, Top Reviewer Award . <i>Neural Information Processing Systems</i> .
2020	Organizer . <i>Human & Machine in The Loop Evaluation & Training Strategies Workshop</i> .

2020 **Backup Reviewer.** *Association for Computational Linguistics.*

2020 **Reviewer.** *Association for Computational Linguistics Student Research Workshop.*

2020 **Backup Reviewer.** *Empirical Methods in Natural Language Processing.*

2020 **Reviewer.** *Empirical Methods in Natural Language Processing Insights Workshop.*

2020 **Reviewer.** *Conference on Natural Language Learning.*

2019 **Reviewer.** *Conference on Natural Language Learning.*

2019 **Reviewer.** *Association for Computational Linguistics Student Research Workshop.*

Invited Talks

Resolving the Human Subjects Status of Machine Learning’s Crowdworkers.

Stanford University, Palo Alto CA Aug. 2022

Learning the Difference that Makes a Difference With Counterfactually Augmented Data.

Bar-Ilan University, Israel April 2021

Amazon AWS ML Services (Palo Alto, New York, Berlin) June 2021

Robustifying NLP With Humans In The Loop.

Morgan Stanley Financial Services, NY Sep. 2021

Georgia Tech University Mar. 2022

University of California at Berkeley Apr. 2022

Leveraging Your Scientific Expertise for Policymaking

Massachusetts Institute of Technology, MA. April 2021

University of Kentucky, KY. Nov. 2019

Lehigh University, PA. April 2019

National Science Policy Network June 2022

Press & Interviews

Dynabench.

MIT Tech Review. *Facebook wants to make AI better by asking people to break it.* Aug 2020

Engadget. *Facebook’s new benchmarking system asks humans to interrogate AIs.* Aug 2020

Wired. *Go Ahead, Try to Sneak Bad Words Past AI Filters for Research.* Aug 2020

Student Advocacy.

The Tartan. *Title IX under review.* Mar. 2021

PublicSource. *I came to Pittsburgh for higher education in 2017. It’s time to undo the harm Trump’s rhetoric and policies brought to international students.* Dec. 2020

US News. *Study: International Student Numbers in U.S. Drop.* Nov. 2020

Mother Jones. *Betsy DeVos Rewrote Campus Sexual Assault Rules, But Survivor Activists Aren’t Backing Down.* Aug 2020

Pittsburgh Tribune Review. *Pennsylvania, Pittsburgh, students join effort to overturn ICE rule to deport international students.* July 2020

The Tartan. *Frustration with CMU Administration: An Ineffective Response to Racism on Campus.* June 2020

Politico. *Grad Students Urge Against Limiting OPT Program.* June 2020

Chronicle of Higher Education. *Trump Suspends Temporary Work Visas but—for Now—Leaves Alone a Program for International Students.* June 2020

The Tech. *Graduate students write letter to Trump in support of OPT and international students.* June 2020

Pittsburgh Tribune Review. *Pennsylvania, Pittsburgh, students join effort to overturn ICE rule to deport international students.* June 2020

PublicSource. *Planning amid the pandemic: An effort to steer Oakland's development may have to reflect the new reality.* April 2020

PBS Newshour. *Student scientists, athletes and artists miss opportunities when learning moves online.* Mar. 2020

Op-Eds

- [1] **High Skills Immigration A National Security Issue.** National Defense Magazine.
- [2] **A Step Forward in Mitigating Existential Threats.** Federation of American Scientists.
- [3] **Stop Turning Away The Next Einsteins.** The Dispatch.
- [4] **Looking Beyond the Ballot Box: A Holistic View of Nonpartisan Democratic Engagement.** Forbes.
- [5] **Attracting (and Keeping) the Best and the Brightest.** Issues in Science and Technology.
- [6] **I came to Pittsburgh for higher education in 2017. It's time to undo the harm Trump's rhetoric and policies brought to international students.** PublicSource.

Policy Memos

- [1] **Improving Graduate Student Mentorship by Investing in Traineeship Grants.** Institute for Progress and Day One Project.

