

Curriculum Vitae

Jan Matějka

Personal Data:

Family name: Matějka
First name: Jan
Date of birth: March 18, 1990
Place of birth: Prague, Czech Republic
Nationality: Czech
Citizenship: Czech Republic

Contacts:

Office address: Czech Technical University in Prague
Faculty of Biomedical Engineering
nam. Sitna 3105
CZ – 272 01 Kladno
Czech Republic

Phone: +420 224 359 960
E-mail: jan.matejka@fbmi.cvut.cz

Education and Professional Studies:

Degree: BSc. (Bc.); Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “Ventilatory circuit model for optimization of high-frequency oscillatory ventilation”; 2012

Degree: M.Eng. (Ing.); Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “Experimental model of high-frequency ventilator circuit”; 2014

Ongoing study: Ph.D.; Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “Dependence of intrapulmonary parameters upon the mechanical properties of the lung during high frequency oscillatory ventilation”

Short time courses: Signal processing in MATLAB and Simulink (HUMUSOFT s.r.o., November 22, 2012, Prague, Czech Republic), Simulink II (HUMUSOFT s.r.o., September 12, 2013, Prague, Czech Republic), COMSOL Multiphysics I (HUMUSOFT s.r.o., September 16, 2013, Prague, Czech Republic)

Appointments:

Date: 2008 – 2011
Organization: National Medical Library, Prague, Czech Republic
Position: External employee

Date: 2012 – 2013
Organization: Czech Technical University in Prague, Faculty of Biomedical Engineering
Position: Student research assistant

Date: 2013 – 2015
Organization: MR Diagnostic s.r.o.
Position: External employee

Date: 2014 – 2015
Organization: Geratherm Respiratory GmbH
Position: Research and development

Date: 2015 – present
Organization: Czech Technical University in Prague, Faculty of Biomedical Engineering
Position: Assistant

Date: 2015 – present
Organization: Self-employed, secondary activity
Position: Research and development in field of natural and engineering sciences or social sciences

Selected Publications:

Matějka J., Ráfl J., Čech M., Rožánek M.: Ventilator circuit model for optimization of high-frequency oscillatory ventilation. *Clinician and Technology*, vol. 42, no. 2, pp. 61-64, 2012.

Matějka J., Ráfl J.: Model of High-frequency Oscillatory Ventilation Based on the Electro-acoustic Analogy. *Proceedings of the 17th International Scientific Student Conference POSTER 2013*, 2013. ISBN 978-80-01-05242-6

Awards and Honors:

2nd place in category Biomedical engineering at POSTER 17th International Scientific Student Conference on Electrical Engineering, May 16 2013. The presented study: J. Matějka, J. Ráfl: Model of High-frequency Oscillatory Ventilation Based on the Electro-acoustic Analogy.

Grants:

Development Projects of Young Teams on CTU FBMI, Project: Creation of Experimental Laboratory Lectures for Subject Fluid Mechanics in Biomedicine; project coauthor; 2014