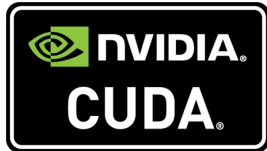# ECS 158, Programming on Parallel Machines

Norm Matloff

Fall 2013

GPU programming:
"A supercomputer on your desk!"

For multicore machines

For clouds

For clusters

- apps everywhere: Big Data, bioinformatics, database, text mining, graphics, finance, Pringles (huh?), etc.

- ECS 150 has been officially DROPPED as a prerequisite (now just recommended)

- group work: 4-5 programming assignments, 1 group quiz, term paper (serves as final)

- exams: weekly quizzes, including one group quiz; no midterms or final

- sample workload: `http://heather.cs.ucdavis.edu/~matloff/158.html`

- OpenMP, CUDA, Hadoop, MPI are cross-platform, industry standards

- open-source textbook