Junming DUAN

HUMBOLDT RESEARCH FELLOW

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Academic Positions __

October 2023 – September 2025 Humboldt Research Fellow

Institut für Mathematik, Universität Würzburg, Germany

Host Professor: Prof. Dr. Christian Klingenberg

September 2021 – September 2023 Postdoctoral Researcher

MCSS, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Mentor: Prof. Jan S. Hesthaven

Education ___

September 2016 - July 2021 Ph.D. in Computational Mathematics

Peking University, China

Entropy stable numerical methods for special relativistic (magneto)hydrodynamics

Advisor: Prof. Huazhong Tang

September 2012 - July 2016 B.Sc. in Information and Computing Science

Peking University, China

Research Interests ___

- Numerical methods for hyperbolic conservation laws
- Computational fluid dynamics
- High-order accurate numerical methods
- Structure-preserving methods
- Moving mesh methods
- Reduced-ordel modeling
- Machine learning enhanced data-driven methods

Research Publications ___

JOURNAL ARTICLES

- 1. **J.M. Duan**, Q. Wang, and J.S. Hesthaven, Machine learning enhanced aerodynamic forces prediction based on sparse pressure sensor inputs, accepted by **AIAA J.**, 2024. *arXiv:2305.09199*.
- 2. **J.M. Duan*** and J.S. Hesthaven, Non-intrusive data-driven reduced-order modeling for time-dependent parametrized problems, *J. Comput. Phys.*, 497: 112621, 2024. *arXiv:2303.02986*.
- 3. J. Wang, **J.M. Duan**, Z.W. Ma, and W. Zhang, An adaptive moving mesh finite difference scheme for tokamak magneto-hydrodynamic simulations, *Comput. Phys. Commun.*, 294: 108951, 2024.
- 4. Z.H. Zhang, **J.M. Duan***, and H.Z. Tang, High-order accurate well-balanced energy stable adaptive moving mesh finite difference schemes for the shallow water equations with non-flat bottom topography, **J. Comput. Phys.**, 492: 112451, 2023. *arXiv*:2303.06924.
- S.T. Li, J.M. Duan, and H.Z. Tang, High-order accurate entropy stable adaptive moving mesh finite difference schemes for (multi-component) compressible Euler equations with the stiffened equation of state, Comput. Methods Appl. Mech. Engrg., 399: 115311, 2022. arXiv:2202.07989.
- J.M. Duan and H.Z. Tang, High-order accurate entropy stable adaptive moving mesh finite difference schemes for special relativistic (magneto)hydrodynamics, J. Comput. Phys., 456: 111038, 2022. arXiv:2107.12027.
- 7. **J.M. Duan** and H.Z. Tang, An analytical solution of the isentropic vortex problem in the special relativistic magnetohydrodynamics, *J. Comput. Phys.*, 456: 110903, 2022. *arXiv:2107.01966*.
- 8. **J.M. Duan** and H.Z. Tang, High-order accurate entropy stable finite difference schemes for the shallow water magnetohydrodynamics, *J. Comput. Phys.*, 431: 110136, 2021. *arXiv:2003.10081*.

