Cheng Zhang

Curriculum vitae

Education

2018 — Now **Doctor of Philosophy, Computer Science**, Boston University, Boston, MA.

Research Interests: Formal Logic, Category Thoery, Type Thoery

2014 — 2018 **Bachelor of Art, Mathematics**, *with department honor, magna cume laude*, Wheaton College, Norton, MA.

Minor in Computer Science and Economics. Major GPA: 3.87, Overall GPA: 3.83

Honors and Fellowships: Dean's Lists, 2014, 2015, 2016, 2017, 2018; Wheaton Fellows, 2016; Faculty-Student Research Awards, 2017

Honor Thesis: King in Generalized Tournaments.

2016 — 2017 **Study Aboard, Economics**, London School Of Economics, London, United Kingdom.

Research Projects

2020 — Now **Incorrectness Logic**.

Studies categorical structure related to Incorrectness Logic, with inspiration from Hoare Logic

2017 — 2018 **Mathematics Honor Thesis**, *Wheaton College Mathematics Department*, Norton, MA.

Studies kings in generalization of tournament, with a special focus on quasi-transitive oriented graph.

2015 — 2018 **Software Leader**, *Lexomics Research Group, Wheaton College*, Norton, MA.

- Lead the development of Lexos, a web app for text analysis workflow.
- Help the team to adopt modern software development paradigm and workflow.
- Designed a new architecture and a new python style guide for the project.

Publications

2018 **Zhang C.**, *King in Generalized Tournaments*, Wheaton College Honor Thesis.

2018 **Zhang C., Feng W., Steffens E., Landaluce A., Kleinman S., LeBlanc D. M.**, *Lexos 2017: Building Reliable Software in Python*, Conference for Computing in Small Colleges, UNH-Manchester.

Talks

2020 **Mark L., Cheng Z., William B.**, *Developing a Dependently Typed Language with Runtime Proof Search (Extended Abstract)*, The workshop on Type-Driven Development.

2018 **Zhang C., LeBlanc D. M.**, *Lexos 2017: Building Reliable Software in Python*, Conference for Computing in Small Colleges, UNH-Manchester.

2018 **Zhang C.**, *Kings in Quasi-transitive Oriented Graph*, Wheaton Summit For Woman In STEM.

Employment

2019 — Now **Teaching Fellow**, *Boston University*, Boston, MA.

- CS 230: Principle of Programming Language, 2020 Fall
- CS 111: Introduction to Computer Science 1, 2020 Summer
- CS 112: Introduction to Computer Science 2, 2020 Summer
- CS 235: Algebraic Algorithm, 2020 Spring
- CS 132: Geometric Algorithm, 2019 Fall
- CS 230: Principle of Programming Language, 2019 Spring

2019 **Grader**, *Boston University CS 511 Formal Method*, Boston, MA.

2015 — 2018 **Student Technician**, *Wheaton College Technology Support*, Norton, MA.

2017 — 2018 **Grader**, *Wheaton College MATH 241 Theory of Probability*, Norton, MA.

Honors

2018 — Now A member of Phi Beta Kappa.

2018 Madeleine F. Clark Wallace Mathematics Prize.
Fred Kollett Prize in Mathematics & Computer Science.
Phi Beta Kappa Graduate Scholarship.