

Kristopher Harper

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EDUCATION

University of Chicago Chicago, IL

- B.A. in Mathematics with Honors, June 2011
- Minor in Physics
- GPA 3.5/4.0

WORK EXPERIENCE

Research Technician and Web Developer

University of Alaska Fairbanks

Department of Planning, Analysis and Institutional Research

December 2008 to Present

- Analyze and manage data, specifically by building and maintaining a web interface for user data access
- Developed the UAF Factbook project for online, dynamic data queries
- Work regularly on location in a recurring temporary position, as well as remotely from Chicago

Young Scholars Program Instructor

University of Chicago

Department of Mathematics

September 2008 to June 2011

- Taught middle and high school students, frequently of low-income and underrepresented backgrounds
- Educated in a small group setting, teaching proof-based mathematics topics not typically addressed in a standard curriculum
- Participated in both summer and year long programs for three years

Teaching Assistant

University of Chicago

Department of Mathematics

September 2008 to June 2011

- Duties including grading as well as holding office hours and basic instruction

Undergraduate Research Position

University of Chicago

Department of Mathematics

Summers 2009, 2010

- Participated in an undergraduate research program, with an emphasis on algebraic number theory
- Paper title: *Explorations of Sperner's Lemma and its Connections to Brouwer's Fixed Point Theorem*
- Paper title: *Group Cohomology and Kummer Theory*

Undergraduate Research Position

University of Washington

Department of Mathematics

Summer 2008

- Performed independent undergraduate research in mathematics
- Paper title: *On the Recoverability of Amalgamated and Separated Graphs Using Medial Graphs*

Undergraduate Research Assistant

University of Alaska Fairbanks

Department of Planning, Analysis and Institutional Research

May 2007 to September 2007

- Wrote and developed SAS code to analyze data and generate reports
- Constructed a peer institution comparison project to examine and evaluate similar data sets

LEADERSHIP EXPERIENCE

Habitat for Humanity

2008-2011

- Chapter board member and webmaster. Led trips, organized fundraisers and managed the website

University of Chicago Orientation Aide

September 2008

- Led house trips, activities and events for first-year orientation

Boy Scouts of America

1999 to 2007

- Earned the rank of Eagle Scout by leading and participating in service activities and troop outings

SKILLS

Computer Languages: PHP, C, C++, SQL, Scheme, bash, SAS, HTML and CSS, L^AT_EX

Software: Microsoft Office, Toad, QueryBrowser, SAS, Mathematica, vim

Operating Systems: OS X, Linux, Windows, some UNIX

Language: Competent in reading French