- 9. **J.M. Duan** and H.Z. Tang, Entropy stable adaptive moving mesh schemes for 2D and 3D special relativistic hydrodynamics, *J. Comput. Phys.*, 426: 109949, 2021. *arXiv:2007.12884*.
- 10. **J.M. Duan** and H.Z. Tang, High-order accurate entropy stable nodal discontinuous Galerkin schemes for the ideal special relativistic magnetohydrodynamics, *J. Comput. Phys.*, 421: 109731, 2020. *arXiv:1911.03825*.
- 11. **J.M. Duan** and H.Z. Tang, High-order accurate entropy stable finite difference schemes for one- and two-dimensional special relativistic hydrodynamics, *Adv. Appl. Math. Mech.*, 12(1): 1-29, 2020. *arXiv:1905.06092*.
- 12. **J.M. Duan** and H.Z. Tang, An efficient ADER discontinuous Galerkin scheme for directly solving Hamilton-Jacobi equation, *J. Comput. Math.*, 38(1): 58-83, 2020. *arXiv:1901.10228*.
- 13. D. Ling, **J.M. Duan**, and H.Z. Tang, Physical-constraints-preserving Lagrangian finite volume schemes for one- and two-dimensional special relativistic hydrodynamics, *J. Comput. Phys.*, 396: 507-543, 2019. *arXiv*:1901.10625.
- 14. **J.M. Duan** and H.Z. Tang, A second-order accurate scheme for a kinetic equation of two-dimensional Vicsek swarming model, *Nat. Sci. J. Xiangtan Univ.*, 41(1): 1-14, 2019. (in Chinese)
- 15. **J.M. Duan**, Y.Y. Kuang, and H.Z. Tang, Model reduction of a two-dimensional kinetic swarming model by operator projections, *East Asian J. Appl. Math.*, 8(1): 151-180, 2018. *arXiv:1701.02888*.

PREPRINTS

16. Z.H. Zhang, H.Z. Tang, and **J.M. Duan***, High-order accurate well-balanced energy stable finite difference schemes for multi-layer shallow water equations on fixed and adaptive moving meshes, submitted to **J.** *Comput. Phys.*, 2023. *arXiv:2311.08124*.

