

Spencer H. Bryngelson

Assistant Professor

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Education

- (2017) Ph.D., Theoretical & Applied Mechanics, University of Illinois at Urbana–Champaign
- (2015) M.S., Theoretical & Applied Mechanics, University of Illinois at Urbana–Champaign
- (2013) B.S., Mechanical Engineering & Engineering Mathematics, University of Michigan–Dearborn

Research positions

- (2021–Present) Assistant Professor, School of Computational Science & Engineering, College of Computing, Georgia Institute of Technology
- (2022) Visiting Scholar, Stanford University, Center for Turbulence Research
- (2018–21) Senior Postdoctoral Scholar, California Institute of Technology
- (2019) Visiting Researcher, Massachusetts Institute of Technology
- (2017–18) Postdoctor Researcher, XPACC (PSAAP II)
- (2013–17) Graduate Research Fellow, University of Illinois at Urbana–Champaign

Awards

- (2022) Ralph E. Powe Junior Faculty Enhancement Award, Oak Ridge National Lab
- (2017) Stanley Weiss Outstanding Dissertation Award, University of Illinois at Urbana–Champaign
- (2016) Hassan Aref Award (research in fluid mechanics), University of Illinois at Urbana–Champaign
- (2015) Alumni Teaching Fellowship, University of Illinois at Urbana–Champaign

Abbreviated funding history

- (2022–26) PI: DOD ONR N000142212519, “*Stochastic framework for cavitating flows: mesoscale modeling and acceleration*” (\$560K)
- (2022–23) PI: DOE ORAU Powe, “*A methodologically coherent multi-scale model for multiphase flow*” (\$10K)
- (2022) PI: GT Seed Grant, Forming Teams “*Quantum computing for next-generation engineering simulation*” (\$50K)
- (2022) PI: GTQA DE00013211, “*Quantum algorithms for lattice Boltzmann fluid flow simulation*” (\$14.5K)
- (2022) co-PI: GTRI IRAD, “*Quantum optimization for lattice Boltzmann simulation (QOLBS)*” (\$20K), PI B. Gard (GTRI)

Publications

See comp-physics.group/papers.