# Georgiana **Haldeman**

VISITING ASSISTANT PROFESSOR · CSED RESEARCHER

Colgate University, Department of Computer Science, 13 Oak Drive, Hamilton, NY, 13346

☐ (732) 619-3847 | ✉ ghaldeman@colgate.edu | ⌂ https://www.cs.colgate.edu/~ghaldeman | georgianahaldeman

## Education

**Ph.D. in Computer Science**                                                                        *October 2021*
RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ

**B.S. in Computer Science**                                                                            *May 2013*
RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ

## Professional Experience

**Visiting Assistant Professor**                                                              *July 2021 - Present*
COLGATE UNIVERSITY

**Lecturer**                                                                                          *Spring 2018*
RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ

**Research Assistant**                                                                    *Fall 2013 - Spring 2021*
RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ

**Undergraduate Research Assistant**                                                     *Spring 2012 - Fall 2013*
RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ

**Software Developer**                                                                   *Spring 2011 - Fall 2012*
GO!FOTON, NJ RESEARCH AND DEVELOPMENT LAB

**Math and Computer Science Tutor**                                                      *Spring 2010 - Fall 2011*
RARITAN VALLEY COMMUNITY COLLEGE (RVCC), NJ

**Website Developer for the Tutoring Center**                                             *Fall 2009 - Fall 2011*
RARITAN VALLEY COMMUNITY COLLEGE (RVCC), NJ

## Teaching Experience

† *indicates course includes a weekly 2 hour laboratory in addition to lecture*

**Introduction to Cryptography (COSC 480)**                                                          *Fall 2022*
COLGATE UNIVERSITY - UNDERGRADUATE LIBERAL ART INSTITUTION WITH A 5 COURSE TEACHING LOAD

**Intro to Computing I (COSC 101)**†                                                     *Fall 2021, Spring 2022*
COLGATE UNIVERSITY - UNDERGRADUATE LIBERAL ART INSTITUTION WITH A 5 COURSE TEACHING LOAD

**Intro to Computing II (COSC 102)**†                                                    *Spring 2022, Fall 2022*
COLGATE UNIVERSITY - UNDERGRADUATE LIBERAL ART INSTITUTION WITH A 5 COURSE TEACHING LOAD

**Internet Technology (CS 352)**                                                                    *Fall 2020*
RUTGERS UNIVERSITY - COURSE TAUGHT AS A TEACHING ASSISTANT DURING PHD PROGRAM

**Introduction to Computer Science (CS 111)**                                                       *Spring 2018*
RUTGERS UNIVERSITY - COURSE TAUGHT AS A LECTURER DURING PHD PROGRAM

**Data Structures (CS 112)**                                                            *Summer 2016, Spring 2017*
RUTGERS UNIVERSITY - COURSE TAUGHT AS A TEACHING ASSISTANT DURING PHD PROGRAM

## Grants

**Student-Wages Grant for 150 student hours**                                             *Fall 2022, Spring 2022*
COLGATE UNIVERSITY

**Faculty-Initiated Summer Research Fellowship in the amount of $10,500**                            *Summer 2022*
COLGATE UNIVERSITY

**Student-Wages Grant for 200 student hours** *Summer 2022*

# Refereed Publications

*\* indicates undergraduate student author*

## JOURNAL

**2021**  **Haldeman G**, Babeş-Vroman M, Tjang A, Nguyen T. *"CSF2: Formative Feedback in Autograding"*, ACM Trans. Comput. Educ. 21, 3, Article 21 (September 2021), 30 pages. https://doi.org/10.1145/3445983

**2015**  **Haldeman G**, Rodero I, Parashar M, Ramos R, Zhang EZ, and Kremer U. *"Exploring energy-performance-quality tradeoffs for scientific workflows with in-situ data analyses"*, Computer Science - Research and Development, May 2015, pp. 207-218. https://doi.org/10.1007/s00450-014-0268-6

## CONFERENCE

**2022**  **Haldeman G**, Prasad G (2022). Exploring the impact of conceptual metaphors on learning about the notional machine. Manuscript in preparation.

