
EMPLOYMENT

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| 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 Computational Methods | |

EDUCATION

Faculty of Mathematics and Physics, Charles University, Prague

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| Ph.D. in Scientific Computing (advisor: Zdeněk Strakoš) | 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 |
| 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)

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| Czech Science Foundation project 23-06159S | from 2022 |
| <i>Vortical structures: advanced identification and efficient numerical simulation</i> , member of the project team; PI: Jakub Šístek | |
| Czech Science Foundation project 20-01074S | 2020 - 2022 |
| <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 | 2019 |
| <i>Guaranteed fully adaptive algorithms with tailored inexact solvers for complex porous media flows</i> ; 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, <i>MORE: MOdelling REvisited + MOdel REDuction</i> | 2012 – 2017 |
| member of the project team; PI: Josef Málek | |

INVITED TALKS

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| 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

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| 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 2nd place for diploma thesis, 3rd place for dissertation thesis | 2012, 2017 |
| SIAM Student Chapter Certificate of Recognition awarded by the Society for Industrial and Applied Mathematics (SIAM) | 2014 |

PUBLICATIONS

1 book chapter + 13 published papers in quality peer-reviewed journals
updated list is available on my webpage: papez.org/publications.html

PROFESSIONAL ACTIVITIES

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| PANM21, PANM22, main local organizer of the conferences | 2022, 2024 |
| 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 organizer and lecturer of one-week intensive courses | 2012, 2014, 2016 |
| Charles University Chapter of SIAM, president | 2012 – 2015 |
| Refereeing: journals (SIMAX, SINUM, IMAJNA, ...), conferences (PARCO2017, PASC'18), grant agencies (GAUK) | |

TEACHING (AT CHARLES UNIVERSITY)

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| graduate course Multilevel Methods NMNV571 | summer 2023/24 |
| exercises (0+2) for undergraduate courses: | |
| Analysis of Matrix Calculations 1, NMNM331 | winters 2020/21, 21/22, 22/23, 23/24, 24/25 |
| Fundamentals of Numerical Mathematics, NMNM201 | winters 2014/15, 15/16, 23/24, 24/25 |
| 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); 4 bachelor theses to be submitted in 2024