

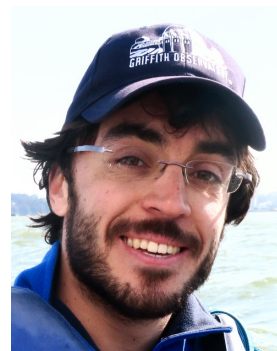
CURRICULUM VITAE (last update: 12. 7. 2018)

# TOMÁŠ HODANĚ

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## Education

### **PhD degree in computer vision**

Czech Technical University in Prague, Center for Machine Perception (2013 – 2019 expected)

Topic of PhD thesis: *Object Detection and 6D Object Pose Estimation*

Supervisor: Prof. Jiří Matas

### **Master's degree (with honours) in information technology**

Brno University of Technology, Faculty of Information Technology (2010 – 2013)

Topic of master's thesis: *Specular Reflection Detection and Removal From Image Sequences* (supervised

by Dr. Robby T. Tan and Prof. Adam Herout)

### **Exchange study programme in game and media technology**

Utrecht University, Faculty of Science (2010 – 2011)

Topic of experimentation project: *Depth From Optical Flow* (supervised by Dr. Robby T. Tan)

### **Bachelor's degree in information technology**

Brno University of Technology, Faculty of Information Technology (2007 – 2010)

Topic of bachelor's thesis: *Web Portal for GPS Tracks Processing*

### **Grammar school**

Gymnázium Nový Jičín, Czech Republic (2003 – 2007)

## Work Experience

### **Research intern – Microsoft Research**

Redmond, USA (June – August 2018), supervisors: Sudipta Sinha, Brian Guenter

### **Computer vision researcher – DARWIN FP7 EU project**

Czech Technical University in Prague (2013 – 2015)

Task: Design and implementation of the vision module for an assembly robot

### **Computer vision researcher – SRS FP7 EU project**

Brno University of Technology (2011 – 2012)

Task: Research and development for a domestic robot supporting elderly people

### **Owner, developer, designer – Enthusio.cz**

A company focused on web development (2005 – 2012)

## Awards

**Dean's award for excellent Master's thesis**, Brno University of Technology (2013)

## Publications

**T. Hodaň**, P. Haluza, Š. Obdržálek, J. Matas, M. Lourakis, X. Zabulis, *T-LESS: An RGB-D Dataset for 6D Pose Estimation of Texture-less Objects*, IEEE Winter Conference on Applications of Computer Vision (WACV) 2017, Santa Rosa, USA

**T. Hodaň**, J. Matas, Š. Obdržálek, *On Evaluation of 6D Object Pose Estimation*, European Conference on Computer Vision Workshops (ECCVW) 2016, Amsterdam, The Netherlands

**T. Hodaň**, X. Zabulis, M. Lourakis, Š. Obdržálek, J. Matas, *Detection and Fine 3D Pose Estimation of Texture-less Objects in RGB-D Images*, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2015, Hamburg, Germany

**T. Hodaň**, D. Damen, W. Mayol-Cuevas, J. Matas, *Efficient Texture-less Object Detection for Augmented Reality Guidance*, IEEE International Symposium on Mixed and Augmented Reality Workshops (ISMARW) 2015, Fukuoka, Japan

**T. Hodaň**, *Web Portal for GPS Tracks Processing*, In Proceedings of Student EEICT 2010, Brno University of Technology

## Teaching

**Pattern Recognition and Machine Learning** – a course at the Faculty of Electrical Engineering, Czech Technical University in Prague (taught in academic years 2013/14, 2014/15, 2017/18)

**Supervised students** – Pavel Zedník (MSc. thesis, 2015), Pavel Haluza (Bc. thesis, 2017)

## Other Activities

**The SIXD Challenge** – the goal is to establish the state of the art in 6D object pose estimation ([http://cmp.felk.cvut.cz/sixd/challenge\\_2017/](http://cmp.felk.cvut.cz/sixd/challenge_2017/))

**Workshops on Recovering 6D Object Pose** – co-organized at ICCV'15, ECCV'16, ICCV'17, ECCV'18

## Skills

**Languages** – **Czech** (mother tongue), **English** (advanced level), **German** (elementary level)

**Programming languages/libraries** – C/C++, Python, Matlab, OpenCV, OpenGL, ROS, ...

**3D modelling and image editing** – Blender, Maya, Photoshop

## Personal Interests

Intersection of math, digital technology and visual information, where the field of computer vision lies

Sport (tennis, badminton, windsurfing, snowboarding), traveling, books, movies, painting