**2018**  **Haldeman G**, Tjang A, Babeş-Vroman M, Bartos S\*, Shah J\*, Yucht D\*, Nguyen T. *"Providing meaningful feedback for autograding of programming assignments"*. 49th ACM Technical Symposium on Computer Science Education, SIGCSE 2018, Feb 2018, pp. 278-283. https://doi.org/10.1145/3159450.3159502

**2017**  Babeş-Vroman M, Juniewicz I\*, Lucarelli B\*, Fox N\*, **Haldeman G**, Mehta A\*, Chokshi R\*, Nguyen TD, Tjang A. *Exploring Gender Diversity in CS at a Large Public R1 Research University*, 48th ACM SIGCSE Technical Symposium on Computer Science Education, SIGCSE 2017, March 2017, pp. 51-56.

**2016**  Aktas MF, **Haldeman G**, and Parashar M. *"Scheduling and flexible control of bandwidth and in-transit services for end-to-end application workflows"*. Future Generation Computer Systems 56, March 2016, pp. 284–294.

**2014**  Aktas MF, **Haldeman G** and Parashar M, *"Flexible Scheduling and Control of Bandwidth and In-transit Services for End-to-End Application Workflows"*, Fourth International Workshop on Network-Aware Data Management, New Orleans, LA, 2014, pp. 28-31.

## POSTER

**2022**  Pizer E\*, **Haldeman G** (2022). A code tracing visualization tool for learning how to compute time complexity. Manuscript submitted for publication.

**2022**  Ring M\*, **Haldeman G** (2022). A code tracing visualization tool for illustrating value vs. reference semantics. Manuscript submitted for publication.

**2019**  Boyle JA\*, **Haldeman G**, Tjang A, Babeş-Vroman M, Centeno AP, Nguyen TD. *"Dynamic Recitation: A Student-Focused, Goal-Oriented Recitation Management Platform"*. 50th ACM Technical Symposium on Computer Science Education, SIGCSE 2019, Feb 2019, pp. 1269-1269.

# Undergraduate Research Mentoring

## COLGATE UNIVERSITY

**Kevin Han '25** *Summer 2022 - Present*
DESIGNING AND IMPLEMENTING CODE TRACING VISUALIZATION TOOLS FOR INTRODUCTORY COURSES

**Emma Pizer '23** *Summer 2022*
DESIGNING AND IMPLEMENTING A CODE VISUALIZATION TOOL FOR TEACHING TIME COMPLEXITY

**Mary Ring '23** *Spring 2022 - Summer 2022*
DESIGNING AND IMPLEMENTING A CODE VISUALIZATION TOOL FOR TEACHING MEMORY DIAGRAMS

**Jon Cook '25** *Spring 2022*
DESIGNING CREATIVE ASSIGNMENTS FOR INTRODUCTORY COURSES

## RUTGERS UNIVERSITY

**Joseph Boyle** *2017-2019*
DYNAMIC RECITATION: A STUDENT-FOCUSED, GOAL-ORIENTED RECITATION MANAGEMENT PLATFORM

**Yusup Badiev** *Summer 2019*
IDENTIFYING MISCONCEPTION PATTERNS IN STUDENT CODE

**Liam McCluskey**                                                                   *Summer 2018*

CLEANING UP AND ANONYMIZING STUDENT CODE

**Jay Shah, Danielle Yucht, Stephen Bartos**                                         *Summer 2017*

PROVIDING MEANINGFUL FEEDBACK FOR AUTOGRADING OF PROGRAMMING ASSIGNMENTS

# Leadership

**President of the Computer Science Graduate Student Society**                        *2017-2019*

RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ

# Honors & Awards

**Excellence Award in Computer Science**, RVCC, Branchburg NJ                          *2011*