

# Maksym Andriushchenko – Curriculum Vitae

## General Information

**Site:** <https://andriushchenko.me/>  
**Email:** [maksym@andriushchenko.me](mailto:maksym@andriushchenko.me)

**Scholar:** <https://scholar.google.com/citations?user=ZNtuJYoAAAAJ>  
**Github:** <https://github.com/max-andr/>

## Education

**École Polytechnique Fédérale de Lausanne (EPFL), Switzerland (Sep 2019 - Oct 2024)**

PhD Degree in Computer Science advised by Nicolas Flammarion — *awarded with the Google PhD Fellowship, Open Phil AI PhD fellowship, Patrick Denantes Memorial Prize for the best thesis in the CS department of EPFL*  
Thesis title: “Understanding Generalization and Robustness in Modern Deep Learning”

Committee: Zico Kolter, Sebastian Bubeck, Rachid Guerraoui, Florent Krzakala

**Saarland University, Germany (Oct 2016 – Aug 2019)**

Master’s Degree in Computer Science advised by Matthias Hein from the University of Tübingen

Thesis title: “Provable Adversarial Defenses for Boosting”

**Dnipro National University of Railway Transport, Ukraine (Sep 2012 – June 2016)**

Bachelor’s Degree in Software Engineering — *with honors*

## Work

|                       |  |
|-----------------------|--|
| <b>EPFL</b>           | <b>Time:</b> September 2019 – now<br><b>Role:</b> PhD student → postdoctoral researcher supervised by Nicolas Flammarion.  |
| <b>Gray Swan AI</b>   | <b>Time:</b> February 2024 – November 2024 (part-time consultant)<br><b>Role:</b> Member of technical staff working with leading AI safety organizations (Anthropic, UK AI Safety Institute, Center for AI Safety) |
| <b>Adobe Research</b> | <b>Time:</b> July 2021 – October 2021<br><b>Role:</b> Research internship supervised by John Collomosse  |
| <b>PrivatBank</b>     | <b>Time:</b> November 2015 – June 2016 (part-time)<br><b>Role:</b> Data scientist working on predictive modeling and e-commerce applications   |

## Awards and Grants

|   |   |
|---|---|
| <b>Main awards</b>                        | <b>Patrick Denantes Memorial Prize for the best PhD thesis in the School of Computer and Communication Sciences at EPFL (\$5k award)</b><br>G-Research PhD Thesis Prize in Quantitative Research (2nd place, \$3k award)<br><b>Google PhD fellowship 2022-2025 (\$80k per year for 3 years)</b><br><b>Open Philanthropy AI PhD Fellowship 2022-2024 (\$10k per year for travel/equipment)</b><br>EDIC PhD fellowship from EPFL for the first year (\$60k)<br>DAAD MSc scholarship for 2 years to study at Saarland University (\$20k) |
| <b>Co-authored grants</b>                 | AI Safety Science grant (\$200k funded by Schmidt Sciences in 2025)<br>Safe GenAI via Robust Content Moderation Models (\$100k funded by Google in 2024)<br>Safety, Robustness, and Alignment of LLM agents (\$40k funded by Google in 2024)<br>OpenAI Researcher Access Program (\$5k in API credits in 2024)<br>Google Research Collab 2022-2023 (\$80k for one year + \$20k in cloud compute)  |
| <b>Awards for papers and competitions</b> | <a href="#">Trojan detection challenge</a> at SatML'24: <b>first place</b><br><a href="#">Swiss AI Safety Prize</a> (2024): <b>award for one of the top paper submissions</b><br>Joint Conference of Korean AI Association (2023): <b>best paper award</b><br>ICLR Workshop on Security & Safety in ML Systems (2021): <b>best paper honorable mention</b><br>Swiss Machine Learning Day (2019): <b>best paper award</b>  |

## Press Coverage

- 2025** [Forbes: Embedding LLM Circuit Breakers Into AI Might Save Us From A Whole Lot Of Ghastly Troubles](#)  
[Le Figaro: When ChatGPT Goes Off the Rails, Should We Be Worried?](#)  
[24 heures: When ChatGPT Goes Off the Rails, Should We Be Worried?](#)
- 2024** [SwissInfo: Swiss researchers find security flaws in AI models](#)  
[Le Temps: Bomb making, cannibalism or cyber attacks: it is always possible to ask AI for advice on explosive topics](#)  
[Blick: EPFL discovers security flaws in several AI models](#)  
[TechXplore: Can we convince AI to answer harmful requests?](#)  
[Léman Bleu: EPFL: Security flaws in AI models](#)  
[ActuIA: EPFL study: the limits of LLMs in the face of adaptive attacks](#)

