

↑ cs.cmu.edu/~woden
 ▼ woden@cs.cmu.edu

Education

Carnegie Mellon University

2018.9 -

- Ph.D. in Software Engineering

Pittsburgh, PA

- Co-advised by Ken Koedinger and Josh Sunshine

Columbia University

2016.9 - 2018.5

- B.S. in Computer Science, Magna Cum Laude

New York, NY

- Vision, Graphics track

Dickinson College

2013.9 - 2016.5

- B.S. in Computer Science, Summa Cum Laude

Carlisle, PA

- Computer Science Departmental Honors

Publications

How Domain Experts Create Conceptual Diagrams and Implications for Tool Design

Wode Ni*, Dor Ma'ayan*, Katherine Ye, Chinmay Kulkarni, Joshua Sunshine Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI'20), to appear.

Defining Visual Narratives for Mathematics Declaratively

Max Krieger, Wode Ni, and Joshua Sunshine.

Evaluation and Usability of Programming Languages and Tools (PLATEAU 2019), co-located with UIST. [PDF] [slides]

Designing Declarative Language Tutorials: a Guided and Individualized Approach

Anael Kuperwajs Cohen, **Wode Ni**, and Joshua Sunshine.

Evaluation and Usability of Programming Languages and Tools (PLATEAU 2019), co-located with UIST. [PDF] [slides]

Substance and Style: domain-specific languages for mathematical diagrams

Wode Ni*, Katherine Ye*, Joshua Sunshine, Jonathan Aldrich, and Keenan Crane.

Domain-Specific Language Design and Implementation (DSLDI 2017), co-located with SPLASH.

[PDF] [slides] [www] [repo]

Whiteboard Scanning Using Super-Resolution

Wode Ni.

Dickinson College Honors Theses. Paper 221.

[PDF]

Experience	
Carnegie Mellon University, Research Experiences for Undergraduate Research Assistant	2017.5 - 2017.8
Penrose is a system that automatically visualizes mathematics using two domain-spectand Style . Co-advised by Jonathan Aldrich, Keenan Crane, Joshua Sunshine, and Katimplemented the Style language, and extended the Substance language to support funquantified statements.	herine Ye, I designed and
Columbia University, Computer Graphics and User Interfaces Lab Research Assistant Worked with prof. Steven Feiner, on Cyber Affordance Visualization in Augumented Developed a Microsoft Hololens application that visualizes the Columbia campus in AFI	• • •
Asialnfo Software Engineering Intern Worked on server-side web applications and server deployment tools.	2015.6 - 2015.8
Advising	
Max Krieger (CMU, independent research & REUSE) Courtney Miller (New College of Florida, REUSE) Anael Kuperwajs Cohen (Macalester College, REUSE)	СМИ, 2018 - Now СМИ, 2019 СМИ, 2019
Teaching	
Teaching Assistant, Programming Languages and Translators (COMS 4115) Teaching Assistant, Introduction to Java II (COMP 132) Peer Tutor, Data Structures and Problem Solving (COMP 232) Computer Lab Consultant	Columbia, 2017 - 2018 Dickinson, 2016 Dickinson, 2016 Dickinson, 2014 - 2016
Honors & Awards	
Phi Beta Kappa Excellence in Computer Science Award Travel Award PL Mentoring Workshop (PLMW) Tau Beta Pi, Engineering Honor Society Computer Science Departmental Honors Pi Mu Epsilon, Mathematics Honor Society	Dickinson, 2018 Columbia, 2018 SPLASH, 2018 Columbia, 2017 Dickinson, 2016 Dickinson, 2016
Upsilon Pi Epsilon, Computer Science Honor Society	Dickinson, 2016 Dickinson, 2016

Service

Alpha Lambda Delta, First year Honor Society

John Montgomery Scholarship

Research Experiences for Undergraduates in Software Engineering (REUSE) Admission Committee

CMU, 2019

Dickinson, 2013

Dickinson, 2013