

# Tania Chakraborty

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## EDUCATION

<b>Ph.D. in Natural Language Processing</b>	<i>Purdue University, West Lafayette, IN</i>	Department of Computer Science	<i>Expected May 2027</i>
<b>MS in Computer Science</b>	<i>Purdue University, West Lafayette, IN</i>	Department of Computer Science	<i>May 2024</i>
<b>B.Sc. in Electrical and Computer Engineering</b>	<i>Purdue University, West Lafayette, IN</i>	School of Engineering and Honors College	<i>May 2019</i>

## PUBLICATIONS

- **VIBE: Can a VLM Read the Room?** Tania Chakraborty, Eylon Caplan, Dan Goldwasser. *Findings of EMNLP 2025*, Suzhou, China.
- **Splits! A Flexible Dataset and Evaluation Framework for Sociocultural Linguistic Investigation** Eylon Caplan, Tania Chakraborty, Dan Goldwasser. *Preprint, under review*.
- **A Large Scale Low-Resource Pronunciation Data Set Mined From Wikipedia** Tania Chakraborty, Manasa Prasad, Theresa Breiner, Sandy Ritchie, Daan van Esch. *arXiv preprint, 2021*.

## WORK EXPERIENCE

<b>Software Engineer, Google TV</b>	<i>Google, Mountain View, CA</i>	<i>Jun 2020 – Jul 2022</i>
•	Designed, developed and maintained back-end infrastructure.	
•	Designed and implemented notification system for Google TV, improving reliability and maintainability.	
•	Contributed to launch of Google TV on iOS, ensuring cross-platform feature parity.	
•	Participated in on-call rotations, troubleshooting and resolving production incidents.	
<b>Engineering Resident, Languages &amp; Linguistics</b>	<i>Google, Mountain View, CA</i>	<i>Jan 2020 – Jun 2020</i>
•	Built large-scale crawler and data processing pipelines to mine pronunciation and linguistic data from Wikipedia.	
•	Automated generation of language rules (G2P mappings), reducing manual effort by 100% when resources existed.	
•	Produced structured linguistic datasets to improve multilingual and low-resource language applications.	
•	Delivered production-ready pipelines for internal use in multilingual linguistic data processing.	
<b>Engineering Resident, Android Security &amp; Privacy</b>	<i>Google, Mountain View, CA</i>	<i>Jul 2019 – Jan 2020</i>
•	Developed nightly monitoring framework for Android app safety system, improving error detection within the team.	
•	Built internal dashboard for real-time tracking of app safety metrics.	
<b>Software Engineer Intern</b>	<i>Oracle, Bangalore, India</i>	<i>May 2018 – Jul 2018</i>
•	Developed rule-based automatic ID verification system for Oracle's Intelligent Document Verification platform.	
•	Built flexible parser to handle multiple ID formats (e.g., driver licenses), improving system adaptability.	

## RESEARCH EXPERIENCE

<b>PhD Student</b>	<i>Purdue University, West Lafayette, IN</i>	<i>Aug 2022 – Present</i>
•	<b>Research Focus:</b> Intersection of AI/NLP, computational social science and reasoning.	
•	Currently working on multilingual and multicultural evaluation frameworks for LLMs, addressing cross-linguistic and cross-cultural variation in NLP.	
•	Developed multimodal NLP methods, including applying vision-language models for sociocultural communication.	
<b>SWE Rotation</b>	<i>Google, Mountain View</i>	<i>Jan 2020 – Jun 2020</i>
•	<b>Research Focus:</b> Low-resource language technologies in the context of Google's <i>Next Billion Users (NBU)</i> initiative.	
•	Investigated data-driven approaches to expand linguistic coverage for underrepresented languages.	
•	Collaborated with linguists to design scalable methods for multilingual knowledge extraction.	
•	Work contributed to subsequent research on low-resource pronunciation datasets (arXiv 2021).	

## TEACHING EXPERIENCE

<b>Course Developer / Mentor</b>	<i>AI Forge, Purdue University</i>	<i>May 2025 – Present</i>
•	Designed generative AI-based course project for senior undergraduates and early graduate students.	
•	Facilitated class projects and mentored individual AI projects.	
<b>Graduate Teaching Assistant</b>	<i>C Programming for Engineers, Purdue</i>	<i>Jan 2023 – May 2025</i>
•	Conducted programming labs and office hours for students.	
•	Mentored undergraduate TAs in lab instruction.	
<b>Undergraduate Teaching Assistant</b>	<i>C Programming for Engineers, Purdue</i>	<i>Jan 2015 – May 2019</i>
•	Conducted labs and undergraduate TA office hours.	