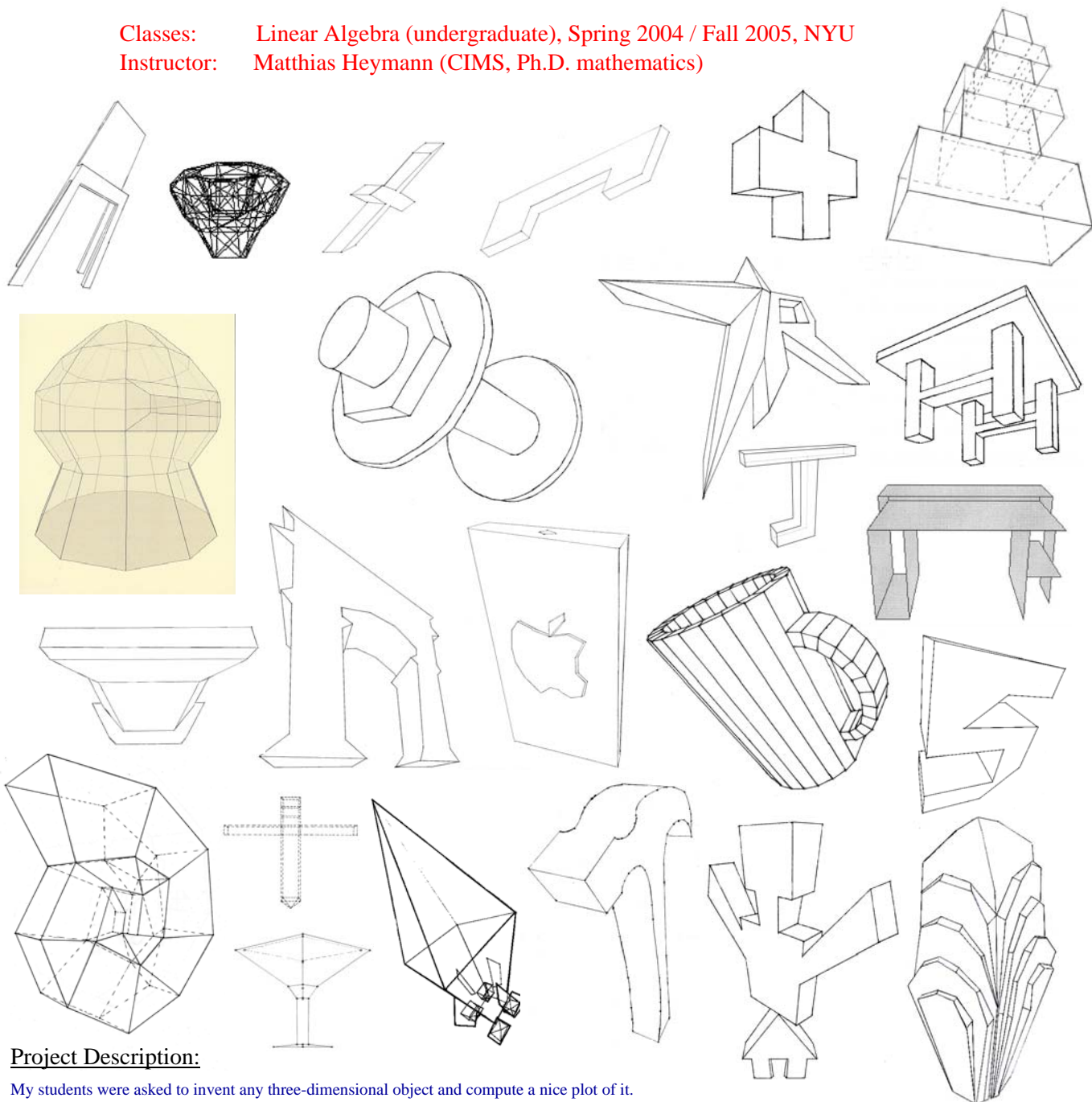


Semester Project: 3D-Pictures

Classes: Linear Algebra (undergraduate), Spring 2004 / Fall 2005, NYU
Instructor: Matthias Heymann (CIMS, Ph.D. mathematics)



Project Description:

My students were asked to invent any three-dimensional object and compute a nice plot of it.

To do so, they had to enter the three-dimensional coordinates of the corner points into a big data matrix, perform operations such as turns, stretches, shifts or shear transformations via matrix multiplications, and finally project the points to a two-dimensional plane (the paper).

For the computations, my students used the open-source programming language "R" (a standard language for statistical data analysis), the final plots were often done by hand.

A detailed instruction pdf file can be found on my course website: www.bioinformatics.nyu.edu/~heyman/linearalgebra2005

The Artists:

Aaron Eastburn - 'Cup'
Akash Gupta - 'Dumbbell'
Ali Khawaja - 'Chrysler Building'
Andrew Goon - 'Chambered Nautilus'
Ben Keyes - 'Table'
Chris Dolan - 'Flatiron Building'
David Josset - 'Sheared Chair'
Hannah Shamailova - 'Dancing Robot'

Horace Lai - 'Glass'
Jane Juan Chen - 'Web cam'
Jessica Bardy - 'Rocket'
Jithin Yohannan - 'J'
Mariah Williams - 'X'
Michael Goldberg - 'Arch'
Mrunal Patel - 'Sword'
Raghu Kanuma - 'R Logo'

Rudy Cruz - 'Diamond'
Samantha Baras - 'Hammer'
Sari Kure - 'Cross'
Shelley Zmiri - 'iPod'
Steve Polyakov - 'S'
Tae-Won Kim - 'NYU Arch'
Vadim Barkalov - 'Desk'
Valerie Pershad - 'Blocks'