The Sixth Workshop on Teaching NLP

Proceedings of the Workshop

August 15, 2024
The TeachNLP organizers gratefully acknowledge the support from the following sponsors.

**Gold Level**

![Apple Logo](image-url)
Introduction

Welcome to the Sixth Workshop on Teaching Natural Language Processing (NLP). This hybrid workshop featured an exciting mix of papers, teaching material submissions, panels, talks, and participatory activities.

Educators designing NLP courses and degree programs are facing unique challenges due to the fast-paced progress and growth of the field. This growth has led to the creation and revision of NLP courses, and related programs, as well as new best practices and educational materials focused on emerging subareas. For the sixth edition of the workshop, we were bringing together the communities of NLP research and education to share best practices one can use to share tools and resources for NLP education, as well as to discuss some core challenges, including approaches to facilitating meaningful conversations about language among Computer Science (CS) students, or designing NLP curricula that include user-centered design, while equipping students with the ability to advance responsible and ethical NLP.

We were happy to accept 9 long papers and 9 short papers on teaching materials. The latter were accompanied by exercises and assignments as Jupyter notebooks, software, slides, and teaching guidelines that we hope to make available via a repository created as result of the workshop. Both types of papers cover many topics: course and curriculum design, project-based learning, homeworks and assignments, low-resource languages, and - following NLP trends - Large Language Models.

Our workshop featured Karén Fort (LORIA, France) who presented work on teaching ethics in the context of NLP. Our workshop also included a panel discussion featuring David Adelani (McGill University, Canada), Lori Levin (Carnegie Mellon University (CMU), USA), Graham Neubig (CMU), Aiala Rosá (University of the Republic, Uruguay), and Sherry Wu (CMU).

We thank the Program Committee, who thoughtfully reviewed the submitted papers. We also appreciate the sponsorship funding we received from Apple. Finally, we thank the workshop participants, whose interest in teaching allow us to establish and grow the next generation of NLP researchers and practitioners.

- Sana Sabah Al-azzawi, Laura Biester, György Kovács, Ana Marasović, Leena Mathur, Margot Mieskes, and Leonie Weissweiler (the co-organizers)
Organizing Committee

Organizers

Sana Al-azzawi, Luleå University of Technology
Laura Biester, Middlebury College
György Kovács, Luleå University of Technology
Ana Marasović, University of Utah
Leena Mathur, Carnegie Mellon University
Margot Mieskes, University of Applied Sciences, Darmstadt
Leonie Weissweiler, University of Texas at Austin
Program Committee

Reviewers

Thomas Arnold, Technische Universität Darmstadt
Gábor Berend, University of Szeged
Amanda Bertsch, Carnegie Mellon University
Jason Eisner, Microsoft and Johns Hopkins University
Richard Farkas, University of Szeged
Catherine Finegan-Dollak, University of Richmond
Jennifer Foster, Dublin City University
Annemarie Friedrich, University of Augsburg
Venkata Subrahmanyan Govindarajan, Ithaca College
Amir Hossein Kargaran, Ludwig-Maximilians-Universität München
Brielen Madureira, University of Potsdam
Ted Pedersen, University of Minnesota, Duluth
Alexandra Schofield, Harvey Mudd College
Sofia Serrano, Lafayette College
Shane Storks, University of Michigan
Sowmya Vajjala, National Research Council Canada
Jannis Vamvas, University of Zurich
Veronika Vincze, University of Szeged
Shira Wein, Amherst College
Winston Wu, University of Hawaii at Hilo
Torsten Zesch, Fernuniversität in Hagen
# Table of Contents

**Documenting the Unwritten Curriculum of Student Research**  
Shomir Wilson .......................................................... 1

**Example-Driven Course Slides on Natural Language Processing Concepts**  
Natalie Parde .......................................................... 4

**Industry vs Academia: Running a Course on Transformers in Two Setups**  
Irina Nikishina, Maria Tikhonova, Viktoriia A. Chekalina, Alexey Zaytsev, Artem Vazhentsev and Alexander Panchenko .......................................................... 7

**Striking a Balance between Classical and Deep Learning Approaches in Natural Language Processing Pedagogy**  
Aditya Joshi, Jake Renzella, Pushpak Bhattacharyya, Saurav Jha and Xiangyu Zhang .......... 23

**Co-Creational Teaching of Natural Language Processing**  
John Philip McCrae ...................................................... 33

**Collaborative Development of Modular Open Source Educational Resources for Natural Language Processing**  
Matthias Aßenmacher, Andreas Stephan, Leonie Weissweiler, Erion Çano, Ingo Ziegler, Marvin Härttrich, Bernd Bischl, Benjamin Roth, Christian Heumann and Hinrich Schütze ....................... 43

**From Hate Speech to Societal Empowerment: A Pedagogical Journey Through Computational Thinking and NLP for High School Students**  
Alessandra Teresa Cignarella, Elisa Chierchiello, Chiara Ferrando, Simona Frenda, Soda Marem Lo and Andrea Marra .......................................................... 54

**Tightly Coupled Worksheets and Homework Assignments for NLP**  
Laura Biester and Winston Wu ...................................... 66

**Teaching LLMs at Charles University: Assignments and Activities**  
Jindřich Helcl, Zdeněk Kasner, Ondřej Dušek, Tomasz Limisiewicz, Dominik Macháček, Tomáš Musil and Jindřich Libovický ....................................................... 69

**Empowering the Future with Multilinguality and Language Diversity**  
En-Shiun Annie Lee, Kosei Uemura, Syed Mekael Wasti and Mason Shipton ..................... 73

**A Course Shared Task on Evaluating LLM Output for Clinical Questions**  
Yufang Hou, Thy Thy Tran, Doan Nam Long Vu, Yiwen Cao, Kai Li, Lukas Rohde and Iryna Gurevych ............................................................................. 77

**A Prompting Assignment for Exploring Pretrained LLMs**  
Carolyn Jane Anderson .................................................. 81

**Teaching Natural Language Processing in Law School**  
Daniel Braun ............................................................... 85

**Exploring Language Representation through a Resource Inventory Project**  
Carolyn Jane Anderson .................................................. 91

**BELT: Building Endangered Language Technology**  
Michael Ginn, David R. Saavedra-Beltrán, Camilo Robayo and Alexis Palmer ..................... 94