

# TOMÁŠ DOKTOR

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Prague, Czechoslovakia | 7<sup>th</sup> February, 1986  
ADDRESS: Palackého 219, 28922, Lysá nad Labem, Czech republic  
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## WORK EXPERIENCE

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<i>Current</i> SINCE NOVEMBER 2009	ACADEMY OF SCIENCES OF THE CZECH REPUBLIC, INSTITUTE OF THEORETICAL AND APPLIED MECHANICS, V.V.I. DEPARTMENT OF BIOMECHANICS, Prague <i>Research assistant, graduate student</i> Design of experimental devices, preparation of micro-scale samples, mathematical modeling and algorithmisation
2008 - 2010	CZECH TECHNICAL UNIVERSITY IN PRAGUE, FACULTY OF TRANSPORTATION SCIENCES, DEPARTMENT OF MECHANICS AND MATERIALS, Prague <i>Student research assistant</i> Numerical modelling of geosynthetics, design of testing devices, presentation of the department

## EDUCATION

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<i>Current</i> SINCE OCTOBER 2011	Doctoral studies in TECHNOLOGY IN TRANSPORT AND TELECOMMUNICATIONS CZECH TECHNICAL UNIVERSITY IN PRAGUE, FACULTY OF TRANSPORTATION SCIENCES   Supervisors: ONDŘEJ JIROUŠEK, DANIEL KYTÝŘ
MAY 2011	Master degree ( <b>Ing.</b> ) in TECHNOLOGY IN TRANSPORT AND TELECOMMUNICATIONS CZECH TECHNICAL UNIVERSITY IN PRAGUE, FACULTY OF TRANSPORTATION SCIENCES   <i>Graduated summa cum laude. Dean's award for the master thesis received.</i> Thesis: "Assessment of pore size distribution using image analysis" Thesis supervisor: DANIEL KYTÝŘ
SEPTEMBER 2009	Bachelor ( <b>Bc.</b> ) in TECHNOLOGY IN TRANSPORT AND TELECOMMUNICATIONS CZECH TECHNICAL UNIVERSITY IN PRAGUE, FACULTY OF TRANSPORTATION SCIENCES   <i>Graduated summa cum laude. Dean's award for the bachelor thesis received.</i> Thesis: "Finite element analysis of increasing of trackbed bearing capacity using geosynthetics" (written in Czech)   Thesis supervisor: DANIEL KYTÝŘ

## LANGUAGES

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ENGLISH: level B2 (Language exam in Ph.D. study programme, 2012)  
GERMAN: level B2 (Basic State Language Exam, 2005)  
CZECH: mother tongue

## COMPUTER SKILLS

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OPERATING SYSTEMS: MS Windows, GNU/Linux  
OFFICE APPLICATIONS, TYPESETTING: MS Office,  $\text{\LaTeX}$   
SCIENTIFIC COMPUTING: MATLAB, GNU Octave

## RESEARCH PROJECTS

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- 2012-2014 | DETERMINATION OF STRUCTURAL AND MECHANICAL PROPERTIES OF METAL FOAMS USING NANOINDENTATION, COMPUTER TOMOGRAPHY AND MICROSTRUCTURAL FEM MODELS  
donor: Czech Science Foundation | principal investigator: Jiří Němeček  
position: MEMBER OF CO-INVESTIGATORS TEAM
- 2010-2013 | MORPHOMETRY AND MECHANICAL PROPERTIES OF TRABECULAR BONE ASSESSED BY METHODS OF MICROMECHANICS AND NUMERICAL MODELLING  
donor: Czech Science Foundation | principal investigator: Ondřej Jiroušek  
position: MEMBER OF INVESTIGATORS TEAM
- 2012-2014 | INVESTIGATION OF MICROSTRUCTURE FOCUSED ON MATERIAL PROPERTIES AND BEHAVIOUR OF ADVANCED MATERIALS  
donor: Czech Technical University in Prague | principal investigator: Daniel Kytýř  
position: MEMBER OF INVESTIGATORS TEAM
- 2012-2014 | CUMMULATIVE TIME DEPENDENT PROCESSES IN BUILDING MATERIALS AND STRUCTURES  
donor: Czech Science Foundation | principal investigator: Robert Černý  
position: MEMBER OF CO-INVESTIGATORS TEAM
- 2010-2011 | HYBRID MEASUREMENT SYSTEM OF THERMO-MECHANICAL PARAMETERS OF ADVANCED MATERIALS AND STRUCTURES IN LIMITING LOADING STATES  
donor: Czech Technical University in Prague | principal investigator: Jaroslav Valach  
position: MEMBER OF INVESTIGATORS TEAM
- 2009 | DEVELOPMENT OF COST-EFFECTIVE HIGH PERFORMANCE TRACK INFRASTRUCTURE FOR HEAVY RAIL SYSTEMS | donor: 6<sup>th</sup> Framework Programme of the European Commission  
principal investigator: Ondřej Jiroušek (representative of CTU)  
position: SHORT-TERM CONTRACT

## OTHER ACADEMIC ACTIVITIES

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- SINCE 2014 | membership in ACADEMIC SENATE OF THE CZECH TECHNICAL UNIVERSITY IN PRAGUE  
service in Educational Affairs Committee and in Legislative Committee
- 2014 | 13<sup>th</sup> YOUTH SYMPOSIUM ON EXPERIMENTAL SOLIDS MECHANICS  
service in organizing committee
- 2012 | 13<sup>th</sup> BILATERAL CZECH/GERMAN SYMPOSIUM ON EXPERIMENTAL METHODS AND NUMERICAL SIMULATIONS IN ENGINEERING SCIENCES | service in organizing committee

## PUBLICATION AND CITATION METRICS

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Authorship or co-authorship of >15 articles in international peer-reviewed journals listed in Journal Citation Reports (Thomson Reuters) and >15 papers in proceedings of international conferences.

In both Web of Knowledge (Thomson Reuters) and Scopus (Elsevier) recorded  $\geq 10$  citations excluding self-citations. Hirsch index is 2.

## OTHER SKILLS

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ELECTRICIAN'S LICENCE (certified for supervised work; according to §5 of Czech Decree No. 50/1978 on professional expertise in electrical engineering)

DRIVING LICENCE (vehicles up to 3500kg)