

# Margaret E. Dorsey

CODE · MATH · GRAPHICS

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## Education

### Rochester Institute of Technology

Rochester, NY

GAME DESIGN AND DEVELOPMENT, B.S. COMPUTATIONAL MATHEMATICS B.S.

Fall 2014 - Present

COMPUTER SCIENCE, MINOR

JAPANESE LANGUAGE, MINOR

GPA: 4.0

Expected Graduation: May 2018

### Budapest Semesters in Mathematics

Budapest, Hungary

STUDY ABROAD

Summer 2016

## Coursework and Knowledge

### Languages and Software

C/C++, Java, HTML, CSS, Javascript, JQuery, OpenGL 4.5, DirectX11, MIPS Assembly, LaTeX, git, Autodesk Maya and Mudbox, Unity, MS Visual Studio, \*nix Environment

### Mathematics

Multivariable and Vector Calculus, Differential Equations, Linear Algebra, Discrete Math and Number Theory, Real Analysis and Measure Theory, Geometric Algebra, Newtonian Physics

### Computer Science

Computer Architecture and Organization, Networks and Network Programming, Graphics Programming, Parallel and Distributed Computing, Algorithm Analysis, Systems and Optimization

## Experience and Projects

### Interactive Games and Media and Computer Science Departments

Rochester Institute of Technology

TEACHING ASSISTANT AND GRADER

Spring 2016 - Present

Assisted with instruction and evaluation of undergraduate students in a variety of computing courses.

### IGM Department

Rochester, NY

GRAND STRATEGY RPGS

Fall 2014 - Present

Part of a team that designs and runs grand strategy role playing games for the IGM department students.

### Global Game Jam

Rochester, NY

GLOBAL GAME JAM 2016

January 2016

Led a team of six in the production of an infinite platformer game in Unity Engine over 48 continuous hours. Handled program architecture, documentation, source control, and the majority of back end code.

### Mathematics Department

Rochester Institute of Technology

UNDERGRADUATE RESEARCH

June 2015 - December 2015

Researched the application of Lie Groups of symmetry transformations to ordinary and partial differential equations, as well as variational problems.

### Crashtest Games

IGM Affiliated Club

PRESIDENT

Fall 2014 - Present

A club dedicated to the analysis, testing, iteration, and refinement of student, faculty, and professional games, both analog and digital.