

# Lukas Struppek

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📄 [LukasStruppek](#)

## EDUCATION

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- **Technical University of Darmstadt** 2021–Today  
*Ph.D. in Artificial Intelligence and Machine Learning* Expected: Early 2025
- **Karlsruhe Institute of Technology (KIT)** 2018–2020  
*M.Sc. in Industrial Engineering and Management* Grade: 1.1 (GPA: 3.9), with distinction
- **Karlsruhe Institute of Technology (KIT)** 2015–2018  
*B.Sc. in Industrial Engineering and Management* Grade: 1.1 (GPA: 3.9), with distinction

## RELEVANT EXPERIENCE

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- **German Research Center for Artificial Intelligence (DFKI)** 2024–Today  
*Research Scientist for Foundations of Trustworthy AI Systems* Darmstadt
- **Karlsruhe Institute of Technology (KIT)** 2018–2020  
*Research Assistant in the Applied Technical-Cognitive Systems Group* Karlsruhe
- **Baden-Wuerttemberg Cooperative State University (DHBW)** 2019–2021  
*Lecturer in Software Engineering for Students of Information Systems* Karlsruhe

## SELECTED PUBLICATIONS

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- [1] Hintersdorf, D., **Struppek, L.**, Kersting, K., Dziedzic, A., & Boenisch, F. (2024). *Finding NeMo: Localizing Neurons Responsible For Memorization in Diffusion Models*. **Under Review at NeurIPS**. [[Arxiv Link](#)]
- [2] **Struppek, L.**, Hintersdorf, D., & Kersting, K. (2024). *Be Careful What You Smooth For: Label Smoothing Can Be a Privacy Shield but Also a Catalyst for Model Inversion Attacks*. **ICLR**. [[Arxiv Link](#)]
- [3] **Struppek, L.**, Hintersdorf, D., Friedrich, F., Brack, M., Schramowski, P., & Kersting, K. (2023). *Exploiting Cultural Biases via Homoglyphs in Text-to-Image Synthesis*. **JAIR**. [[Arxiv Link](#)]
- [4] **Struppek, L.**, Hintersdorf, D., & Kersting, K. (2023). *Rickrolling the Artist: Injecting Backdoors into Text Encoders for Text-to-Image Synthesis*. **ICCV**. [[Arxiv Link](#)]
- [5] **Struppek, L.**, Hintersdorf, D., Almeida, A., Adler, A., & Kersting, K. (2022). *Plug & Play Attacks: Towards Robust and Flexible Model Inversion Attacks*. **ICML**. [[Arxiv Link](#)]
- [6] **Struppek, L.**, Hintersdorf, D., Neider, D., & Kersting, K. (2022). *Learning to Break Deep Perceptual Hashing: The Use Case NeuralHash*. **FAcT**. [[Arxiv Link](#)]

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Python, Java

**Developer Tools:** Git, Docker

**Frameworks:** PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Weights & Biases

**Areas of Interest:** Secure, Private & Trustworthy Machine Learning; Generative AI; Multimodal Systems

## POSITIONS OF RESPONSIBILITY

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- **Board Member and Lecturer of EduRef** 2016–2020  
*Education for Refugees e.V., a Non-Profit Association Providing Educational Courses for Refugees*
- **Supervisor of Programming Lectures & Seminars at KIT** 2016–2019  
*Responsible for 40 Teaching Assistants & 700 Students per Semester*

## HONORS & AWARDS

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- **Best Paper Award at ICLR Workshop** 2024
- **Top Reviewer at NeurIPS** 2023
- **Best Paper Award at IEEE Symposium on Security and Privacy Workshop** 2022
- **Faculty Award of KIT Department of Economics and Management** 2022
- **Winner of the Google Impact Challenge** 2018
- **Deutschlandstipendium (Germany Scholarship)** 2017–2019