



**Julie Alano**  
Hamilton Southeastern High School  
Fishers, IN  
Computer Science  
Grades 9-12

# CS4EDU

## Computer science for education

**Nancy Lasley**  
W H Harrison High School  
West Lafayette, IN  
Computer Science  
Grades 9-12



### Education

**Indiana State University**  
Terre Haute, IN  
BS Math Education with minor in C S 1998

**Indiana University**  
Indianapolis, IN  
MS Educational Technology 2008

### Project description

Our project has three objectives:

- have AP Computer Science considered part of the mathematics curriculum
- improve teacher preparation in computer science
- develop and offer a computer science methods course as part of a computer science endorsement for education majors at Purdue University

The focus of the coursework is no longer what programming language is used; instead, the focus is on topics that allow students freedom to use the latest environments for developing programs.

The incorporation of *Scratch* into the curriculum has proved to be successful. Activities completed using *Scratch* helped the students better understand projects in other programming languages such as *Visual Basic*, *C++*, and *Python*.

### Education

**Indiana University**  
Bloomington, IN  
B.S. Secondary Math Education 1976

**Indiana University**  
Bloomington, IN  
MS Secondary Math Education 1981

### Highlights

The highlight from my experience was the addition of *Scratch* to my curriculum. This programming language really engaged all of my students and helped them to better understand computer science concepts

### Impact/results

Not only has my experience helped my students, but I was also able to share my experience with the computer programming teacher at the other high school in my district. We have collaborated before since he only teaches the first year of programming and his students must travel to my high school to take AP Computer Science with me. But, we really discussed and revamped our curriculum at the beginning of this school year and plan to meet each year to update our curriculum.



**CPATH Project PI**  
Dr. Christoph Hoffmann  
Purdue University

### Conferences

**International Society for Technology in Education (ISTE)**  
Philadelphia, PA • June 2011

**Computer Science and Information Technology Symposium (CSTA)**  
New York, NY • July 2011