

Shaopeng Zhu

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Education

University of Maryland, College Park
Ph.D. student, Compute Science, since 2017.

University of California, Davis
M.S., Computer Science, 2017.
Research advisor: Professor David Doty.
Field: computational complexity.

Peking University
B.A., Laws, 2010.

Publications

(By contribution) Shaopeng Zhu, Shih-Han Hung,
Shouvanik Chakrabarti and Xiaodi Wu.
On the Principles of Differential Quantum Programming Languages.
accepted (to appear in **PLDI 2020**).

(By contribution) Shih-Han Hung, Kesha Hietala, Shaopeng Zhu,
Mingsheng Ying, Michael Hicks, and Xiaodi Wu.
Quantitative Robustness Analysis of Quantum Programs.
POPL 2019: *Proceedings of the ACM on Programming Languages* 3,
no. POPL (2019): 31.

(In alphabetical order) David Doty and Shaopeng Zhu.
Computational Complexity of Atomic Chemical Reaction Networks.
SOFSEM 2018: *Proceedings of the 44th International Conference on
Current Trends in Theory and Practice of Computer Science*.

Research Activities

College Park, University of Maryland
workshop on Noisy Intermediate-Scale Quantum (NISQ) Technologies,
poster session, 2019.

Boston, Harvard University
Molecular Programming Project, poster session, 2016.

Languages and Skills

Proof Assistant: Coq.
Programming: OCaml; Python, C, C++, Matlab; \LaTeX .
Natural: Chinese (native), English (professional), French (beginner in reading).

Teaching

University of Maryland, College Park
Teaching Assistant, Discrete Structures, 2017, 2018, 2020.
Teaching Assistant, Computer Architecture, 2018.

University of California, Davis
Teaching Assistant, Introduction to Computation Theory, 2015, 2017.
Teaching Assistant, Discrete Mathematics (CS), 2016.
Teaching Assistant, Algorithm Design and Analysis, 2016.
Grader, Introduction to Computation Theory, 2017.

Awards and Fellowships

Dean's Fellowship

CS Department, University of Maryland College Park, 2017.

Jacob K. Goldhaber Travel Award

Graduate School, University of Maryland College Park, 2017.

International Conference Student Support Award

Graduate School, University of Maryland College Park, 2017.