| Awards & Honors | |
|---|----------------------|
| Humboldt Research Fellowship for Postdoctoral Researchers, Alexander von Humboldt Foundatio | n July 2023 |
| Outstanding Graduate of Peking University, Peking University | July 2021 |
| National Scholarship for Graduate Student, Ministry of Education of the P.R. China | December 2020 |
| Merit Student of Peking University, Peking University | October 2020 |
| The First Prize in Outstanding Youth Paper Award of Beijing Society of Computational | August 2020 |
| Mathematics, Beijing Society of Computational Mathematics | |
| BICMR Scholarship for Graduate Student, Beijing International Center for Mathematical Research | 2019-2020 |
| (BICMR), Peking University | |
| President Scholarship for PhD Student, Peking University | 2018-2020 |
| Founder Scholarship, Peking University | September 2019 |
| DTZ Cushman & Wakefield Scholarship, Peking University | September 2017 |
| Outstanding Undergraduate of Peking University, Peking University | July 2016 |
| Conference 0 Talles | |
| Conferences & Talks | |
| Development of High-Order Methods for Hyperbolic PDEs , Southern University of Science and | March 15-19, 2024 |
| Technology, Shenzhen, China | |
| Network Meeting of the Alexander von Humboldt Foundation , Universität Konstanz, Konstanz, Germany | February 21-23, 2024 |
| XVII. Würzburg Workshop on Stellar Astrophysics in Heidelberg, Heidelberg Institute for | December 18-19, 2023 |
| Theoretical Studies (HITS), Heidelberg, Germany (Plenary talk: Adaptive moving mesh methods in | |
| hydrodynamics) | |
| CAM Seminar, Southern University of Science and Technology, Shenzhen, China (Talk: Machine | July 01, 2023 |
| learning based non-intrusive reduced-order modeling and aerodynamic forces prediction) | • • |
| ECCOMAS YIC 2023: 7th Young Investigators Conference, University of Porto, Porto, Portugal | June 19-21, 2023 |
| (Talk: Non-intrusive data-driven reduced-order modeling for time-dependent parametrized problems) | · |
| Swiss Numerics Day 2023, Universität Bern, Bern, Switzerland (Talk: Machine learning enhanced | June 07, 2023 |
| aerodynamic forces prediction based on sparse pressure sensor inputs) | |
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| Conferences & Talks (continued) | |
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| MATHICSE Retreat, Bienne, Switzerland (Talk: Machine learning enhanced aerodynamic forces | June 05-06, 2023 |
| prediction based on sparse pressure sensor inputs) | • |
| Oberseminar, host by Prof. Christian Klingenberg, online (Talk: Data-driven reduced-order modeling | November 17, 2022 |
| for time-dependent parametrized problems) | |
| MultiMat 2022: 10th International Conference on Numerical Methods for Multi-Material Fluid | August 22-26, 2022 |
| Flow, Universität Zürich, Zürich, Switzerland (Talk: High-order accurate entropy stable adaptive | |
| moving mesh methods) | |
| MATHICSE Retreat, Villars-sur-Ollon, Switzerland (Talk: High-order accurate entropy stable adaptive | June 27-29, 2022 |
| moving mesh methods) | |
| Symposium on High-Fidelity Numerical Simulation of Fluid Problems, Peking University, | June 05-07, 2021 |
| Beijing, China (Talk: Entropy stable schemes for RHD) | |
| Forum of Numerical Methods and Applications in Fluids, Xiangtan University, Xiangtan, China | December 11-13, 2020 |
| (Talk: Entropy stable adaptive moving mesh schemes for RHD) | |
| Student Forum of Chinese Society of Industrial and Applied Mathematics, online (Talk: Entropy | November 14-15, 2020 |
| stable adaptive moving mesh schemes for RHD) | |
| The National Mechanics Graduate Student Forum, Peking University, Beijing, China (Poster: | November 06-08, 2020 |
| High-order entropy stable DG schemes for RMHD) | |
| Selection of Excellent Young Scholar's paper of Beijing Society of Computational Mathematics, | August 30, 2020 |
| online (Talk: PCP Lagrangian scheme for RHD. The first prize.) | |
| Annual Meeting on High Resolution Method for Multi-Material Hydrodynamics of Science | November |
| Challenge Project, Xiamen University, Xiamen, China (Talk: PCP Lagrangian scheme for RHD) | 29-December 01, 2019 |
| Workshop on Numerical Methods for Complex Physical Problems, Nanjing University of | August 28-30, 2019 |
| Aeronautics and Astronautics, Nanjing, China (Talk: High-order entropy stable finite difference | |
| schemes for RHD) | |
| The 12th National Annual Meeting of Computational Mathematics, Harbin, China (Talk: | |
| 11. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | July 31-August 04, 2019 |
| High-order entropy stable finite difference schemes for RHD) | |
| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy o | |
| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy o Mathematics and System Science, Chinese Academy of Science, Beijing, China (Talk: PCP) | |
| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy o Mathematics and System Science, Chinese Academy of Science, Beijing, China (Talk: PCP Lagrangian scheme for RHD) | f June 22, 2019 |
| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy of Mathematics and System Science, Chinese Academy of Science, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Annual Meeting of Center for Applied Physics and Technology, Peking University, Beijing, China | |
| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy of Mathematics and System Science, Chinese Academy of Science, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Annual Meeting of Center for Applied Physics and Technology, Peking University, Beijing, China (Talk: PCP Lagrangian scheme for RHD) | f June 22, 2019 December 13, 2018 |
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| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy of Mathematics and System Science, Chinese Academy of Science, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Annual Meeting of Center for Applied Physics and Technology, Peking University, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Annual Meeting of Science Challenge Project, Jilin University, Changchun, China (Talk: PCP Lagrangian scheme for RHD (with Dan Ling), selected as one of the five best posters) | June 22, 2019 December 13, 2018 November 17-19, 2018 |
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| Graduate Student Forum of Chinese Society of Industrial and Applied Mathematics, Academy of Mathematics and System Science, Chinese Academy of Science, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Annual Meeting of Center for Applied Physics and Technology, Peking University, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Annual Meeting of Science Challenge Project, Jilin University, Changchun, China (Talk: PCP Lagrangian scheme for RHD (with Dan Ling), selected as one of the five best posters) Beijing Seminar on Computational Fluid Dynamics, Beijing Institute of Applied Physics and Computational Mathematics, Beijing, China (Talk: PCP Lagrangian scheme for RHD) Teaching Assistant Analysis III, École Polytechnique Fédérale de Lausanne Advanced Analysis I, École Polytechnique Fédérale de Lausanne Numerical Methods of Partial Differential Equations, Peking University Linear Algebra B, Peking University Advanced Algebra II, Peking University | Fall 2022 Fall 2019 Fall 2018 Spring 2018 |

