

# Eduard Zamfir

eduard-sebastian.zamfir@uni-wuerzburg.de | eduardzamfir.github.io

## Education

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- Ph.D. Computer Science**, University of Wurzburg Aug 2022 – Present
- Focus: Computer Vision, Machine Learning
  - Advisor: Prof. Radu Timofte
- M.Sc. Computational Engineering**, Technical University of Darmstadt Apr 2020 – May 2022
- Focus: Computer Vision, Machine Learning
  - Advisor: Prof. Stefan Roth
- B.Sc. and M.Sc. Mechanical Engineering**, Technical University of Darmstadt Oct 2013 – Mar 2020
- Focus: Mechatronics and automotive engineering
  - Completed 114/120 ECTS in M.Sc. Mechanical Engineering

## Publications / Preprints

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1. Y. Tan, J. Shao, **E. Zamfir**, R. Li, Z. An, C. Ma, D. Paudel, L. van Gool, R. Timofte, Z. Wu, “What You Have is What You Track: Adaptive and Robust Multimodal Tracking”, *ICCV*, 2025
2. Y. Tan, Z. Wu, Y. Fu, Z. Zhou, G. Sun, **E. Zamfir**, C. Ma, D. Paudel, L. van Gool, R. Timofte, “XTrack: Multimodal Training Boosts RGB-X Video Object Trackers”, *ICCV*, 2025
3. **E. Zamfir**, Z. Wu, N. Mehta, Y. Tan, D. Paudel, Y. Zhang, R. Timofte, “Complexity Experts are Task-Discriminative Learners for Any Image Restoration”, *CVPR*, 2025.
4. J. Li, Z. Wu, **E. Zamfir**, R. Timofte, “ReCap: Better Gaussian Relighting with Cross-Environment Captures”, *CVPR*, 2025.
5. **E. Zamfir**, Z. Wu, N. Mehta, Y. Zhang, R. Timofte, “See More Details: Efficient Image Super-Resolution by Experts Mining”, *ICML*, 2024.
6. **E. Zamfir**, Z. Wu, N. Mehta, D. Paudel, Y. Zhang, R. Timofte, “Efficient Degradation-aware Any Image Restoration”, *arXiv*, 2024.
7. B. Ren, **E. Zamfir**, Z. Wu, Y. Li, Y. Li, D. Paudel, R. Timofte, M.H. Yang, N. Sebe, “Restore Anything Model with Efficient Degradation Adaptation”, *arXiv*, 2024
8. Z. Fang, A. Ignatov, **E. Zamfir**, R. Timofte, “SQAD: Automatic Smartphone Camera Quality Assessment and Benchmarking”, *ICCV*, 2023.
9. **E. Zamfir**, M. Conde, R. Timofte, “Towards Real-Time 4K Image Super-Resolution”, *CVPRW*, 2023.
10. S. Bahmani\*, O. Hahn\*, **E. Zamfir\***, N. Araslanov, D. Cremers, and S. Roth, “Semantic Self-Adaptation: Enhancing Generalization with a Single Sample”, *TMLR*, 2023.

## Academic Service

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**Reviewer:** CVPR (24/25), ICCV (23/25), NeurIPS (24/25), ICLR (25), ICML (25), TPAMI (23/25), WACV (25), TIP (23), ACM Multimedia (25)

**Conference Workshops:** Co-Organizer Real-Time 4K Super-Resolution Challenge, NTIRE@CVPR 2023 and Efficient Super-Resolution Challenge, NTIRE@CVPR 2024

**Teaching Assistant:** Computer Vision, Image Processing and Computational Photography

## Research Experience

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- Master Thesis at Visual Inference Lab, TU Darmstadt** Nov 2021 – May 2022
- Exploiting non-local dependencies for image restoration using attribution priors
  - Advisors: Robin Hesse, Prof. Stefan Roth

<b>Student Research Assistant at Visual Inference Lab, TU Darmstadt</b> <ul style="list-style-type: none"> <li>• Domain generalization for semantic segmentation</li> <li>• Advisors: Nikita Araslanov, Prof. Stefan Roth</li> </ul>	Sep 2020 – Sep 2021
<b>Student Research Assistant at Fraunhofer LBF</b> <ul style="list-style-type: none"> <li>• HiL-testbench for driving dynamics simulations</li> <li>• Advisors: Riccardo Bartolozzi, Prof. Tobias Melz</li> </ul>	Apr 2019 – Apr 2020
<b>Bachelor Thesis at Institute for Mechatronic Systems, TU Darmstadt</b> <ul style="list-style-type: none"> <li>• Simulation of hybrid energy storage systems for industrial applications</li> <li>• Advisor: Prof. Stefan Rinderknecht</li> </ul>	Apr 2017 – Oct 2017

## Work Experience

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<b>Intern at Porsche Engineering Group</b> <ul style="list-style-type: none"> <li>• Driving Performance Team: Software engineering for driving dynamics simulation</li> </ul>	Aug 2018 – Feb 2019
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## Academic Supervision

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<b>Student Project:</b> Roman Kochnev, University of Wurzburg <ul style="list-style-type: none"> <li>• Topic: Dynamic Vision Models for Image Restoration</li> <li>• Co-Supervisors: Prof. Radu Timofte</li> </ul>	Ongoing
<b>Master Thesis:</b> Tobias Brandner, University of Wurzburg <ul style="list-style-type: none"> <li>• Topic: Real-Time Rendering Super Resolution with Unreal Engine 5</li> <li>• Co-Supervisor: Prof. Radu Timofte, Nancy Mehta</li> </ul>	2024