

Klára Janoušková

Prague, Czech Republic · klara.janou@gmail.com · [LinkedIn](#) · [GitHub](#) · [Google Scholar](#)

Computer vision researcher with a diverse background spanning both academic and industrial settings, thriving on interdisciplinary research. Currently focused on vision-language model (VLM) adaptation, trustworthy benchmarks, and RL for visual object tracking. Has co-lead multiple research projects from conception to publication.

Education

Ph.D. in Computer Vision & Machine Learning — *Czech Technical University in Prague* 2023 – present

- Supervisor: Prof. [Jiří Matas](#)
- Passed state doctoral exams with distinction (top 10%)

M.Sc. in Computer Science, graduated with honors — *Czech Technical University in Prague* 2021 – 2023

- Thesis: *Test-Time Adaptation for Segmentation*

Experience

PhD Researcher — *Czech Technical University in Prague* 2023 – present

- Mentoring BSc/MSc/high-school students; Teaching Assistant for ML & Pattern Recognition.
- Secured a Toyota Motors Europe Research Grant for a one-year project on efficient vision-language models.

ML Researcher — *Equilibre Technologies, Prague, Czech Republic* 2024

- Collaboration with an algorithmic trading company on ML research during M.Sc.

Research Intern — *Technion — Israel Institute of Technology, Haifa, Israel* 2022 – 2023

- Selected via the **Czech-Israeli Innovation Internship (CI3)** program, hosted by Alex Bronstein and Chaim Baskin.
- Single-image test-time adaptation for segmentation → published in TMLR 2024.

Research Intern — *IBM Research Zurich, Zürich, Switzerland* 2022

- Selected via **IBM Great Minds** fellowship, worked as part of the AI automation group led by Cristiano Malossi.
- Best Paper Award, ECCV 2022 Workshop on Computer Vision for Civil and Infrastructure Engineering.

Research Intern — *Computer Vision Center (CVC) at UAB, Barcelona, Spain* 2019 – 2020

- Hosted by Dimosthenis Karatzas.
- Scene-text detection and recognition → published at ICPR 2020.

Selected Publications

- **“SAM2RL: Reinforcement Learning Memory Control for Segment Anything Model 2.”** Tomáš Čížek, Matej Straka, Matěj Kripner, Klára Janoušková, Jiri Matas, Martin Schmid. *Under Review*, 2026.
- **“Multimodal LLMs as Image Classifiers.”** Nikita Kisel, Illia Volkov, Klára Janoušková, Jiri Matas. *CVPR Findings*, 2026.
- **“Flaws of ImageNet, Computer Vision’s Favourite Dataset.”** Nikita Kisel, Illia Volkov, Katerina Hanzelkova, Klára Janoušková, Jiri Matas. *ICLR Blog Posts*, 2025. [\[link\]](#)
- **“Robust Context-Aware Object Recognition.”** Klára Janoušková, Cristian Gavrus, Jiri Matas. *arXiv preprint*, 2025. [\[link\]](#)
- **“Overview of FungiCLEF 2025: Few-Shot Classification with Rare Fungi Species.”** Klára Janoušková, Jiri Matas, Lukas Pícek. *Working Notes of CLEF*, 2025.
- **“FungiTastic: A Multi-modal Dataset and Benchmark for Image Categorization.”** L. Pícek, K. Janoušková, M. Sulc, J. Matas. *CVPR workshops, Fine-Grained Visual Categorization*, 2025. [\[link\]](#)
- **“Single Image Test-Time Adaptation for Segmentation.”** K. Janoušková, T. Shor, C. Baskin, J. Matas. *TMLR*, 2024. [\[link\]](#)
- **“Model-Assisted Labeling via Explainability for Visual Inspection of Civil Infrastructures.”** K. Janoušková, M. Rigotti, I. Giurciu, C. Malossi. *ECCV Workshops, Computer Vision for Civil and Infrastructure*

Engineering (Best Paper Award), 2022. [\[link\]](#)

Patents

- **Klára Janoušková**, Ioana Giurgiu, Mattia Rigotti, Cristiano Malossi. *Generating Strong Labels for Examples Labelled with Weak Labels*. US Patent 12,406,478. Granted 2025.

Awards & Service

- **Josef Hlavka Award** — Foundation of Josef, Marie and Zdeňka Hlávka, 2022
- **Best Paper Award** — ECCV 2022, Computer Vision for Civil and Infrastructure Engineering Workshop
- **Dean's Award for Outstanding Bachelor's Thesis** — Czech Technical University, 2020
- **Organizer:** Workshop on Fine-Grained Visual Categorization (CVPR 2025), FungiCLEF Challenge 2025
- **Reviewing:** NeurIPS (Top Reviewer 2024), CVPR, ECCV, ICCV, IJCV, WACV