Philip Lippmann

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Leveraging the knowledge embedded in data to power intelligent systems.

Work Experience

Microsoft Azure AI **Jun. 2025 – present**
Research Scientist Intern *Remote*
- Built a multi-agent synthetic data generation pipeline to produce high-fidelity healthcare data for Dragon Copilot while eliminating PII/PHI exposure and maintaining strict privacy compliance.
- Conducted post-training on OpenAI's GPT family of models for healthcare-specific applications, improving model performance and clinical relevance.

Amazon **Aug. 2020 – Dec. 2020**
Software Development Engineer Intern *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**
Software Engineer *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.

Education

Delft University of Technology **Feb. 2022 – present**
PhD in Computer Science *The Netherlands*
- Analyzed and enhanced reasoning of LLMs, enabling advanced planning in agentic systems.
- Created targeted synthetic data methods to improve model reliability during post-training, 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* *The Netherlands*

University of Warwick **Sep. 2015 – Jun. 2018**
BEng in Mechanical Engineering *Grade: 2:1 (Honours)* *United Kingdom*

Publications & Research Activities

Selected Publications

- [**COLM 2025**] *Style over Substance: Distilled Language Models Reason Via Stylistic Replication*, 2025. P. Lippmann, J. Yang arXiv:2504.01738
- [**LanGame @ NeurIPS 2024**] *Positive Experience Reflection for Agents in Interactive Text Environments*, 2024. P. Lippmann, M.T.J. Spaan, J. Yang arXiv:2411.02223
- [**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
- [**Preprint**] *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

Full list: Google Scholar

Awards

- Google Cloud Research Grant ($1000, 2024)
- Oracle Cloud Research Grant Award ($50000, 2023)
- Warwick Undergraduate Research Scholarship (£2500, 2018)

Open Source Contributions

- Atropos: Language Model Reinforcement Learning Environments Framework
- Biomni: General-purpose Biomedical AI Agent

Technical Skills

Coding: Python, PyTorch, JAX, React, LaTeX | **Cloud & Tools**: Git, Azure, GCP, Weights & Biases