Klára Janoušková

Curriculum Vitae

Email: klara.janouskova@fel.cvut.cz
Nationality: Czech

About

I am currently pursuing a master's degree in computer science, majoring in computer vision. I am part of the Visual Recognition Group of my university, my research has focused on document analysis, most recently weakly supervised learning for text detection and recognition. Apart from machine learning and mathematics, I am interested in psychology and neuroscience.

Work experience

Technion VISTA lab, Research Intern   *September 2022 - October 2022*
Czech-Israeli Innovation Internships. I am hosted by prof. Alex Bronstein, working with Chaim Basking, on the topic of weakly and self-supervised learning for image segmentation.

IBM Research - Zurich, Student Researcher   *July 2021 - December 2021*
AI Automation group, explainability. I am working on visual inspection for civil infrastructure.

Centre for Machine Perception, **CTU Prague**, Research Intern   *2017 - now*
Visual Recognition Group, working under the supervision of prof. Jiří Matas.
I worked on document analysis projects - scene-text region detection and document layout analysis. Currently, I am working on weakly supervised learning for text detection and recognition.

Computer Vision Center, UAB, Research Intern   *July 2019 - September 2019*
I worked on weakly supervised learning for text detection and recognition under the supervision of prof. Dimosthenis Karatzas.

Applifting, Ruby on Rails Backend Trainee developer   *June 2016 - August 2016*
I worked on project Yunoia, a social network for the game industry.
Startup that develops iOS, web and Android applications.

Czechitas, Volunteer   *2018 - now*
Teaching introductory level programming courses.
Non-profit organization that aims for higher tech literacy among women and youth.

MoRoUS, Organizer   *2016 - now*
Correspondence seminar for high school students organised by a group of volunteers from the Faculty of Electrical Engineering, CTU Prague.

Education

Czech Technical University in Prague, Master of Science   *September 2020 - now*
Faculty of Electrical Engineering, major in Computer Vision (1.17/4 WGPA).

Czech Technical University in Prague, Bachelor of Science   *September 2017 - 2020*
Faculty of Electrical Engineering, major in Informatics and Computer Science.
I graduated with honours (1.15/4 WGPA, rank 7), completing a minor degree in mathematics.
Bachelor thesis: [Learning with Weak Annotations for Text in the Wild Detection and Recognition](#)

Universitat Politècnica de València,   *September 2018 - January 2019*
Erasmus+ at School of Informatics.

Publications

Model-Assisted Labeling via Explainability for Visual Inspection of Civil Infrastructures,
Klara Janouskova, Mattia Rigotti, Ioana Giurgiu, Cristiano Malossi; CVCIE workshop @ECCV'22 ([arxiv](#))

Text Recognition - Real World Data and Where to find Them, Klára Janoušková, Lluis Gómez,
Dimosthenis Karatzas, Jiří Matas; ICPR2020 ([arxiv](#), [youtube](#))

Languages

Native: **Czech**
Advanced: **English** (CAE certificate), **Spanish** (Título de Bachiller, Czech-Spanish high-school)
Intermediate: **French**
Elementary: **German**

Invited talks

Rossum, Machine-learning talks - scene-text detection and recognition.
UBS Switzerland internal seminar - scene-text detection and recognition.

Achievements

CI3 selected student   *2022*
I have been selected as one of the six participants in the first year of the Czech-Israeli Innovation
Intership, a new project focusing on commercialization and technological transfer
https://www.nfneuron.cz/novinky/mladi-cesti-vedci-miri-do-izraele-diky-novemu-projektu-vedeckych-stazi

IBM Great Minds 2021 winner   *2021*
https://www.zurich.ibm.com/greatminds/ - a competition for 3 to 6-month internships at one of
the IBM Research Labs.
Dean's award for an outstanding bachelor's thesis.   *2020*
100th percentile in the SCIO National Comparative Exams in Mathematics   *2017*
The best result in the cohort. Criterion in the acceptance processes of many Czech universities.
Open Informatics scholarship for talented girls
2017
A scholarship awarded to top-scoring students in the NCE in Mathematics.

Personal interests

Bookworm with a passion for nature and sports (climbing and windsurfing are my favourites lately)