JEAN SALAC, PHD

Postdoctoral Researcher | Computing Education

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EDUCATION

- 2021 PhD | Computer Science | University of Chicago | National Science Foundation Graduate Research Fellow
- 2020 MS | Computer Science | University of Chicago
- 2017 BS | Computer Science | University of Virginia | High Distinction

□ PROFESSIONAL EXPERIENCE

Jan '22-Present Postdoctoral Researcher, University of Washington

Jul '17-Dec '21 Research Assistant, University of Chicago

- > Applied human factors, statistical, and machine learning techniques to analyze student data.
- > Built a tool for automatic generation of personalized written assessments that incorporates student code, and a tool that scraped features of student code for static analysis.

Jun-Sep 2021 Al/ML Education Research Intern, Apple Inc

- > Explored opportunities to introduce data science practices to K-12 students in Swift Playgrounds
- > Incorporated the latest findings in computing education research into Apple's education strategy

Sep '17-Dec '18 Teaching Assistant, University of Chicago

Jan '16- May '17 Research & Teaching Assistant, University of Virginia

- > Researched problematic demographic categories used in STEM higher education.
- > Investigated the impact of informal computing education on low-income female youth of color.

May-Aug 2016 Computer Science Education Intern, National Science Foundation

- > Analyzed prior NSF CS education and broadening participation initiatives.
- > Researched social innovation best practices to help shape President Obama's CS for All initiative.

HONORS, AWARDS, AND PROMINENT APPOINTMENTS

2021	William Raine	, Harper [Dissertation Av	ward, Unive	sity of C	:hicago's	: Highest	Honor fo	or Grad	uate Stude	nts

2020-Present Graduate Fellow, Computing Research Association - Education

- 2020 EECS Rising Star, Rising Stars Academic Career Workshop for Women
- 2020 Best Reviewed Paper, ACM Conference on International Computing Education Research
- 2020 Online Organizing Committee Member, IEEE RESPECT Conference for Equity and Sustained Participation
- 2019 Graduate Research Fellowship, National Science Foundation
- 2019 Bridge Builder Leadership Award, University of Chicago
- 2019 Computer Science Department Teaching Award, University of Chicago
- 2019 Physical Science Division Teaching Award Nomination, University of Chicago
- 2018 Graduate Student Leadership Award, University of Chicago
- 2017 Rader Award for Undergraduate Research, University of Virginia
- 2016 AAPI Young Leader, White House Initiative for Asian-Americans and Pacific Islanders (WHIAAPI)

■ SELECT SERVICE

2018_Pracant	Computer Science Liai	on University of Chicago	Graduate Recruitment Initiative Team

- 2019-21 Computer Science Representative, University of Chicago Committee on Equity, Diversity, & Inclusion
- 2019-20 Co-Organizer, University of Chicago Women in STEM Symposium
- 2018-19 Co-Chair & Founder, University of Chicago Graduate Women in Computer Science
 - 2018 Co-Organizer, University of Chicago Transcending Boundaries Research Symposium for Scholars of Color

Invited Talks and Workshops

- March 2021 "Scratch Strategies to Engage Diverse Learners", Equity in Action Conference, Computer Science Teachers
- February 2021 "Scratch Strategies to Engage Diverse Learners", Excellence in Teaching Conference, Notre Dame University
 - 2020-21 Workshop on the Next 15 Years of Computing Education Research, National Science Foundation
- November 2020 Accessible Computer Science Education Workshop, Microsoft Research

JEAN SALAC - CV 1



- Jean Salac, Cathy Thomas, Chloe Butler, and Diana Franklin. "Investigating the Role of Cognitive Abilities in Computational Thinking for Young Learners." In *Proceedings of the 2021 ACM Conference on International Computing Education Research*, 2021.
- Jean Salac, Cathy Thomas, Chloe Butler, and Diana Franklin. "Understanding the Link between Computer Science Instruction and Reading & Math Performance." Research Paper in the 27th Annual Conference on Innovation and Technology in Computer Science Education, 2021.
- Jean Salac, Cathy Thomas, Chloe Butler, and Diana Franklin. "Supporting Diverse Learners in K-8 Computational Thinking with TIPP&SEE." Research Paper in the *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education*, 2021.
- 2020 Diana Franklin, Jean Salac, Zachary Crenshaw, Saranya Turimella, Zipporah Klain, Marco Anaya, Cathy Thomas. "Exploring Student Behavior Using the TIPP&SEE Learning Strategy" In Proceedings of the 2020 ACM Conference on International Computing Education Research, 2020. Best Reviewed Paper Award
- Jean Salac and Diana Franklin. "If They Build It, Will They Understand It?: Exploring the Relationship between Student Code and Performance." Research Paper in the 25th Annual Conference on Innovation and Technology in Computer Science Education, 2020.
- 2020 Jean Salac, Cathy Thomas, Bryan Twarek, William Marsland, and Diana Franklin. "Comprehending Code: Understanding the Relationship between Reading and Math Proficiency, and 4th-Grade CS Learning Outcomes." Research Paper in the Proceedings of the 51st ACM Technical Symposium on Computer Science Education, 2020.
- Jean Salac, Cathy Thomas, Chloe Butler, Ashley Sanchez, and Diana Franklin. "TIPP&SEE: A Learning Strategy to Guide Students through Use->Modify Scratch Activities." Research Paper in the *Proceedings of the 51st ACM Technical Symposium on Computer Science Education*, 2020.
- Jean Salac, Qi Jin, Zipporah Klain, Saranya Turimella, Max White, and Diana Franklin. "Patterns in Elementary-Age Student Responses to Personalized & Generic Code Comprehension Questions." Research Paper in the *Proceedings of the 51st ACM Technical Symposium on Computer Science Education*, 2020.
- Diana Franklin, **Jean Salac**, Cathy Thomas, Zené Sekou and Sue Krause. "Eliciting Student Scratch Script Understandings via Scratch Charades." Experience Report in the *Proceedings of the 51st ACM Technical Symposium on Computer Science Education*, 2020.
- Jean Salac, Max White, Ashley Wang, and Diana Franklin. "An Analysis through an Equity Lens of the Implementation of Computer Science in K-8 Classrooms in a Large, Urban School District." Research Paper in the *Proceedings of the 50th ACM Technical Symposium on Computer Science Education*, 2019.
- 2018 David Weintrop, Afsoon Afzal, **Jean Salac**, Patrick Francis, Boyang Li, David C. Shepherd, and Diana Franklin. "Evaluating CoBlox: A comparative study of robotics programming environments for adult novices." In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, 2018. **Best Paper Honorable Mention**
- Daniel S. Katz, Kyle E. Niemeyer, Sandra Gesing, Lorraine Hwang, Wolfgang Bangerth, Simon Hettrick, Ray Idaszak, **Jean Salac**, Neil Chue Hong, Santiago Nunez-Corrales, Alice Allen, R. Stuart Geiger, Jonah Miller, Emily Chen, Anshu Dubey, and Patricia Lago. "Fourth workshop on sustainable software for science: practice and experiences (WSSSPE4)." *Journal of Open Research Software* 6, no. 1 (2018).