

## Tayarisha Lunch Box Series with Prof. Thema White-Monroe

On March 6, 2025, Tayarisha hosted a lunchbox series featuring Professor Thema Monroe-White, who addressed the topic of intersectional biases in language models and scientific discourse. During her presentation, Professor Monroe-White highlighted the increasing reliance on algorithmic systems across various sectors, underscoring the pressing need to confront the structural inequities embedded within scientific and artificial intelligence (AI) frameworks.

She showcased her research on intersectional race and gender biases present in large language models (LLMs) and scientific discourse. Professor Monroe-White explained how the adoption of emancipatory data practices, empowering algorithmic design principles, and the promotion of responsible innovation can effectively mitigate systemic biases in AI and scientific decision-making. By employing critical quantitative approaches, her research not only advances scientific knowledge but also prioritizes the well-being and needs of marginalized communities.

Her interdisciplinary approach emphasizes the importance of centring lived experiences and personal identities in computational and quantitative methodologies, ensuring that the benefits of science and technology are equitably distributed.

For more on the presentation and discussion, please read the following additional articles:

**Monroe-White, T.** (2021, June). ***Emancipatory data science: a liberatory framework for mitigating data harms and fostering social transformation***. In Proceedings of the 2021 Computers and People Research Conference (pp. 23-30).

Kozlowski, D., Larivière, V., Sugimoto, C. R., & **Monroe-White, T.** (2022). ***Intersectional inequalities in science***. Proceedings of the National Academy of Sciences, 119(2), e2113067119.

Shieh, E., Vassel, F. M., Sugimoto, C., & **Monroe-White, T.** (2024). ***Laissez-faire harms: Algorithmic biases in generative language models***. arXiv preprint arXiv:2404.07475.



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