## Academic Service

- Participant** Red teaming of the **OpenAI fine-tuning** service as an external expert (October 2023)  
[Robust AI 4-day workshop](#) organized by Airbus AI Research and TNO (January 2021)
- Reviewer** TMLR, ICLR'25, NeurIPS'24, NeurIPS'23, ICML'23, NeurIPS'22 (**top reviewer**), ICML'22, NeurIPS'21, ICML'21, CVPR'21, ICLR'21 (**outstanding reviewer**), NeurIPS'20 (**top 10% reviewers**)
- Workshop organization** Workshop on Secure and Robust AI Agents: Bridging Machine Learning and Cybersecurity (submitted to **ICLR'25**; organizers: Kamilė Lukošūtė, **Maksym Andriushchenko**, Baturay Saglam, Amanda Minnich, Reza Shokri, Adam Swanda, Amin Karbasi, Yaron Singer, Shafi Goldwasser)
- Program committee in workshops** **NeurIPS'24** Red Teaming GenAI Workshop, **NeurIPS'24** SATA Workshop: Towards Safe & Trustworthy Agents, **NeurIPS'24** 3rd Workshop on New Frontiers in Adversarial ML, **ICML'24** Workshop on the Next Generation of AI Safety, **NeurIPS'23** R0-FoMo Workshop on Robustness of Few-shot and Zero-shot Learning in Foundation Models, **NeurIPS'23** Workshop on Distribution Shifts: New Frontiers with Foundation Models, **ICML'23** 2nd ICML Workshop on New Frontiers in Adversarial ML, **ICLR'23** Workshop on Pitfalls of Limited Data and Computation for Trustworthy ML, **NeurIPS'22** Workshop on Distribution Shifts, **NeurIPS'22** ML Safety Workshop, **ICML'22** New Frontiers in Adversarial ML, **ICML'22** Principles of Distribution Shift, **NeurIPS'21** Distribution Shifts: Connecting Methods and Applications, **ICML'21** Uncertainty and Robustness in Deep Learning, **CVPR'21** Adversarial ML in Real-World Computer Vision Systems, **ICLR'21** Robust and Reliable ML in the Real World, Security and Safety in ML Systems, **ICML'20** Uncertainty and Robustness in Deep Learning, **CVPR'20** Adversarial ML in Computer Vision, **ICLR'20** Towards Trustworthy ML (**best reviewer award**)
- Outreach activities** National coordinator for Switzerland at [#ScienceForUkraine](#)  
Coordinator for Switzerland and admission officer at the [Ukrainian Global University](#)  
AI lectures at a [summer camp](#) for displaced Ukrainian children in Romania

## Selected Publications

- M. Andriushchenko**, A. Souly, M. Dziemian, D. Duenas, M. Lin, J. Wang, D. Hendrycks, A. Zou, Z. Kolter, M. Fredrikson, E. Winsor, J. Wynne, Y. Gal, X. Davies. AgentHarm: A Benchmark for Measuring Harmfulness of LLM Agents ([ICLR 2025](#))
- M. Andriushchenko**, F. Croce, N. Flammarion. Jailbreaking Leading Safety-Aligned LLMs with Simple Adaptive Attacks ([ICLR 2025](#))
- M. Andriushchenko**, N. Flammarion. Towards Understanding Sharpness-Aware Minimization ([ICML 2022](#))
- F. Croce\*, **M. Andriushchenko\***, V. Sehwag\*, E. Debenedetti\*, N. Flammarion, M. Chiang, P. Mittal, M. Hein. RobustBench: a standardized adversarial robustness benchmark ([NeurIPS 2021 Datasets and Benchmarks Track](#), **Best Paper Honorable Mention Prize** at [ICLR 2021 Workshop on Security and Safety in Machine Learning Systems](#))
- M. Andriushchenko\***, F. Croce\*, N. Flammarion, M. Hein. Square Attack: a Query-Efficient Black-Box Adversarial Attack via Random Search ([ECCV 2020](#))

