



# Adéla Šubrtová

Updated April 18, 2024

## BIO & Contact

**Born:** 9. 9. 1995 in Prague, Czech Republic  
**Email:** subrtade@fel.cvut.cz  
**Web:** <https://subrtadel.github.io>

## Research interests

Generative models, image synthesis, image editing, facial recognition, diffusion models, generative adversarial networks

## Research experience

### Visual Recognition Group at Czech Technical University in Prague

PhD student

Supervisors: Jan Čech, Jiří Matas September 2021 – present

Research topics: generative models, image editing, diffusion models.

### Internship at the National Institute of Informatics in Tokyo, Japan

Research Intern

Mentor: Akihiro Sugimoto September 2023 – January 2024

Research topics: diffusion models, perceptual artifact detection.

### Internship at Adobe Research in Paris, France

Research Intern

Mentors: Michal Lukáč, Eli Shechtman September 2022 – December 2022

Research topics: diffusion models, semantic image editing.

### Visual Recognition Group at Czech Technical University in Prague

Research Intern

Mentor: Jan Čech August 2017 – July 2021

Research topics: super-resolution, image-to-image translation with conditional GANs, and hairstyle transfer.

## Publications

### Detecting and Correcting Perceptual Artifacts in Face Images

A. Šubrtová, J. Čech, A. Sugimoto, Detecting and Correcting Perceptual Artifacts in Face Images, Computer Vision Winter Workshop, 2024

### Diffusion Image Analogies

A. Šubrtová, M. Lukáč, J. Čech, D. Futschik, E. Shechtman, and D. Sýkora, Diffusion Image Analogies, In Proc. ACM SIGGRAPH, 2023

### **ChunkyGAN: Real Image Inversion via Segments**

A. Šubrtová, D. Futschik, J. Čech, M. Lukáč, E. Shechtman, and D. Sýkora, ChunkyGAN: Real Image Inversion via Segments, In Proc. European Conference on Computer Vision, 2022

### **Hairstyle Transfer between Face Images**

Adéla Šubrtová, Jan Čech, Vojtěch Franc, Hairstyle Transfer between Face Images, In Proc. IEEE Automatic Face and Gesture Recognition, 2021

#### Awards

**Dean's award for Master's thesis.**

#### Teaching

##### **Optimization course**

2021

Lab teacher of B0B33OPT at CTU.

#### Invited talks

##### **Machine Learning and Modelling Seminar at Charles University**

2.3. 2023

Talk on semantic image editing.

#### Academic service

##### **Reviewed for:**

SIGGRAPH, Image and Vision Computing, Eurographics

#### Education

##### **Czech Technical University**

Prague, Czech Republic

PhD degree in Informatics

Since September 2021

Supervisors: Ing. Jan Čech, Ph.D, prof. Ing. Jiří Matas, Ph.D. (supervisor specialist)

##### **Czech Technical University**

Prague, Czech Republic

Master's degree in Computer Vision and Image Processing,

minor in Data Science

October 2018 – June 2021

Supervisor: Ing. Jan Čech, Ph.D.

[Master's Thesis]

##### **Czech Technical University**

Prague, Czech Republic

Bachelor's degree in Computer Science

October 2015 – June 2018

Supervisor: Ing. Jan Čech, Ph.D.

[Bachelor's Thesis]

#### Skills

##### **Programming**

Python, MATLAB

Libraries: PyTorch, diffusers, transformers, numpy

##### **Languages**

Czech

native

English

C1 (CAE certificate)

Spanish

elementary

Sports

**Field hockey**

club SK Slavia Praha

2009 - 2014 (4-time national champion)

Other interests

bouldering, badminton, reading, walks in nature, yoga