

Maria Teleki

 mariateleki |  Maria Teleki |  mariateleki |  mariateleki.github.io
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SUMMARY

Howdy! I'm a third-year PhD Student in Computer Science at Texas A&M University (gig em!) in InfoLab, advised by Prof. James Caverlee.

My research focuses on algorithms for natural language processing in spoken contexts. I work with large language models, automatic speech recognition systems, and psycholinguistic theories. I also study content differences – i.e., scripted vs. unscripted content, and gender differences.

My work is supported by an Avilés-Johnson Fellowship in CSE.

EDUCATION

2022 - Present	PhD Computer Science at Texas A&M University	(GPA: 4.0/4.0)
2017 - 2022	B.S. Computer Science at Texas A&M University	(GPA: 3.9/4.0)
	– <i>Summa Cum Laude</i>	

PUBLICATIONS

Teleki, M., Dong, X., Liu, H., Caverlee, J., (2025). “Masculine Defaults via Gendered Discourse in Podcasts and Large Language Models”. In: *ICWSM 2025*.

Teleki, M., Dong, X., Kim, S., Caverlee, J., (2024). “Comparing ASR Systems in the Context of Speech Disfluencies”. In: *INTERSPEECH*. URL: https://www.isca-archive.org/interspeech_2024/teleki24_interspeech.pdf.

Teleki, M., Dong, X., Caverlee, J., (2024). “Quantifying the Impact of Disfluency on Spoken Content Summarization”. In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation*. URL: <https://aclanthology.org/2024.lrec-main.1175.pdf>.

Chaudhury, R., **Teleki, M.**, Dong, X., Caverlee, J., (2024). “DACL: Disfluency Augmented Curriculum Learning for Fluent Text Generation”. In: *Joint International Conference on Computational Linguistics, Language Resources and Evaluation*. URL: <https://aclanthology.org/2024.lrec-main.385.pdf>.

Dong, X., Zhu, Z., Wang, Z., **Teleki, M.**, Caverlee, J., (2023). “Co2PT: Mitigating Bias in Pre-trained Language Models through Counterfactual Contrastive Prompt Tuning”. In: *Findings of EMNLP*. URL: <https://aclanthology.org/2023.findings-emnlp.390.pdf>.

Alfifi, M., Dong, X., Feldman, T., Lin, A., Madanagopal, K., Pethe, A., **Teleki, M.**, Wang, Z., Zhu, Z., Caverlee, J., (2022). “Howdy Y’all: An Alexa TaskBot”. In: *Alexa Prize TaskBot Challenge Proceedings*. URL: <https://www.amazon.science/alexa-prize/proceedings/howdy-yall-an-alexa-taskbot>.

TEACHING

★ indicates that the student was an author on a published paper during the mentorship; ♣ indicates that the student had no publications prior to mentorship; ▲ indicates that the student completed their thesis during the mentorship; ♦ indicates that the student received course credit as part of the mentorship (i.e. CSCE 485).

MS Students

Rohan Chaudhury [★♣▲] – *First Employment: Amazon*
Sai Janjur [♣] –

Undergraduate Students

SooHwan Kim [★♣♦] – *First Employment: UPS*
Oliver Grabner [♣] –
Thomas Docog [♣] –

SERVICE

Reviewer for [ACL ARR](#): Aug 2024, Oct 2024, Dec 2024.
Reviewer for [ICWSM](#): Jan 2024, May 2024, Sep 2024.

AWARDS

- (2022-2026) Dr. Dionel Avilés '53 and Dr. James Johnson '67 Fellowship in Computer Science and Engineering
- (2024) Department Travel Grant – \$1,000
- (2024) [CRA-WP Grad Cohort for Women](#)
- (2017-2021) President's Endowed Scholarship
- (2018) Bertha & Samuel Martin Scholarship

INVITED TALKS

- (2024) *The Other AI: An Intuitive Understanding of Artificial Intelligence* at Texas Tech University School of Veterinary Medicine, Veterinary Business Management Association Club.

WORK

Software Engineering Intern at RetailMeNot May 2021 - August 2021

Used Amazon SageMaker and spaCy to get BERT embeddings for concatenated coupon titles and descriptions. Analyzed the relationship between each dimension of the BERT embeddings and uCTR using Spearman's correlation coefficient, and used principal component analysis to find dimensions with stronger correlations. Created a plan to evaluate these dimensions as possible features for the Ranker algorithm—which does store page coupon ranking—using offline analysis and A/B testing. Taught Data Science Guilds about neural networks, word embeddings, and spaCy.

Volunteer at The Hi, How Are You Project May 2020 - Dec 2020

Developed the “Friendly Frog” Alexa Skill with the organization at the beginning of the COVID-19 pandemic to promote mental health by reading uplifting Daniel Johnston lyrics and the organization's “Happy Habits.”

Software Engineering Intern at RetailMeNot May 2020 - August 2020

Developed the “RetailMeNot DealFinder” Alexa Skill to help users activate cash back offers. Presented on Alexa Skill Development at the Data Science Sandbox with both Valassis and RetailMeNot teams.

Peer Teacher at Texas A&M University Dec 2018 - Dec 2019

Helped students with programming homework and answered conceptual questions by hosting office hours and assisting at lab sessions for CSCE 121 and 181. Created notes with exercises and examples to work through as a group during CSCE 121 reviews.

Applications Engineering Intern at Silicon Labs

May 2019 - August 2019

Designed and implemented the Snooper library using pandas to (1) systemize IC bus traffic snooping (I2C, UART, SPI, etc.) across different snooping devices (Saleae, Beagle, etc.), and (2) translate the traffic to a human-readable form for debugging purposes. Responded to multiple tickets from customers using the library.

Afterschool Instructor at The Y (YMCA)

Sep 2016 - July 2017

Taught multiple weekly classes at local elementary schools for the YMCA Afterschool program, and authored Lego Mindstorms Robotics and “Crazy Science” instruction manuals for the program.

MORE

Certifications: (Spring 2023) [G.R.A.D. Aggies Basic Professional Development Certificate](#).

Relevant Coursework: CSCE 670 Information Storage & Retrieval, CSCE 625 Artificial Intelligence, CSCE 489 Special Topics: Recommender Systems, CSCE 421 Machine Learning, CSCE 435/735 Parallel Computing, ECEN 314 Signals and Systems, MATH 411 Mathematical Probability, MATH 308 Differential Equations, MATH 311 Topics in Applied Math I (Linear Algebra), PHIL 482 Ethics and Engineering.

Skills: Python, HuggingFace, NumPy, PyTorch, TensorFlow, Pandas, ChatGPT API, Conda, Jupyter-Lab, Matplotlib, Seaborn, Scikit-learn, spaCy, SciPy, C++, Bash, Vim.