Ravi Chugh | Co-CV

Crerar Library 345, University of Chicago, 5730 S Ellis Ave, Chicago, IL 60637

¬Publications 2007 - 2013Radar **SIF** Fine ¬POPL 2010, ESOP 2010, PLDI 2010 ¬ICFP 2011, POPL 2012, ¬TOPLAS 2012 System D DJS ¬ECOOP 2012, OOPSLA 2012 2014 - 2020**IsoLate** ¬POPL 2015, ESOP 2015 Sketch-n-Sketch ¬POPL 2016, ICSE-C 2016, PLDI 2016 Sketch-n-Sketch Sketch-n-Sketch (Deuce) ¬OOPSLA 2017, ICSE 2018 OOPSLA 2018 Sketch-n-Sketch **Hazelnut Live** ¬OOPSLA 2018, POPL 2019 **Predicting Types From Names** ¬IAAI 2019 Sketch-n-Sketch ¬CHI 2019, ¬ECOOP 2019, UIST 2019 ¬POPL 2020, ¬PLDI 2020, ICFP 2020 Smyth **TSE** 2021 -Ivy ¬VIS 2020, CHI 2021 ¬POPL 2021, PLDI 2021 **Hazel Livelits Delta Dictionaries** ¬ CPP 2021 Maniposynth **ECOOP 2022 Creative Coding Students** ¬UIST 2022, CHI 2023 **Prong Code Style Sheets** ¬PLDI 2024, ¬OOPSLA 2024, ¬POPL 2025, OOPSLA 2025 **Creative Coding Experts**

¬Books

Rocks

Programming with Direct Manipulation, Foundations and Trends in PL

¬NOW ~2021

¬Research Presentations (selected)

Shonan, "Bidirectional Transformations: Foundations and Applications"	¬Shonan 2025
Shonan, "Exploratory and Live Software Development"	¬Shonan 2019
IFIP TC2 (Software Theory and Practice) Working Group 2.16 (Language Design)	¬WG2.16 2025 ¬WG2.16 2024 ¬WG2.16 2019 ¬WG2.16 2019 ¬WG2 16 2018

¬Professional Service (selected)

Program Committees Programming Language Design and Implementation ¬PLDI 2026 Onward! Conference ¬ Onward! 2025 Programming Language Design and Implementation ¬PLDI 2025 Object-Oriented Programming Languages, Systems, and Applications ¬OOPSLA 2025 Onward! Conference ¬ Onward! 2024 Symposium on Visual Languages and Human Centric-Computing ¬VL/HCC 2024 Programming Language Design and Implementation ¬PLDI 2024 Symposium on SPLASH-E (roughly "SE/PL + Education") ¬SPLASH-E 2023 Programming Language Design and Implementation ¬PLDI 2023 Haskell Symposium ¬Haskell 2022 Symposium on Functional and Logic Programming ¬FLOPS 2022 European Conference on Object-Oriented Programming ¬ECOOP 2020 International Conference on Functional Programming ¬ICFP 2017 Architectural Support for Programming Languages and Operating Systems ¬ ASPLOS 2016 **Grant Proposal Panels and Reviews** National Science Foundation $\neg 2018$, $\neg 2021$, $\neg 2023$, $\neg 2024$ ¬ Academic Honors **Sloan Foundation** Research Fellowship ¬ *Sloan* 2018, ¬ *Sloan* 2019, ¬ *Sloan* 2020 ¬ Grants **National Science Foundation** 2014 CRII: SHF: Functional Reactive Programming for Functional Reactive Presentations ¬~\$175,000 Google, Faculty Research Award 2015 Prodirect Manipulation for 2D Vector Graphics $\neg \sim $50,000$ Google, Faculty Research Award 2015 Prodirect Manipulation for Designing Web-Based User Interfaces ¬~\$50,000 Google, Faculty Research Award 2019 Sketch-n-Sketch Docs: Bidirectional JavaScript in Google Docs $\neg \sim $50,000$ **National Science Foundation** 2019 SHF: Medium: Integrative Foundations for Live Programming Assistants $\neg \sim $500,000 / \sim $1,200,000$ With Cyrus Omar and Peter-Michael Osera University of Chicago, Women's Board 2021 Enhancing the Programming Environment and Curriculum for CMSC 11111: Creative Coding \neg \$20,000 **National Science Foundation** 2022 SHF: Small: Direct Manipulation Programming Systems for Creative Coding ¬ ~\$600,000 Written with Andrew McNutt

Creative Coding: Making Programming More Accessible to Non-Majors Through Curriculum and Tool Design

University of Chicago, Women's Board

National Science Foundation

SHF: Small: Code Style Sheets

Written with Sam Cohen

2023

2025

 \neg \$18,500

¬~\$600,000