| Supervision | Fall, 2023 |
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| Jan S. Hesthaven Semester project: Scalable implementation of high-order entropy stable finite difference schemes. Bartul Kovacic, EPFL, with Prof. Jan S. Hesthaven | Fall, 2022 |
| Master thesis: High-order entropy stable discontinuous Galerkin schemes using artificial viscosity. Louis Vincent Marie Jaugey, EPFL, with Prof. Jan S. Hesthaven | Fall, 2022 |
| Master thesis: Investigation of the aerosol evolution and delivery into the upper airway under transient conditions. Filippo Zacchei, EPFL, with Prof. Jan S. Hesthaven | Fall, 2022 |
| Research Projects | |
| New Efficient Structure-Preserving Numerical Methods for the Multi-dimensional Euler Equations: design efficient adaptive moving mesh methods and reduced-order models with structure preservation for solving the multi-dimensional Euler equations | 2023-2025 |
| Supported by Alexander von Humboldt-Stiftung. Design and verification of numerical methods. PI Sense Dynamics: construct precise surrogate models of transient nonlinear physical phenomena | 2021-2022 |
| related to aerodynamics | 2021 2022 |
| Supported by Swiss Data Science Center. Design and verification of numerical simulations for a 3D drone. | |
| PI: Dr. Doytchinov Iordan | |
| High-Order Accurate Adaptive Moving Mesh Methods for Compressible Fluid Flows: design and | 2021-2022 |
| verification of high-order accurate adaptive moving mesh methods for solving the Euler and | |
| Navier-Stokes equations in 2D and 3D | |
| Supported by National Numerical Windtunnel Project. Design and verification of numerical methods. Pl: Prof. Huazhong Tang | |
| Computational Methods for the Interface and Elastoplastic Fracture in Fluid Mechanics: design and | 2019-2020 |
| verification of high-order accurate adaptive moving mesh methods for solving multi-material flows | 2013 2020 |
| Supported by Science Challenge Project. Design and verification of moving mesh schemes for | |
| multi-component flows. PI: Prof. Huazhong Tang | |
| High-Order Accurate Robust Numerical Schemes for Multi-Material Implosion Hydrodynamics: research on high-order accurate Lagrangian schemes for solving compressible hydrodynamics | 2016-2018 |
| Supported by Science Challenge Project. Verification of high-order accurate Lagrangian schemes. Pl: Prof. | |
| Huazhong Tang | |
| | |
| Professional Services | |
| Refereeing: AMS Mathematical Reviews, Journal of Computational Physics, Journal of Computational and | * * |
| Mathematics, Communications in Nonlinear Science and Numerical Simulation, International Journal for | |
| Methods in Engineering, East Asian Journal on Applied Mathematics, Communications in Computational | - |
| Journal of Scientific Computing, International Journal of Computational Methods, Computational Geos | CIETICES |

Other Information ___

■ Skills: C, C++, Python, Julia, MATLAB, Fortran, MPI, PyTorch, OpenFOAM, PETSc, Linux shell, ŁTFX, . . .

References_

Prof. Huazhong Tang

School of Mathematical Sciences **Peking University** Beijing, China

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Prof. Jan S. Hesthaven

Institute of Mathematics École Polytechnique Fédérale de Lausanne Lausanne, Switzerland

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References (continued)

Prof. Christian Klingenberg

Institute of Mathematics Julius-Maximilians-Universität Würzburg Würzburg, Germany

■ klingen@mathematik.uni-wuerzburg.de