## Full Publication List

- M. Andriushchenko**, A. Souly, M. Dziemian, D. Duenas, M. Lin, J. Wang, D. Hendrycks, A. Zou, Z. Kolter, M. Fredrikson, E. Winsor, J. Wynne, Y. Gal, X. Davies. AgentHarm: A Benchmark for Measuring Harmfulness of LLM Agents ([ICLR 2025](#))
- M. Andriushchenko**, F. Croce, N. Flammarion. Jailbreaking Leading Safety-Aligned LLMs with Simple Adaptive Attacks ([ICLR 2025](#))
- M. Andriushchenko**, N. Flammarion. Does Refusal Training in LLMs Generalize to the Past Tense? ([ICLR 2025](#))
- H. Zhao, **M. Andriushchenko**, F. Croce, N. Flammarion. Is In-Context Learning Sufficient for Instruction Following in LLMs? ([ICLR 2025](#))
- J. Freeman, C. Rippe, E. Debenedetti, **M. Andriushchenko**. Exploring Memorization and Copyright Violation in Frontier LLMs: A Study of the New York Times v. OpenAI 2023 lawsuit ([NeurIPS 2024 Safe Generative AI Workshop](#))
- A. Zou, L. Phan, J. Wang, D. Duenas, M. Lin, **M. Andriushchenko**, R. Wang, Z. Kolter, M. Fredrikson, D. Hendrycks. Improving Alignment and Robustness with Short Circuiting ([NeurIPS 2024](#))
- M. Andriushchenko\***, F. D'Angelo\*, A. Varre, N. Flammarion. Why Do We Need Weight Decay in Modern Deep Learning? ([NeurIPS 2024](#))
- P. Chao\*, E. Debenedetti\*, A. Robey\*, **M. Andriushchenko\***, F. Croce, V. Sehwag, E. Dobriban, N. Flammarion, G.J. Pappas, F. Tramèr, H. Hassani, E. Wong. JailbreakBench: An Open Robustness Benchmark for Jailbreaking Large Language Models ([NeurIPS 2024 Datasets and Benchmarks Track](#))
- J. Rando, F. Croce, K. Mitka, S. Shabalin, **M. Andriushchenko**, N. Flammarion, F. Tramèr. Competition Report: Finding Universal Jailbreak Backdoors in Aligned LLMs ([arXiv, April 2024](#))
- H. Zhao, **M. Andriushchenko**, F. Croce, N. Flammarion. Long Is More for Alignment: A Simple but Tough-to-Beat Baseline for Instruction Fine-Tuning ([ICML 2024](#))
- L. Adilova, **M. Andriushchenko**, M. Kamp, A. Fischer, M. Jaggi. Layer-Wise Linear Mode Connectivity ([ICLR 2024](#))
- M. Andriushchenko**. Adversarial Attacks on GPT-4 via Simple Random Search ([December 2023](#))
- E. Debenedetti, Z. Wan, **M. Andriushchenko**, V. Sehwag, K. Bhardwaj, B. Kailkhura. Scaling Compute Is Not All You Need for Adversarial Robustness ([ICLR 2024 Workshop on Reliable and Responsible Foundation Models](#))
- S. Shin, D. Lee, **M. Andriushchenko**, N. Lee. The Effects of Overparameterization on Sharpness-Aware Minimization: An Empirical and Theoretical Analysis ([arXiv, September 2023](#), **best paper award** at the Joint Conference of Korean Artificial Intelligence Association (2023))
- M. Andriushchenko**, D. Bahri, H. Mobahi, N. Flammarion. Sharpness-Aware Minimization Leads to Low-Rank Features ([NeurIPS 2023](#))
- K. Kireev, **M. Andriushchenko**, C. Troncoso, N. Flammarion. Transferable Adversarial Robustness for Categorical Data via Universal Robust Embeddings ([NeurIPS 2023](#))
- M. Andriushchenko**, F. Croce, M. Müller, M. Hein, N. Flammarion. A modern look at the relationship between sharpness and generalization. ([ICML 2023](#))
- M. Andriushchenko**, A. Varre, L. Pillaud-Vivien, N. Flammarion. SGD with large step sizes learns sparse features ([ICML 2023](#))
- K. Kireev\*, **M. Andriushchenko\***, N. Flammarion. On the effectiveness of adversarial training against common corruptions ([UAI 2022](#))
- Michael Rose, Sanita Reinsone, **Maksym Andriushchenko**, Marcin Bartosiak, Anna Bobak et al. #ScienceForUkraine: an Initiative to Support the Ukrainian Academic Community. “3 Months Since Russia’s Invasion in Ukraine”, February 26 – May 31, 2022 ([SSRN, 2022](#))
- M. Andriushchenko**, N. Flammarion. Towards Understanding Sharpness-Aware Minimization ([ICML 2022](#))
- M. Andriushchenko**, X. Rebecca Li, Geoffrey Oxholm, Thomas Gittings, Tu Bui, Nicolas Flammarion, John Collomosse. ARIA: Adversarially Robust Image Attribution for Content Provenance ([CVPR 2022 Workshop on Media Forensics](#))
- F. Croce, **M. Andriushchenko**, N. Singh, N. Flammarion, M. Hein. Sparse-RS: a versatile framework for query-efficient sparse black-box adversarial attacks ([AAAI 2022](#))
- F. Croce\*, **M. Andriushchenko\***, V. Sehwag\*, E. Debenedetti\*, N. Flammarion, M. Chiang, P. Mittal, M. Hein. RobustBench: a standardized adversarial robustness benchmark ([NeurIPS 2021 Datasets and Benchmarks Track](#), **Best Paper Honorable Mention Prize** at [ICLR 2021 Workshop on Security and Safety in Machine Learning Systems](#))
- M. Mosbach, **M. Andriushchenko**, D. Klakow. On the Stability of Fine-tuning BERT: Misconceptions, Explanations, and Strong Baselines ([ICLR 2021](#))

