CURRICULUM VITAE

Dr.-Ing. ANNA ARSENYEVA

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EDUCATION

since 03/2021	**Professional training "Data Scientist"** alfatraining Bildungszentrum GmbH, München, Deutschland
05/2013-03/2020	**Dr.-Ing.** Technische Universität München (TUM), Munich, Germany. AMEDEO project of Marie Curie Initial Training Network. Project: „A Unified Multidisciplinary Shape Optimization Methodology for Composite Aircraft Structures". Final thesis: "Level-dependent Optimization Methods for Metal and Composite Wingbox Structures"
09/2009-07/2011	**MSc in Applied Mechanics** (Note 2.3) Saint-Petersburg State Polytechnic University (SPbSPU), Saint-Petersburg, Russia. Final thesis: "FEM modeling of the fatigue damage with deformation and energy criteria for inhomogeneous material"
09/2004-07/2009	**BSc in Applied Mechanics** (Note 1.3) Tomsk State University (TSU), Tomsk, Russia. Final thesis: "Modeling of high-speed orthogonal metal cutting process"

EXPERIENCE

since 01/2018	**Parental leave** Raising my son and working on my PhD thesis.
05/2013- 03/2017	**Research and teaching associate,** chair of Computational Mechanics, TUM *Munich, Germany, full time.* Project: „A Unified Multidisciplinary Shape Optimization Methodology for Composite Aircraft Structures" - Parametric modeling of aircraft wing - CFD simulation for wings - A new optimization approach for aircraft wingbox design - Optimization of variable stiffness composites, laminated composites Tools applied: ANSYS APDL, Workbench, Fluent, Python, DAKOTA, SFE CONCEPT

	- Teaching ANSYS course (tutorials) for COME master students in English - Teaching part of composite materials course for COME master students in English
09/2014	**Internship,** SFE GmbH *Berlin, Germany.* - Approaches for flexible shape parametrization (SFE CONCEPT)
02/2014-03/2014	**Internship,** TU Delft / ALE *Delft, The Netherlands.* - Homogenization procedure for Honeycomb composite materials. - Variable stiffness composites – modeling and optimization methods
12/2011-02/2013	**Researcher,** Institute of Technical Mechanics (JKU Linz) *Linz, Austria, full time.* Project: "Capacitor Noise" (By ACCM for SIEMENS). - Homogenization of the complex multi-material interior structure of the capacitor - Acoustic and Modal analysis of capacitor (ANSYS) Project: "Laval rotor floating ring bearings" (By ACCM for SIEMENS). - Simulations of speedup of the horizontal rotor with full-floating ring bearings in Wolfram Mathematica software and comparison with MATLAB results
07/2011-09/2011	**Research assistant,** chair of Theoretical Mechanics, Saint-Petersburg State Polytechnic University (SPbSPU) *Saint-Petersburg, Russia* Project: "Analysis of strength properties of lightweight polyamide cage of journal bearing" (By IPME RAS) - Three-dimensional models of polyamide bearing cage (SolidWorks) - Analysis of strength properties of bearing cage (ANSYS)

COMPUTER SKILLS

ANSYS (APDL) (very good), ANSYS Workbench (good), SolidWorks (good), Python (good), MatLab (good), Sandia DAKOTA (good), OriginLab (good), LaTeX (very good), Wolfram Mathematica (good), SFE CONCEPT (very good)
Microsoft Office (Word, Excel, PowerPoint) (very good)

LANGUAGE SKILLS

English (fluent)
Deutsch (B2), currently taking C1 course
Russisch (native speaker)

HOBBYS AND SPORT

Photography, books reading (classics and sci-fi),
snowboarding, climbing, running

Munich, *05.05.2020* *Anna Arsenyeva*