
EMPLOYMENT

Institute of Mathematics, Czech Academy of Sciences , postdoc	from January 2020
Inria Paris , postdoc	2017 – 2019
research group SERENA led by Martin Vohralík	July – December 2019
research group ALPINES led by Laura Grigori	March 2017 – June 2019
Institute of Computer Science , Czech Academy of Sciences	2011 – 2017
Ph.D. student position in Department of Computational Methods	

EDUCATION

Faculty of Mathematics and Physics, Charles University, Prague

Ph.D. in Scientific Computing	2017
thesis: <i>Algebraic error in matrix computations in the context of numerical solution of partial differential equations</i>	
Master in Numerical and Computational Mathematics (summa cum laude)	2011
<i>Estimation of the algebraic error and stopping criteria in numerical solution of partial differential equations</i>	
Bachelor in General Mathematics (summa cum laude)	2009
<i>Estimation of the energy and Euclidean norms of the error in the conjugate gradient method</i>	
advisor: Zdeněk Strakoš	

Université Pierre et Marie Curie, Paris	January – May 2013
ERASMUS internship, supervised by Martin Vohralík	
Gene Golub SIAM Summer School 2013 , Fudan University, Shanghai	July 2013
topic: Matrix Functions and Matrix Equations, 3 weeks	

PARTICIPATION ON GRANTS AND PROJECTS

Czech Science Foundation project 20-01074S	from 2020
<i>Adaptive methods for the numerical solution of partial differential equations: analysis, error estimates and iterative solvers</i> , member of the project team; PI: Vít Dolejší	
GATIPOR, <i>Guaranteed fully adaptive algorithms with tailored inexact solvers for complex porous media flows</i>	2019
starting research position; ERC Consolidator Grant, PI: Martin Vohralík	
B3DCMB, <i>Big Bang from Big Data of the Cosmic Microwave Background</i>	2018 – 2019
member of the project team; French National Research Agency project, coordinator and scientific director: Radek Stompor	
NLAFET, <i>Parallel Numerical Linear Algebra for Extreme Scale Systems</i>	2017 – 2019
postdoc; Horizon 2020 project, coordinator and scientific director: Bo Kågström	
ERC-CZ project LL1202	2012 – 2017
<i>MORE: MOdelling REvisited + MOdel REDuction</i>	
member of the project team; PI: Josef Málek	
Czech Science Foundation project 13-06684S	2013 – 2017
<i>Iterative Methods in Computational Mathematics: Analysis, Preconditioning, and Applications</i>	
member of the project team; PI: Miroslav Tůma	
GAUK student research grant 695612	2012 – 2014
principal investigator (team of 3 students)	

GAAV grant IAA100300802

2009 – 2012

Theory of Krylov subspace methods and its relationship to other mathematical disciplines
member of the project team; PI: Zdeněk Strakoš

INVITED CONFERENCE TALKS

GAMM Workshop on Applied and Numerical Linear Algebra 2022 Prague (CZ), September 2022
XXI Householder Symposium on Numerical Linear Algebra Selva di Fasano (I), June 2022
Seminar on Numerical Analysis, SNA '21 online, January 2021

AWARDS

Otto Wichterle Award, awarded by the Czech Academy of Sciences 2022
Dean's award for best rated lecturers, awarded by the dean of FMP CU 2021
prof. Babuška Prize, awarded by the Czech Society for Mechanics 2012, 2017
2nd place for diploma thesis, 3rd place for dissertation thesis
SIAM Student Chapter Certificate of Recognition 2014
awarded by the Society for Industrial and Applied Mathematics (SIAM)

PUBLICATIONS

12 published papers in quality peer-reviewed journals
updated list is available on my webpage: papez.org/publications.html

PROFESSIONAL ACTIVITIES

PANM21, main local organizer of the conference June 19-24, 2022
GATIPOR workshop, co-organizer of the scientific workshop June 8-10, 2022
18th European Finite Element Fair, co-organizer of the conference September 10-11, 2021
Programming in MATLAB workshop 2012, 2014, 2016
organizer and lecturer of one-week intensive courses
Charles University Chapter of SIAM, president July 2012 – June 2015
Refereeing: journals (SINUM, Numerical Algorithms, NLA, . . .), conferences (PARCO2017, PASC '18),
grant agencies (GAUK)

TEACHING

Charles University, exercises (0+2) for undergraduate courses
Linear Algebra 2, NMAG112 summers 2019/20, 20/21, 21/22
Analysis of Matrix Calculations 1, NMNM331 winters 2020/21, 21/22
Linear Algebra 1, NMAG111 winters 2020/21, 21/22
Fundamentals of Numerical Mathematics, NMNM201 winters 2014/15, 15/16

July 7, 2022