Shi Jin

My homepage
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Employment

Amazon Web Services (AWS)   Seattle, WA, USA
Software Development Engineer   *July 2019 – Present*

Memeber of AWS High-performance computing (HPC) team. Developer of HPC middlewares (Libfabric, Open MPI) and infrastructure.

Education

University of Washington (UW)   Seattle, WA, USA
PhD in Physics   *June 2019*
- Thesis: *Fission dynamics in a microscopic theory.*
- Advisor: Aurel Bulgac, Professor.

University of Science and Technology of China (USTC)   Hefei, Anhui, China
Bachelor of Science, with distinction   *June 2013*
- Outstanding Graduates Award (top 5% academic performance)

Knowledge & Skills

- 8+ Years of independent research in computational nuclear physics and HPC application development, published in top peer-reviewed journals like Physical Review Letters, Physical Review C, etc. (see publications).
- 3+ Years of experience in HPC middleware development.
- 3+ Years of experience in HPC infrastructure development based on AWS cloud.
- 3+ Years of experience with Docker, automated testing platforms (Travis, Jenkins), and other CI/CD pipelines.
- Mastery of programming languages: Python, C, C++, assembly language, Matlab, Fortran, Bash.
- Contribute to various Open Source projects on GitHub (OpenMPI, libfabric)

Selected publications

The full publication list and citation record can be retrieved from my Google Scholar.

- S. Jin, A. Bulgac, K. Roche and G.Wlazłowski, *Coordinate-Space Solver for Superfluid Many-Fermion Systems with Shifted Conjugate Orthogonal Conjugate Gradient Method*, Phys. Rev. C 95, 044302 (2017)
- S. Jin, K. Roche, I. Stetcu, I. Abdurrahman, A. Bulgac, The LISE package: Solvers for static and time-dependent superfluid local density approximation equations in three dimensions, Computer Physics Communications 269 (2021) 108130
- A. Bulgac, I. Abdurrahman, S. Jin, K. Godbey, N. Schunck, and I. Stetcu, *Fission Fragment Intrinsic Spins and Their Correlations* , Phys. Rev. Lett. 126, 142502 (2021)
- A. Bulgac and S. Jin, *Dynamics of Fragmented Condensates and macroscopic entanglement*, Phys. Rev. Lett. 119, 052501 (2017)