

Computer Science

at Pacific Union College

Faculty

Lloyd Best, M.A., chair
Bruce Ivey, Ed.D.
Robert Ordonez, M.S.

Degrees & Programs

Computer Science, B.A.
Computer Science, B.S.

apply.puc.edu

enroll@puc.edu

1.800.862.7080

A Conversation with Robert Ordonez, M.S.

Assistant Professor of Computer Science

Can I learn how to program games at PUC?

Yes! Creating simple games is part of even our basic programming courses. Throughout the other classes, we explore all the programming concepts you need to tackle more advanced game programming. You can take "Computer Graphics" and "Programming for the Internet" as electives.

Why should I take computer science, and why at PUC?

First, You should study CS if you enjoy analyzing a problem to find the pattern that will lead to a solution, and bringing that solution to life using computers. Computer science isn't just about using existing solutions — it's also about creating new solutions to new problems or to age-old dilemmas. And you should study CS at PUC because you'll get a focused education in the fundamental concepts of computing, with lots of hands-on experience and one-on-one help from dedicated faculty. Also, our proximity to Silicon Valley provides a rich variety of internship and job possibilities that is not available anywhere else in the world.

How does spirituality fit into the CS field?

In a field whose clients range from defense contractors to schools and hospitals, a strong ethical and moral grounding is absolutely imperative. From software piracy to phishing, the world of technology is full of potential for abuse and misuse. And as we explore artificial life and what it means for a machine to be intelligent (and perhaps have a soul), we push the boundaries of our comfort zone as Christians. We view these as opportunities for our faith to grow, so we work hard to foster a healthy dialogue about these issues.



Mac or PC?

BOTH! Flexibility is important in CS, so we encourage our students to use the best tool for the job — be it a Mac running Windows, or a multicore Intel machine running Linux. We have all of these machines in our labs, and our students set them up, use them, troubleshoot them, and repair them.

**Continue the conversation by writing to
Robert Ordonez at majors@puc.edu.**

**To read about a different major, visit
puc.edu/majorscards.**

Computer Science at Pacific Union College

PUC Alumni:

Real-life Careers

- Our graduates work for companies such as Google, Microsoft, Cisco, and others in Silicon Valley
- Our students have interned at the White House, Cisco, Microsoft, R2 Technology, and In-Q-Tel

The CS Life-Outside-of-Class

CS majors enjoy plenty of extracurricular activities, from weekly game nights in the lab (which also features a fridge and beanbag chair) to meals and devotionals at professors' houses.

They also attend professional conferences, and occasional big outings such as a trip to Google's campus in Mountain View, where we found out what Google looks for in employees and learned from three PUC grads who work there.

The future looks good for CS majors as well. In good economic times and bad, well-educated computer scientists are in demand. Even businesses whose focus is something other than computer software or hardware need computer specialists. And our program is an excellent background for graduate studies.



Academically Outstanding. Spiritually Authentic.



Enrollment Services
One Angwin Avenue
Angwin, CA 94508

Integer-Knapsack (X,Y,e)

/ ⇒ Initialize variables

S Make // array (length[Y],e)

for a ← 0 to length[X]

do S[a,0] ← 0

10 if b - x_a < 0

for b ← 0 to e

do S[a,1] ← 0

12 else S[a,b] ← max(S[a-1,b], S[a-1,b-x_a]+w_a)