

# Wode Ni

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## Education

### Columbia University

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 Honors

## 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 using 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 University, 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.

### AsialInfo

2015.6 - 2015.8

Software Engineering Intern

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

## Teaching .....

Teaching Assistant, <b>Programming Languages and Translators</b> (COMS 4115)	<i>Columbia, 2017</i>
Teaching Assistant, <b>Introduction to Java II</b> (COMP 132)	<i>Dickinson, 2016</i>
Peer Tutor, <b>Data Structures and Problem Solving</b> (COMP 232)	<i>Dickinson, 2015</i>
Computer Lab Consultant	<i>Dickinson, 2014 - 2016</i>

## Honors & Awards .....

Tau Beta Pi, Engineering Honor Society	<i>Columbia, 2017</i>
Computer Science Departmental Honors	<i>Dickinson, 2016</i>
Pi Mu Epsilon, Mathematics Honor Society	<i>Dickinson, 2016</i>
Upsilon Pi Epsilon, Computer Science Honor Society	<i>Dickinson, 2015</i>
Alpha Lambda Delta, Honor Society for First-Year Students	<i>Dickinson, 2013</i>
John Montgomery Scholarship	<i>Dickinson, 2013</i>