CV | Dr. Péter Tamás Nagy

Status: Research fellow

Research fields: Aeroacoustics, Hydrodynamic instabilities

Software exp.: MATLAB, ANSYS CFX, FreeFem



>>> Experience

2019/01 2020/08	- Research fellow	Budapest University of Technology and Economics (BME)
	Research: Drag reduction, non-linear stability analysis	
	Lecturer: Numerical Simulation of Fluid Flows (BSc); Si Simulation of Fluid Flows (BSc)	ignal processing (MSc),Numerical
2019/01	- Assistant professor	
2020/08		ВМЕ
2018/01- 2018/12	Research assistant	BME
	 Research: Stability properties of planar jets, mathema Teaching: Numerical Simulation of Fluid Flows (BSc), Ctals (BSc),Introduction to Mechanical Engineering (BSc) 	
2013/07- 2013/12	Analysis Engineer Trainee	AVL AUTÓKÚT Kft., Budapest
	Multibody simulations, Dynamic and Modal AnalysisFatigue Analysis	
>>> Educatio	n	

2015 - 2018	PhD	ВМЕ
	 Research: Stability properties of planar jets, mathematical modelling of the edge-tone Teaching: Numerical Simulation of Fluid Flows, Chemical Engineering Fundamentals, Introduction to Mechanical Engineering 	
2013-2015	Mechanical Engineering Modelling (MSc)	ВМЕ
	Master Thesis: Aeroacoustic simulation of cavity tone (TU Wien)Modules: Fluid mechanics, Solid mechanics	
2009 - 2013	Mechatronics Engineering (BSc)	ВМЕ
	Final project: Fatigue investigation on vehicle parts by dynamic simulation (AVL)Module: Mechanical modelling	
2005-2009	General Certificate of Secondary Education Nagy Lajos Secondary Grammar School, Szombathely	

>>> Awards and scholarships

2018 Article competition of Pro Progressio foundation and Journal of Élet és Tu-

domány (Life and Science)

1st place

2017-2018 Új Nemzeti Kíválóság Program (New National Excellence Program) scholarship

Ministry of Human Capacities

2016-2017 Új Nemzeti Kíválóság Program (New National Excellence Program) scholarship

Ministry of Human Capacities

2015 Varga József award

Excellent diploma thesis in the field of fluid dynamics

2014 Erasmus scholarship

One semester at TU Wien

2013 Rector's Special Award

Excellent paper on the student's conference

>>> Most important publications Link

2021 P. Nagy, A. Szabó, Gy. Paál, : A feedback model of the edge tone, using the adjoint

Orr-Sommerfeld equation, JOURNAL OF FLUID MECHANICS, 915, 2021

2020 A. Szabó, P. Nagy, Gy. Paál, : Numerical simulation of an acoustically excited

plane jet in an incompressible framework and comparison with experimental data,

JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 147:5, 2020

2019 P. Nagy, Gy. Paál, : Stabilization of the boundary layer by streamwise control,

Physics of Fluids, 2019

2017 P. Nagy, Gy. Paál, : Modelling the perturbation growth in an acoustically excited

plane jet, *Physics of Fluids*, 29:11, 2017, (p. 114102)

>>> Languages

Hungarian Native
English Fluent
German Basic

>>> Further activities

2016 Formula Student East Design Judge (Aerodynamics)

2014 Formula Student Hungary Scrutineer, Special Award Judge

2011-13 Mechanical Design Engineer - BME Formula Racing Team

2011-12 Drivetrain project leader 2012-13 Monocouque developer

2009, 2010 Bosch Elektromobil competition-Team captain

Design and build a one seat race car propelled by 6 drills

>>> Hobbies

Hiking

Biking Sailing

Playing card board games