Peer Reviewed Publications

- [1] **Practical Benefits of Feature Feedback Under Distribution Shift.** Anurag Katakkar, Clay Yoo, Weiqin Wang, Zachary Lipton, Divyansh Kaushik. BlackboxNLP Workshop, 2022.
- [2] **Impact of International Scientists, Researchers, and Students on the Research Output of U.S. Universities. (Journal Cover)** Sarah M. Rovito, Divyansh Kaushik, Surya D. Aggarwal. MIT Science Policy Review, 2021.
- [3] **On the Efficacy of Adversarial Data Collection for Question Answering: Results from a Large-Scale Randomized Study.** Divyansh Kaushik, Douwe Kiela, Zachary Lipton, Scott Yih. Association for Computational Linguistics (ACL; Oral), 2021.
- [4] **Dynabench: Rethinking Benchmarking in NLP.** Douwe Kiela, Max Bartolo, Yixin Nie, Divyansh Kaushik, Atticus Geiger, Zhengxuan Wu, Bertie Vidgen, Grusha Prasad, Amanpreet Singh, Pratik Ringshia, Zhiyi Ma, Tristan Thrush, Sebastian Riedel, Zeerak Waseem, Pontus Stenetorp, Robin Jia, Mohit Bansal, Christopher Potts, Adina Williams. North American Chapter of the Association for Computational Linguistics (NAACL), 2021.
- [5] **Explaining the Efficacy of Counterfactually Augmented Data.** Divyansh Kaushik, Amrith Setlur, Eduard Hovy, Zachary Lipton. International Conference on Learning Representations (ICLR), 2021.
- [6] **Learning the Difference that Makes a Difference with Counterfactually-Augmented Data (Spotlight).** Divyansh Kaushik, Eduard Hovy, Zachary Lipton. International Conference on Learning Representations (ICLR), 2020.
- [7] **Domain Adaptation with Asymmetrically-Relaxed Distribution Alignment.** Yifan Wu, Ezra Winston, Divyansh Kaushik, Zachary Lipton. International Conference on Machine Learning (ICML; Oral), 2019.

- [8] **How Much Reading Does Reading Comprehension Require? A Critical Investigation of Popular Benchmarks (Best Paper).** Divyansh Kaushik, Zachary Lipton. Empirical Methods in Natural Language Processing (EMNLP; **Oral**), 2018.
- [9] **Making Travel Smarter: Extracting Travel Information From Email Itineraries Using Named Entity Recognition.** Divyansh Kaushik, Shashank Gupta, Chakradhar Raju, Reuben Dias, Sanjib Ghosh. Recent Advances in Natural Language Processing (RANLP), 2017.
- [10] **Application of Data Mining for High Accuracy Prediction of Breast Tissue Biopsy Results.** Divyansh Kaushik, Karamjit Kaur. Digital Information Processing, Data Mining, and Wireless Communications (DIPDMWC), 2016.

Preprints

- [1] **Resolving Human Subjects Status of Machine Learning's Crowdworkers** Divyansh Kaushik, Zachary Lipton, Alex John London.

Works In Progress

- [1] **Evaluating Reliability of Evidence Extractors Under Plausible Distribution Shifts.** Divyansh Kaushik, Bilal Zafar, Matthew Lease, Zachary Lipton, Krishnaram Kenthapadi.

Work Experience

- 2022 Research Intern, Salesforce**
Creating a toolkit to perform human evaluations of generative models.
- 2021 Research Intern, Amazon AWS**
Studying the robustness and reliability of interpretability methods in NLP.
- 2020 Student Researcher, Facebook AI Research**
Studying adversarial data collection and potential benefits vis-a-vis generalization out-of-domain.
- 2020 Research Intern, Facebook AI Research**
Helped build Dynabench and studied adversarial data collection.
- 2017 Research Intern, Amadeus**
Studied named entity recognition in travel itineraries.

Civic Engagement and Service on University Committees

- 2021-2023 President**, Carnegie Mellon University Graduate Student Assembly
- 2019-2022 Steering Committee Member**, City of Pittsburgh's Oakland Neighborhood Plan
- 2019-2021 Vice President (External Affairs)**, Carnegie Mellon University Graduate Student Assembly
- 2021 Founding Member**, White House COVID-19 Community Corps
- 2021 Advisory Board Member**, Students Learn Students Vote Coalition
- 2021-2022 Member**, University-Leadership Students Advisory Council
- 2021-2022 Graduate Student Representative**, University Hourly-Wage Workers Compensation Working Group

2021-2022	Graduate Student Representative , University Academic Calendar Innovation Committee
2021	Graduate Student Representative , LTI Faculty Hiring Student Advisory Group
2020-2021	Member , University-Leadership Students Advisory Council
2018-2019	Chair of Federal Advocacy , Carnegie Mellon University Graduate Student Assembly
2018	Search Committee Member , University Search Committee for the Executive Director of Counseling and Psychological Services
2018-2019	Member , University-Leadership Students Advisory Council

References

Available on request.