Pavlo Kuchmiichuk

linkedin.com/in/pkuchmiichuk/ ◇ pkuchmiichuk.com ◇ pavlo.kuchmiichuk@gmail.com

EXPERIENCE

FACTS.lab   09/2023 – Present
Research Assistant

- Investigate how formal semantics and computational methods can inform and advance each other.
- Design and train neural grammar induction parsers using PyTorch and AI2Tango as part of the Logical Form Induction (LoFI) project.

Grammarly (now Superhuman)   10/2018 – 08/2022
Computational Linguist

- Developed suggestions for grammatical error correction, style improvement, clarity, consistency, tone, and inclusive language, using statistical, rule-based, and ML-based NLP methods.
- Worked with large corpora, conducted research, and designed new algorithms to improve core product performance.
- Led a sub-team of computational linguists working on a specific project; was responsible for project planning, supervision, and prioritization.
- Participated in the creation of UA-GEC corpus, conducting linguistic annotation quality control as well as developing processing algorithms.

EDUCATION

University of Rochester   05/2024 – Present
PhD Student, Computer Science

University of Rochester   09/2022 – 05/2024
MS, Computational Linguistics

Master's project: "Toward Logical Form Induction:
    Encoding and Decoding Types"

Taras Shevchenko National University of Kyiv   09/2020 – 05/2022
MA, Applied Linguistics
(Translation, Editing, and Expert Linguistic Analysis)

Thesis: "Automatic error correction in Ukrainian text
with the help of machine learning models"

Taras Shevchenko National University of Kyiv   **09/2016 – 06/2020**
BA, Applied Linguistics and the English Language

Thesis: "Automatic detection and correction of spelling errors
in Ukrainian text based on the noisy channel model"

TEACHING

University of Rochester   **01/2025 – Present**
Graduate Teaching Assistant

- CSC186: Video Game Development (Spring 2025)
- CSC252/452: Computer Organization (Fall 2025)
- CSC186: Video Game Development (Spring 2026)

HONORS AND AWARDS

Fulbright Graduate Student Program   **09/2022 – 05/2024**
Study grant

All-Ukrainian Student Olympiad in Applied Linguistics   **2019**
First place award

All-Ukrainian Student Olympiad in Applied Linguistics   **2018**
Second place award

PUBLICATIONS AND PRESENTATIONS

- William Walden, **Pavlo Kuchmiichuk**, Alexander Martin, Chihsheng Jin, Angela Cao, Claire Sun, Curisia Allen, and Aaron Steven White. 2025. [Cross-Document Event-Keyed Summarization](). In *Proceedings of the 1st Joint Workshop on Large Language Models and Structure Modeling (XLLM 2025)*, pages 218–241, Vienna, Austria. Association for Computational Linguistics.
- William Gantt, Alexander Martin, **Pavlo Kuchmiichuk**, and Aaron Steven White. 2024. [Event-Keyed Summarization](). In *Findings of the Association for*

Computational Linguistics: EMNLP 2024, pages 7333–7345, Miami, Florida, USA. Association for Computational Linguistics.

- **Pavlo Kuchmiichuk**. 2023. [Silver Data for Coreference Resolution in Ukrainian: Translation, Alignment, and Projection](#). In *Proceedings of the Second Ukrainian Natural Language Processing Workshop (UNLP)*, pages 62–72, Dubrovnik, Croatia. Association for Computational Linguistics.
- Oleksiy Syvokon, Olena Nahorna, **Pavlo Kuchmiichuk**, and Nastasiia Osidach. 2023. UA-GEC: [Grammatical Error Correction and Fluency Corpus for the Ukrainian Language](#). In *Proceedings of the Second Ukrainian Natural Language Processing Workshop (UNLP)*, pages 96–102, Dubrovnik, Croatia. Association for Computational Linguistics.
- **Pavlo Kuchmiichuk**. 2019. Automatic analysis of news values in headline texts of Internet news [Conference presentation]. *13th International Scientific Conference "Language as the world of worlds. Grammar and poetics of text structures"*, Kyiv, Ukraine.
- Oksana Zuban and **Pavlo Kuchmiichuk**. 2018. Avtomatychnyi tematychnyi poshuk tekstovykh sehmentiv z vykorystanniam modeli WORD2VEC [Automatic thematic text segment search using WORD2VEC model]. In *Proceedings of the 5th International scientific-practical conference "Information Technologies and Interaction" (IT&I'2018)*, pages 186–188, Kyiv, Ukraine.
- **Pavlo Kuchmiichuk.** 2017. Avtomatyzatsiia skladopodilu ukrainskykh sliv [Automatization of the syllable division of Ukrainian words]. In *Ukrainian Linguistics, 47/2*, pages 34–42, Kyiv, Ukraine.

SKILLS

Languages: Ukrainian (native), English (fluent), German (advanced)

Programming Languages: Python, Clojure, Common Lisp

Tools & Libraries: PyTorch, HuggingFace, AI2Tango, Git, Emacs