

# IVAN TISHCHENKO

## Research Assistant

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## EXPERIENCE

### Research Assistant

#### ETH Zurich, Computer Vision and Geometry Group

📅 July 2020 – Ongoing 📍 Zurich, Switzerland

- Conducting research in 3D Computer Vision and Deep Learning.
- Outperformed the state-of-the-art baseline by 14%.
- **Technologies:** Python, PyTorch

### Software Engineer Intern

#### Swisscom

📅 Feb 2019 – Oct 2019 📍 Bern, Switzerland

- Developed an interactive visualization dashboard.
- Implemented API, UI, persistence and access control.
- The app is actively used by the operational and support teams.
- **Technologies:** Java, JavaScript, CI/CD, TDD, agile methodology

### Software Engineer (working student)

#### Astrivis

📅 Oct 2018 – Feb 2019 📍 Zurich, Switzerland

- Implemented network communication and caching logic.
- Designed a drag and drop UI feature for fusing 3D models.
- Adapted application's architecture to Fragments.
- **Technologies:** Java, Android development, Networking

### Software Developer (working student)

#### Interdisciplinary Centre for Security, Reliability and Trust

📅 Nov 2016 – Apr 2017 📍 Luxembourg

- Contributed to the initial framework for RoboCup 2017.
- **Technologies:** C++, Python, GNU/Linux

### Software Developer Intern

#### Digital and Population Data Services Agency

📅 May 2016 – Jun 2016 📍 Helsinki, Finland

- Developed a prototype of Signature Creation Service for iOS.
- **Technologies:** Swift, iOS development, PKI

## PROJECTS

- 📅 2020 Self-Supervised Scene Flow Learning (Python, PyTorch)
- 📅 2018 Hand Pose Estimation with CNNs (Python, TensorFlow)
- 📅 2018 Semantic Segmentation of Satellite Images (Python, Keras)
- 📅 2018 Analytics Platform for Instagram (Java, Spring Boot)
- 📅 2017 Middleware for a Cloud Distributed System (Java, NoSQL)

## EDUCATION

### M.Sc. in Computer Science

#### ETH Zurich

📅 Sep 2017 – July 2020

**GPA: 5.39/6.0**

Specialization:

- Computer Vision
- Machine Learning

### B.Sc. in Computer Engineering

#### National Technical University of Ukraine "Kyiv Polytechnic Institute"

📅 Sep 2013 – July 2017

**GPA: 4.82/5.0**

## SKILLS

Java Python C/C++ JavaScript

GNU/Linux Git CI/CD

Computer Vision Machine Learning

## PUBLICATIONS

### Conference Proceedings

- Tishchenko, Ivan et al. (2020). "Self-Supervised Learning of Non-Rigid Residual Flow and Ego-Motion". In: *2020 International Conference on 3D Vision (3DV)*. IEEE.

## AWARDS



### Master Scholarship Programme

ETH Zurich, Switzerland. Top 10% of Bachelor's degree programme.



### EUROEAST Academic Grant

Two grantees out of all CS and EE Bachelor's students at NTUU "KPI".



### European Forum Alpbach Scholarship

Interdisciplinary conference, 2d place economics essay competition.

## LANGUAGES

English

● ● ● ● ●

German

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Ukrainian

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Russian

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Chinese

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