Antea Hadviger

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WORK EXPERIENCE

CURRENT, FROM MARCH 2018

University of Zagreb
Faculty of Electrical Engineering and Computing
Research Associate and Teaching Assistant

I am a junior researcher in computer vision with the Laboratory for Autonomous Systems and Mobile Robotics. The focus of my PhD is event-based vision with dynamic vision sensors for mobile robotics, specifically depth estimation, visual odometry and SLAM. I am also a teaching assistant for the graduate Machine Learning course.

JUL 2021 – OCT 2021

Google
Research Intern

I worked a research team from the Google AI division based in Berlin, Germany. The research area of my project was computer vision and graphics, supported by deep learning techniques. I implemented a novel method for image factorization, extending the previous work from 2D to 3D.

MAY 2017 – AUG 2017

Microsoft
Software Engineer Intern

I worked in the Search and Index (Tenant Wide Search) team based in Oslo, Norway and delivered a personal relevance feature developed in C#. I also participated in a hackathon and won an internal coding competition (FAST Code Cup).

JUL 2016 – SEP 2016

Facebook
Software Engineer Intern

I worked in the Marketplace Tab team based in Seattle, WA on the early version of the product for mobile platforms, using React Native and Java.

AUG 2014 – SEP 2014

CROZ
Software Engineer Intern

I worked in a team developing a social network analysis and sentiment acquisition tool, using Scala and Java.

EDUCATION

2018 –	**Ph.D. student, Computer Vision** University of Zagreb
2018	**M.Sc, Computer Science** University of Zagreb
2015	**B.Sc, Computer Science** University of Zagreb

AWARDS

2013	**Dean Award** (top 1% students) University of Zagreb
2011 – 2018	**Scholarship for Excellence** City of Zagreb

SKILLS

C/C++, Python, Java, Git, Linux, ROS, LaTeX

PUBLICATIONS

Feature-based Event Stereo Visual Odometry
A. Hadviger, I. Cvišić, S. Vražić, I. Marković, I. Petrović
European Conference on Mobile Robots, 2021

Stereo Dense Depth Tracking Based on Optical Flow using Frames and Events
A. Hadviger, I. Marković, I. Petrović
Advanced Robotics Journal, Vol. 29, Issue 5

Stereo Event Lifetime and Disparity Estimation for Dynamic Vision Sensors
A. Hadviger, I. Marković, I. Petrović
European Conference on Mobile Robots, 2019

Computationally Efficient Dense Moving Object Detection Based on Reduced Space Disparity Estimation
G. Popović, A. Hadviger, I. Marković, I. Petrović
IFAC Symposium on Robot Control, 2018