

# PHILIP LIPPMANN

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Leveraging the knowledge embedded in data to power intelligent systems.

## Education

### Delft University of Technology

Feb. 2022 – present

*PhD in Computer Science*

*Delft, The Netherlands*

- Conducting research to enhance agents based on LLMs, enabling advanced reasoning and planning.
- Developing methods to best utilize the additional context gained from multimodal language models.
- Creating targeted synthetic data methods to improve model reliability, minimizing reliance on manual annotations through robust synthetic data generation.

### Delft University of Technology

Sep. 2018 – Jan. 2022

*MSc in Mechanical Engineering    Grade: 7.0*

*Delft, The Netherlands*

### University of Warwick

Sep. 2015 – Jun. 2018

*BEng in Mechanical Engineering    Grade: 2:1 (Honours)*

*Coventry, United Kingdom*

## Work Experience

### TU Delft Department of Cognitive Robotics

Jun. 2021 – Dec. 2021

*Research Intern*

*Delft, The Netherlands*

- Designed a gaze tracking-based driver monitoring system with behavior prediction for safer highway merging.

### Amazon

Aug. 2020 – Dec. 2020

*Software Development Engineer Intern*

*Berlin, Germany*

- Led the design and implementation of Amazon Telescope, a React and Python-based internal tool, improving issue tracking efficiency across automation tools and enhancing cross-team collaboration.

### MIT/Delft Driverless

Jul. 2019 – Aug. 2020

*Machine Learning Engineer*

*Delft, The Netherlands*

- Utilized GNNs to define motion planning boundaries based on cone positions, improving track limit detection.
- Placed 3rd at Formula Student Germany, the largest student engineering competition in the world.

### WMG

Jun. 2018 – Aug. 2018

*Research Assistant, Multiscale Materials Modelling Group*

*Coventry, United Kingdom*

- Developed a novel numerical chemo-mechanical model to simulate cycling performance and aging of Si Li-ion batteries.

## Publications & Research Activities

### Selected Publications

- [NeurIPS 2024 Language Gamification] *Positive Experience Reflection for Agents in Interactive Text Environments*, 2024. **P. Lippmann**, M.T.J. Spaan, J. Yang    [arXiv:2411.02223](https://arxiv.org/abs/2411.02223)
- [Under Review] *Illuminating Blind Spots of Language Models with Targeted Agent-in-the-Loop Synthetic Data*, 2024. **P. Lippmann**, M.T.J. Spaan, J. Yang    [arXiv:2403.17860](https://arxiv.org/abs/2403.17860)
- [COLING 2025 (Oral)] *Context-Informed Machine Translation of Manga using Multimodal Large Language Models*, 2024. **P. Lippmann**, K. Skublicki, J. Tanner, S. Ishiwatari, J. Yang    [arXiv:2411.02589](https://arxiv.org/abs/2411.02589)

Full list: [Google Scholar](#)

### Awards

- Google Cloud Research Grants (2024)
- Oracle Cloud Research Grant Award (\$50000, 2023)
- Warwick Undergraduate Research Scholarship (£2500, 2018)

### Reviewing

- COLING 2022; SIGIR 2023; HCOMP 2023; EMNLP 2023; AAAI 2024; WWW 2025

## Technical Skills

**Coding:** Python, PyTorch, JAX, React,  $\text{\LaTeX}$     |    **Cloud & Tools:** Git, GCP, Weights & Biases