

ALYSSA HOPPER

Eager to apply analytical and problem-solving skills in a meaningful role

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EDUCATION

B.A. in Mathematics, Neuroscience minor

Carleton College

 Sept 2020 – June 2024  Northfield, MN

Thesis Title: The Continued Fraction Expansion of e

High School Diploma

Robbinsdale Armstrong High School

 Sept 2016 – June 2020  Plymouth, MN

EXPERIENCE

Math Tutor

 Sept 2018 – June 2024

- **Personal Tutor.** Volunteered to provide one-on-one instruction for a 7th grader in Algebra and Geometry.
- **High School Tutor.** Provided assistance in Algebra, Calculus, Statistics, and Chemistry to peers, including a student who only spoke Russian.
- **College Tutor.** Supported fellow students in advanced math courses such as Calculus, Mathematical Structures, Number Theory, and Abstract Algebra.

Administrative Assistant

Johnstone Supply

 Jun 2017 - Aug 2023  Golden Valley, MN

- Managed data entry and maintained customer files using Excel and other data management tools.
- Supported daily operations by filing and organizing customer information and business documents.
- Assisted with organizing and cataloging inventory, including tracking stock levels and ensuring accurate product information.

INTERESTS

Useful Interests

- Coding and Software Development
- Reading (50+ books a year)
- Genetics and Neuroscience
- Code Breaking and Theoretical Math




Less Useful but Still Fun Interests

- Crossword Puzzles and Sudoku Variants
- Running and Hiking
- Medieval and British History
- Piano and Singing

STRENGTHS

- Effective & Confident Communicator
- Problem Solver
- Curious and Inquisitive
- Quick Learner
- LaTeX
- Python
- C++
- Java
- HTML, CSS, and Javascript
- Excel
- Mathematical Reasoning
- Data Analysis
- Statistical Analysis

LANGUAGES

- English 
 - Native proficiency
- Russian 
 - Spoken in home and with overseas family.
- French 
 - Studied in high school, continued through college

COURSES

Mathematics

- Elementary Number Theory
- Analytic Number Theory
- Abstract Algebra
- Ordinary Differential Equations

Computer Science

- Data Structures
- Algorithms
- Computation and Complexity
- Artificial Life and Digital Evolution

Neuroscience and Biology

- Developmental Neurobiology
- Neurons, Circuits, and Behavior
- Genetics
- Sensation and Perception