

Bili Dong

Curriculum vitae · current as of 2026-08-23

qobilidop.com · github.com/qobilidop/ · www.linkedin.com/in/qobilidop/ · scholar.google.com/citations?user=zFukAaUAAAAJ ·
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Employment

2022 – present	Software Engineer, Google
2021	Software Engineer Intern, Google
2020	Software Engineer Intern, ByteDance

Education

2020 – 2022	MS, Computer Science, UC San Diego
2014 – 2020	PhD candidate, Physics, UC San Diego
2010 – 2014	BS, Physics, Peking University

Service

2026	Program Chair, P4 Workshop
2026 – present	Member, Technical Steering Team, P4 Language Consortium
2024 – present	Google Summer of Code Org Admin & Mentor, P4 Language Consortium

Talks

2024	P4HIR: Towards Bridging P4C with MLIR. P4 Workshop.
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Publications

2025	ParserHawk: Hardware-aware parser generator using program synthesis. Xiangyu Gao, Jiaqi Gao, Karan Kumar G, Muhammad Haseeb, Ennan Zhai, Bili Dong , Joseph Tassarotti, Srinivas Narayana, Anirudh Sivaraman. ACM SIGCOMM.
2025	Introducing yt 4.0: Analysis and Visualization of Volumetric Data. Matthew Turk et al. (incl. Bili Dong). Technical report, Manubot.
2024	The AGORA High-resolution Galaxy Simulations Comparison Project. VI. Similarities and Differences in the Circumgalactic Medium. Clayton Strawn et al. (incl. Bili Dong). The Astrophysical Journal.
2024	The AGORA High-resolution Galaxy Simulations Comparison Project. V. Satellite Galaxy Populations in a Cosmological Zoom-in Simulation of a Milky Way–Mass Halo. Minyong Jung et al. (incl. Bili Dong). The Astrophysical Journal.

- 2024 The AGORA High-resolution Galaxy Simulations Comparison Project. IV. Halo and Galaxy Mass Assembly in a Cosmological Zoom-in Simulation at $z \leq 2$.
Santi Roca-Fàbrega et al. (incl. **Bili Dong**).
The Astrophysical Journal.
- 2022 Zenix: Efficient Execution of Bulky Serverless Applications.
Zhiyuan Guo, Zachary Blanco, Junda Chen, Jinmou Li, Zerui Wei, **Bili Dong**, Ishaan Pota, Mohammad Shahrad, Harry Xu, Yiyang Zhang.
arXiv.
- 2021 The AGORA High-resolution Galaxy Simulations Comparison Project. III. Cosmological Zoom-in Simulation of a Milky Way-mass Halo.
Santi Roca-Fàbrega et al. (incl. **Bili Dong**).
The Astrophysical Journal.
- 2020 The Keck Baryonic Structure Survey: using foreground/background galaxy pairs to trace the structure and kinematics of circumgalactic neutral hydrogen at $z \sim 2$.
Yuguang Chen, Charles C. Steidel, Cameron B. Hummels, Gwen C. Rudie, **Bili Dong**, Ryan F. Trainor, Milan Bogosavljević, Dawn K. Erb, Max Pettini, Naveen A. Reddy, Alice E. Shapley, Allison L. Strom, Rachel L. Theios, Claude-André Faucher-Giguère, Philip F. Hopkins, Dušan Kereš.
Monthly Notices of the Royal Astronomical Society.