Jan Papež

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Employment

Institute of Mathematics, Czech Academy of Sciences   from Jan. 2020
　　researcher (from Jan. 2023), previously (2020 – 2022) postdoc

Inria Paris, postdoc   2017 – 2019
　　research group SERENA led by Martin Vohralík   July – Dec. 2019
　　research group ALPINES led by Laura Grigori   Mar. 2017 – June 2019

Institute of Computer Science, Czech Academy of Sciences   2011 – 2017
　　Ph.D. student position in Department of Computional Methods

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Education

Faculty of Mathematics and Physics, Charles University, Prague

　　Ph.D. in Scientific Computing (advisor: Zdeněk Strakoš)   2017
　　　　thesis: *Algebraic error in matrix computations in the context of numerical solution of partial differential equations*

　　Master in Numerical and Computational Mathematics (summa cum laude)   2011

Université Pierre et Marie Curie, Paris   Jan. – 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 Projects (recent)

Czech Science Foundation project 23-06159S   from 2022
　　Vortical structures: advanced identification and efficient numerical simulation, member of the project team; PI: Jakub Šístek

Czech Science Foundation project 20-01074S   2020 - 2022
　　Adaptive methods for the numerical solution of partial differential equations: analysis, error estimates and iterative solvers, member of the project team; PI: Vít Dolejší

GATIPOR   2019
　　Guaranteed fully adaptive algorithms with tailored inexact solvers for complex porous media flows; starting research position; ERC Consolidator Grant, PI: Martin Vohralík

B3DCMB, *Big Bang from Big Data of the Cosmic Microwave Background*   2018 – 2019
　　member of the project team; French National Research Agency project, coordinator and scientific director: Radek Stompor

NLAFET, *Parallel Numerical Linear Algebra for Extreme Scale Systems*   2017 – 2019
　　postdoc; Horizon 2020 project, coordinator and scientific director: Bo Kågström

ERC-CZ project, *MORE: MOdelling REvisited + MOdel REduction*   2012 – 2017
　　member of the project team; PI: Josef Málek

Invited talks

Student workshop on Applied Mathematics   Prague (CZ), Nov. 2022
GAMM Workshop on Applied and Numerical Linear Algebra 2022   Prague (CZ), Sept. 2022
XXI Householder Symposium on Numerical Linear Algebra   Selva di Fasano (I), June 2022
Seminar on Numerical Analysis, SNA´21   online, Jan. 2021

———— AWARDS ——————————————————————————————————

Otto Wichterle Award for promising young scientists at the Czech Academy of Sciences 2022

Dean's award for best rated lecturers, awarded by the dean of FMP CU 2021, 2022

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 +1 accepted 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 2022

GATIPOR workshop, co-organizer of the scientific workshop June 2022

18th European Finite Element Fair, co-organizer of the conference Sept. 2021

Programming in MATLAB workshop 2012, 2014, 2016
    organizer and lecturer of one-week intensive courses

Charles University Chapter of SIAM, president 2012 – 2015

Refereeing: journals (SINUM, IMAJNA, BIT, . . .), conferences (PARCO2017, PASC´18), grant agencies (GAUK)

———— TEACHING ——————————————————————————————

Charles University, exercises (0+2) for undergraduate courses

Analysis of Matrix Calculations 1, NMNM331	winters 2020/21, 21/22, 22/23, 23/24
Fundamentals of Numerical Mathematics, NMNM201	winters 2014/15, 15/16, 23/24
Linear Algebra 1, NMAG111	winters 2020/21, 21/22
Linear Algebra 2, NMAG112	summers 2019/20, 20/21, 21/22

Thesis advisor: Adam Piskalla (2023, bachelor)

December 8, 2023