

# DI WU

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## EDUCATION

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**University of California, Los Angeles**

Los Angeles, CA, USA

*Ph.D. in Computer Science*

09/2022 - present

*UCLANLP Group (with Prof. Kai-Wei Chang)*

- Overall GPA: **4.000/4.000**
- Research Interests: retrieval-augmented language models, text generation evaluation, keyphrase generation

**University of California, Los Angeles**

Los Angeles, CA, USA

*B.S. in Computer Science, Summa Cum Laude*

08/2018 - 06/2022

- Overall GPA: **3.973/4.000**

## RESEARCH EXPERIENCE

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**UCLA NLP Lab**

Los Angeles, CA, USA

*Student Researcher, Supervisor: Prof. Kai-Wei Chang*

02/2021 - present

- Research on neural keyphrase generation methods and their evaluation.
- Research on building robust and reliable evaluation metrics for text generation.
- Collaborate with Taboola. Using an internal dataset as the use case, experiment with keyphrase generation and adaptation methods and compare with the company's working pipeline.

**The Ozcan Research Group, UCLA**

Los Angeles, CA, USA

*Student Research Assistant, Supervisor: Prof. Aydogan Ozcan*

09/2019 - 06/2022

- Researched on virtual staining of skin tissues with an emphasis on Basal Cell Carcinoma. Designed methods to improve both single-image quality and temporal coherence of the predictions.
- Explored dataset engineering and data augmentation methods to mitigate class imbalance.

## PUBLICATIONS

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Li, Y., Gu, J. C., **Wu, D.**, Chang, K. W., Peng, N., 2024. BRIEF: Bridging Retrieval and Inference via Multi-hop Reasoning and Compression. *Findings of the ACL: NAACL 2025*.

**Wu, D.**, Wang, H., Yu, W., Zhang, Y., Chang, K. W., Yu, D., 2024. LongMemEval: Benchmarking Chat Assistants on Long-Term Interactive Memory. *ICLR 2025*.

**Wu, D.**, Gu, J. C., Yin, F., Peng, N., and Chang, K. W., 2024. Synchronous Faithfulness Monitoring for Trustworthy Retrieval-Augmented Generation. *EMNLP 2024*.

Wan, Y., **Wu, D.**, Wang, H., and Chang, K. W., 2024. The Factuality Tax of Diversity-Intervened Text-to-Image Generation: Benchmark and Fact-Augmented Intervention. *EMNLP 2024*.

**Wu, D.**, Shen, X., and Chang, K. W., 2024. MetaKP: On-Demand Keyphrase Generation. *Findings of the ACL: EMNLP 2024*.

**Wu, D.**, Yin, D., and Chang, K. W., 2024. KPEval: Towards Fine-grained Semantic-based Keyphrase Evaluation. *Findings of the ACL: ACL 2024*.

**Wu, D.**, Ahmad, W. U., Zhang, D., Ramanathan, M. K., and Ma, X., 2023. Repoformer: Selective Retrieval for Repository-level Code Completion. *ICML 2024*.

**Wu, D.**, Ahmad, W. U., and Chang, K. W., 2023. On Leveraging Encoder-only Pre-trained Language Models for Effective Keyphrase Generation. *LREC-COLING 2024*.

Li, Y., Pillar, N., Li, J., Liu, T., **Wu, D.**, Sun, S., Ma, G., de Haan, K., Huang, L., Zhang, Y. and Hamidi, S., 2024. Virtual histological staining of unlabeled autopsy tissue. *Nature Communications*, 15(1), p.1684.

**Wu, D.**, Ahmad, W. U., and Chang, K. W., 2023. Rethinking Model Selection and Decoding for Keyphrase Generation with Pre-trained Sequence-to-Sequence Models. *EMNLP 2023*.

Kung, P., Yin F., **Wu, D.**, Chang, K. W., and Peng N., 2023. Active Instruction Tuning: Improving Cross-Task Generalization by Training on Prompt Sensitive Tasks. *EMNLP 2023*.

**Wu, D.**, Ahmad, W. U., and Chang, K. W., 2023. Pre-trained Language Models for Keyphrase Generation: A Thorough Empirical Study. *Preprint*.

**Wu, D.**, Ahmad, W. U., Dev, S., and Chang, K. W., 2023. Representation Learning for Resource-Constrained Keyphrase Generation. *Findings of the ACL: EMNLP 2022*.

Li, J., Garfinkel, J., Zhang, X., **Wu, D.**, Zhang, Y., de Haan, K., Wang, H., Liu, T., Bai, B., Rivenson, Y., Rubinstein, G., Scumpia, P., and Ozcan, A., 2023. Biopsy-free in vivo virtual histology of skin using deep learning. *Light: Science & Applications*, 10(1), 1-22.

## INTERNSHIP EXPERIENCE

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### Tencent AI Lab

Bellevue, WA, USA

*Research Intern; Mentors: Hongwei Wang, Wenhao Yu*

06/2024 - 09/2024

- Researched on long-term memory for chat assistants and built a large-scale high-quality evaluation benchmark.
- Designed indexing strategies for improving long-term memory retrieval performance.

### AWS AI Labs

New York, NY, USA

*Applied Scientist Intern; Mentors: Wasi Ahmad, Dejiao Zhang*

06/2023 - 09/2023

- Researched on improving retrieval-augmented code language models for repository-level code completion.
- Formulated the task of selective retrieval-augmented infilling. Designed approaches from the perspective of in-repository code retrievers and the code generator models.
- The designed model achieves no performance loss with only 10% of retrieval budget.

### Microsoft Research Asia

Beijing, China

*Research Intern; Mentor: Ning Shang*

04/2021 - 09/2021

- Researched on model compression and AutoML. Contributed to the open source project [NNI](#).

### NewsBreak

Beijing, China

*Natural Language Processing Intern*

07/2020 - 10/2020

- Worked on a hierarchical multi-label classification problem with 268 categories. Improved the f1-score by 49% with multiple statistical and deep learning methods.
- Improved the performance of model pre-training, fine-tuning, and online serving pipelines.

## TEACHING

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Teaching Assistant

- UCLA CS 33, Introduction to Computer Organization, Fall 2023, with Prof. Glenn Reinman.
- UCLA CS 33, Introduction to Computer Organization, Spring 2024, with Prof. Glenn Reinman.
- UCLA CS 33, Introduction to Computer Organization, Fall 2024, with Prof. Tony Nowatzki.

## SERVICES AND AWARDS

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- Reviewer: ACL 2023, EMNLP 2023, AAAI 2023-2025, JAIR, ACL Rolling Review.
- Outstanding Reviewer, EMBLP 2024.
- UCLA HSSEAS Dean's List, 8 times, 2018-2022.