**M. Andriushchenko\***, F. Croce\*, N. Flammarion, M. Hein. Square Attack: a query-efficient black-box adversarial attack via random search ([ECCV 2020](#))

**M. Andriushchenko**, N. Flammarion. Understanding and Improving Fast Adversarial Training ([NeurIPS 2020](#))

**M. Andriushchenko**, M. Hein. Provably Robust Boosted Decision Stumps and Trees against Adversarial Attacks ([NeurIPS 2019](#), contributed talk at [Workshop on Machine Learning with Guarantees](#); **best paper award** at Swiss Machine Learning Day (2019))

M. Hein, **M. Andriushchenko**, J. Bitterwolf. Why ReLU networks yield high-confidence predictions far away from the training data and how to mitigate the problem (**oral** at [CVPR 2019](#), 5.6% acceptance rate, contributed talk at [ICML 2019 Uncertainty and Robustness in Deep Learning Workshop](#))

F. Croce\*, **M. Andriushchenko\***, M. Hein. Provable Robustness of ReLU Networks via Maximization of Linear Regions ([AISTATS 2019](#))

M. Mosbach\*, **M. Andriushchenko\***, T. Trost, M. Hein, D. Klakow. Logit Pairing Methods Can Fool Gradient-Based Attacks ([NeurIPS 2018 Workshop on Security in ML](#))

M. Hein and **M. Andriushchenko**. Formal Guarantees on the Robustness of a Classifier Against Adversarial Manipulation ([NeurIPS 2017](#))

## References

### 1. Prof. Nicolas Flammarion

École Polytechnique Fédérale de Lausanne  
INJ 336, EPFL Station 14, 1015 Lausanne,  
Switzerland  
[nicolas.flammarion@epfl.ch](mailto:nicolas.flammarion@epfl.ch)

### 2. Prof. Matthias Hein

University of Tübingen  
Room 30-7 / A21, Maria-von-Linden-Str. 6, 72076  
Tübingen, Germany  
[matthias.hein@uni-tuebingen.de](mailto:matthias.hein@uni-tuebingen.de)

### 3. Prof. Zico Kolter

Carnegie Mellon University  
GHC 8002, Carnegie Mellon University, 5000  
Forbes Avenue, Pittsburgh, PA 15213, USA  
[zkolter@cs.cmu.edu](mailto:zkolter@cs.cmu.edu)

### 4. Prof. Eric Wong

University of Pennsylvania  
Levine 506, 3330 Walnut St, Philadelphia,  
PA 19104, USA  
[exwong@cis.upenn.edu](mailto:exwong@cis.upenn.edu)

### 5. Prof. Aleksander Mądry

Massachusetts Institute of Technology  
Office 32-G806, 32 Vassar Street, Cambridge,  
MA 02139, USA  
[madry.letters@mit.edu](mailto:madry.letters@mit.edu)