

Wode Ni

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Education

Columbia Univeristy

2016.9 - Present
New York, NY

- B.S. in Computer Science
- Major GPA: **4.0**, Cumulative GPA: **3.94**
- Vision, Graphics Track

Dickinson College

2013.9 - 2016.5
Carlisle, PA

- B.S. in Computer Science
- Major GPA: **4.0**, Cumulative GPA: **3.93**
- Computer Science Departmental Honor

Publications

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.

Whiteboard Scanning Using Super-Resolution

Wode Ni.

Dickinson College Honors Theses. Paper 221.

Experience

Carnegie Mellon University, Research Experiences for Undergraduate

2017.5 - 2017.8

Research Assistant

Penrose is a system that automatically visualizes mathematics. The system, comprised of two domain-specific languages: **Substance** and **Style**. Co-advised by Jonathan Aldrich, Keenan Crane, Joshua Sunshine, and Katherine Ye, I designed and implemented the Style language, and extended the Substance language to support functions and logically quantified statements.

Columbia Univeristy, Computer Graphics and User Interfaces Lab

2017.1 - 2017.5

Research Assistant

Worked with prof. Steven Feiner, on **Cyber Affordance Visualization in Augmented Reality** project. Developed a Microsoft Hololens application that visualizes the Columbia campus in AR environment.

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2015.6 - 2015.8

Software Engineering Intern

Worked on server-side web applications and server deployment tools.

Teaching

Teaching Assistant, Programming Languages and Translators (COMS 4115)	<i>Columbia, 2017</i>
Teaching Assistant, Introduction to Java II (COMP 132)	<i>Dickinson, 2016</i>
Peer Tutor, Data Structures and Problem Solving (COMP 232)	<i>Dickinson, 2016</i>
Computer Lab Consultant	<i>Dickinson, 2014 - 2016</i>

Honors & Awards

Tau Beta Pi, Engineering Honor Society	<i>Columbia, 2017</i>
Computer Science Departmental Honor	<i>Dickinson, 2016</i>
Pi Mu Epsilon, Mathematics Honor Society	<i>Dickinson, 2016</i>
Upsilon Pi Epsilon, Computer Science Honor Society	<i>Dickinson, 2016</i>
Alpha Lambda Delta, First year Honor Society	<i>Dickinson, 2013</i>
John Montgomery Scholarship	