

Xueying Qin | Curriculum Vitae

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📄 <https://xyunknown.github.io>

Education

University of Edinburgh

PhD., School of Informatics

Principal Supervisor: Michel Steuwer

Edinburgh

2020–Present

University of Glasgow

BSc Hons. (First Class), Computing Science (Faster Route)

Dissertation: Proving the Correctness of Rewrite Rules in LIFT's Rewrite-Based System

Glasgow

2017–2020

Publications

Shoggoth: A Formal Foundation for Strategic Rewriting

Xueying Qin, Liam O'Connor, Rob van Glabbeek, Peter Höfner, Ohad Kammar, Michel Steuwer

POPL

2024

Primrose: Selecting Container Data Types by Their Properties

Xueying Qin, Liam O'Connor, Michel Steuwer

(Programming)

2023

Achieving High Performance the Functional Way:

Expressing High-Performance Optimizations as Rewrite Strategies

Bastian Hagedorn, Johannes Lenfers, Thomas Kœhler, Xueying Qin, Sergei Gorlatch, Michel Steuwer

CACM

2023

Achieving high-performance the functional way:

a functional pearl on expressing high-performance optimizations as rewrite strategies

Bastian Hagedorn, Johannes Lenfers, Thomas Kœhler, Xueying Qin, Sergei Gorlatch, Michel Steuwer

ICFP

2020

Experience

Huawei R&D

Full-time and Part-time Research Internship

Compiler and programming language research

Edinburgh

2022–2023

Teaching

Compiler Technique (University of Edinburgh Level 3/4 course)

Lab Demonstrator

Edinburgh

2021/2022