

David Kitchin

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I am a doctoral student conducting research in programming languages, with an emphasis on concurrency, cloud computing, and computation orchestration. My goal is to apply the theory of programming languages in the real world to make concurrent and distributed programming simpler, easier, and more elegant.

Education

University of Texas at Austin

PhD student in Computer Science

Advisor: [Jayadev Misra](#)

Austin, TX
2004 - present

Carnegie Mellon University

Bachelor of Science in Computer Science and Cognitive Science

GPA: 3.9/4 in Computer Science, 3.7/4 overall

Pittsburgh, PA
2000 - 2003

Skills

Highly skilled programmer: **Scala**, **Java**, **ML**, **Orc**. Familiar with many other languages. Substantial **research experience**, with multiple publications. **Project lead experience** as head of the Orc implementation open source project. **Management experience** as senior student in the Orc research group.

Important note: I *refuse* to program in C++.

Employment

Graduate Research Assistant

University of Texas at Austin - [Orc Research Group](#)

Developed a substantial portion of the code base for the Orc language implementation and supervised others' contributions. Helped develop the theory of the Orc calculus.

Managed and assisted research efforts of other students in the group.

Austin, TX
2007 - present

Graduate Teaching Assistant

University of Texas at Austin

TA for Programming Languages (undergraduate and graduate),
Computation Orchestration, and Introductory Computer Science.

Austin, TX
2005 - 2007

Undergraduate Teaching Assistant

Carnegie Mellon University

TA for Principles of Programming and Cognitive Psychology.

Pittsburgh, PA
2003 - 2004

Undergraduate Research Assistant

Carnegie Mellon University - [ALADDIN Research Group](#), [REU](#)

Studied game theoretic problems in multicast networks.

Co-developed the [ESP Game](#) prototype.

Pittsburgh, PA
Summer 2002

Intern

Compaq Computer Corporation - Alpha Development Group

Wrote support code for chip layout verification tools.

Shrewsbury, MA
Summer 2000
Summer 2001