



**Alina Chadwick**

+1(585)397-9704

PhD in Computer Science

The University of Rochester

✉ alina.chadwick@gmail.com

✉ achadwic@ur.rochester.edu

🐙 GitHub Profile

🌐 LinkedIn Profile

## EDUCATION

- **The University of Rochester** 2024-2028/9  
*PhD in Computer Science* GPA: 4.0
- **Dartmouth College** 2020-2024  
*B.A. in Computer Science and Economics* GPA: 3.5

## HONORS AND AWARDS

- **NSF Research Stipend** International Research Experience for Students IRES Program 2023
- **New York Andrew S. Macdowell Jr. 1944 Scholarship Fund** Dartmouth Club of Rochester 2020-2024

## RESEARCH EXPERIENCE

- **The University of Rochester** September 2023 - Present  
*PhD Research in Computer Science* Rochester, NY U.S.A
  - Working on developing a framework to assess fairness in the virtual democracy setting.
  - Topics: Algorithmic game theory, computational social choice, fairness, machine learning, algorithms
- **Dartmouth College** September 2023 - June 2024  
*Thesis Research: The airplane problem* Hanover, NH U.S.A
  - Published a year-long thesis advised by Professor Hsien-Chih Chang on matching passengers to airplane seats
  - Topics: Nash Social Welfare, matching algorithms, linear programming
- **National Science Foundation** June - August 2023  
*Research Fellow* Tokyo, Japan
  - Conducted a project on virtual makeup try-on. Submitted and presented an accepted Technical Communication to SIGGRAPH Asia.
  - Topics: Computer graphics, neural networks, cosmetic rendering, makeup transfer, machine learning.

## PUBLICATIONS

- **Papers in Conference Proceedings** December 2023  
*ACM Siggraph Asia 2023 (Accepted, Technical Communications)*
  - Publication Title: MicroGlam: Microscopic Skin Image Dataset with Cosmetics
  - Authors: Toby Chong, **Alina Chadwick**, I-Chao Shen, Haoran Xie, Takeo Igarashi
- **Talks** 2023-2024  
*Single-speaker Presentations*
  - International Symposium on Intelligence Design (March 2024)
  - SIGGRAPH Asia (December 2023)
  - JAIST IRES Physical AI Design Workshop (August 2023)

## WORK EXPERIENCE

- **DUST Identity** September - December 2022  
*Software Engineer Intern* Boston, MA U.S.A
  - Created an internal web app that serves as an admin portal, allowing DUST's customer success team to monitor customer account health and view data that indicate how each customer is using the product.
  - Frontend written in React-Admin and Javascript; Backend utilizes FastAPI and was written in Python
- **IBM** June - August 2022  
*Accelerate, Software Track* Remote
  - Virtually worked on frontend website development projects in HTML/CSS, JavaScript, and React
  - Participated in workshops on backend development and security

## TEACHING EXPERIENCE

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- **Dartmouth College, Computer Science Department**

*January 2021 - Present*

*Teaching Assistant*

Hanover, NH U.S.A

- Course: Introduction to Programming and Computation (COSC 01). Instructors: Vasanta Lakshmi-Kommimeni and Andrew Campbell
- Course: Discrete Mathematics in Computer Science (COSC 30). Instructor: Hsien-Chih Chang
- Course: Full-Stack Web Development (COSC 52). Instructor: Timothy Tregubov
- Course: Machine Learning and Statistical Analysis (COSC 74). Instructors: Soroush Vosoughi and Yujun Yan

- **Dartmouth College, Russian Department**

*January 2021 - Present*

*Apprentice Teacher*

Hanover, NH U.S.A

- Course: Introduction to Russian Language and Culture (RUS 01, RUS 02, RUS 03). Instructors: Alfa Rakova, Valentina Apresyan, Tatiana Filimonova

## SKILLS AND RESEARCH INTERESTS

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**Areas of Interest:** Game Theory, Algorithmic Economics, Computer Graphics, Human-Computer Interaction

**Spoken Languages:** English, Russian. Intermediate Spanish

**Programming Languages:** Python, Javascript, React, HTML/CSS, Java, C, GLSL

**Coursework:** (*Graduate*) Advanced Algorithms, Artificial Intelligence, PhD Research, Problem-Solving Seminar, (*Undergraduate*) International Finance, Monetary Policy and the Macroeconomy, International Trade, Econometrics, Network Science and Complex Systems, Macroeconomics, Microeconomics, Full-Stack Web Development, Computer Graphics, Algorithms, Machine Learning, Discrete Mathematics in Computer Science, Differential Equations, Software Design and Implementation, Problem Solving via Object-Oriented Programming, Multivariable Calculus.

## OTHER POSITIONS OF RESPONSIBILITY

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- **President** Women in Computer Science, Dartmouth College

*2022-2024*

- **Violinist** Individual Study Program under Omar Chen Guey at Dartmouth College

*2022-2024*

- **Volunteer** David's House through Kappa Kappa Gamma

*2021-2024*