

ASEN/CSCI 5264

Decision Making under Uncertainty

Instructor: Zachary Sunberg

TFs: Tyler Becker and Xavier O'keefe

3 Example Problems

A/C Collision Avoidance

Sense-Plan-Act Loop

Four Big Challenges in DMU

Four Types of Uncertainty in DMU

Break

Break

- Engineering is a team sport!

Break

- Engineering is a team sport!
- Groups of 2-4:
 - Name
 - Department
 - Sequential decision making problem

Problems in DMU

Limited	Powerful
Finite, discrete spaces	Continuous spaces
Specific parameterized distribution classes (e.g. Gaussian)	Arbitrary distributions
Approximate algorithms	Fast, globally optimal algorithms

Problems in DMU

Limited	Powerful
Finite, discrete spaces	Continuous spaces
Specific parameterized distribution classes (e.g. Gaussian)	Arbitrary distributions
Approximate algorithms	Fast, globally optimal algorithms

**Usually, you only get to pick
two in this column!**

Course Materials/Logistics

Course Materials/Logistics

- Syllabus

Course Materials/Logistics

- Syllabus
- Github

Course Materials/Logistics

- Syllabus
- Github
- Book

Course Materials/Logistics

- Syllabus
- Github
- Book
- Edstem

Course Materials/Logistics

- Syllabus
- Github
- Book
- Edstem
- Homework

Course Materials/Logistics

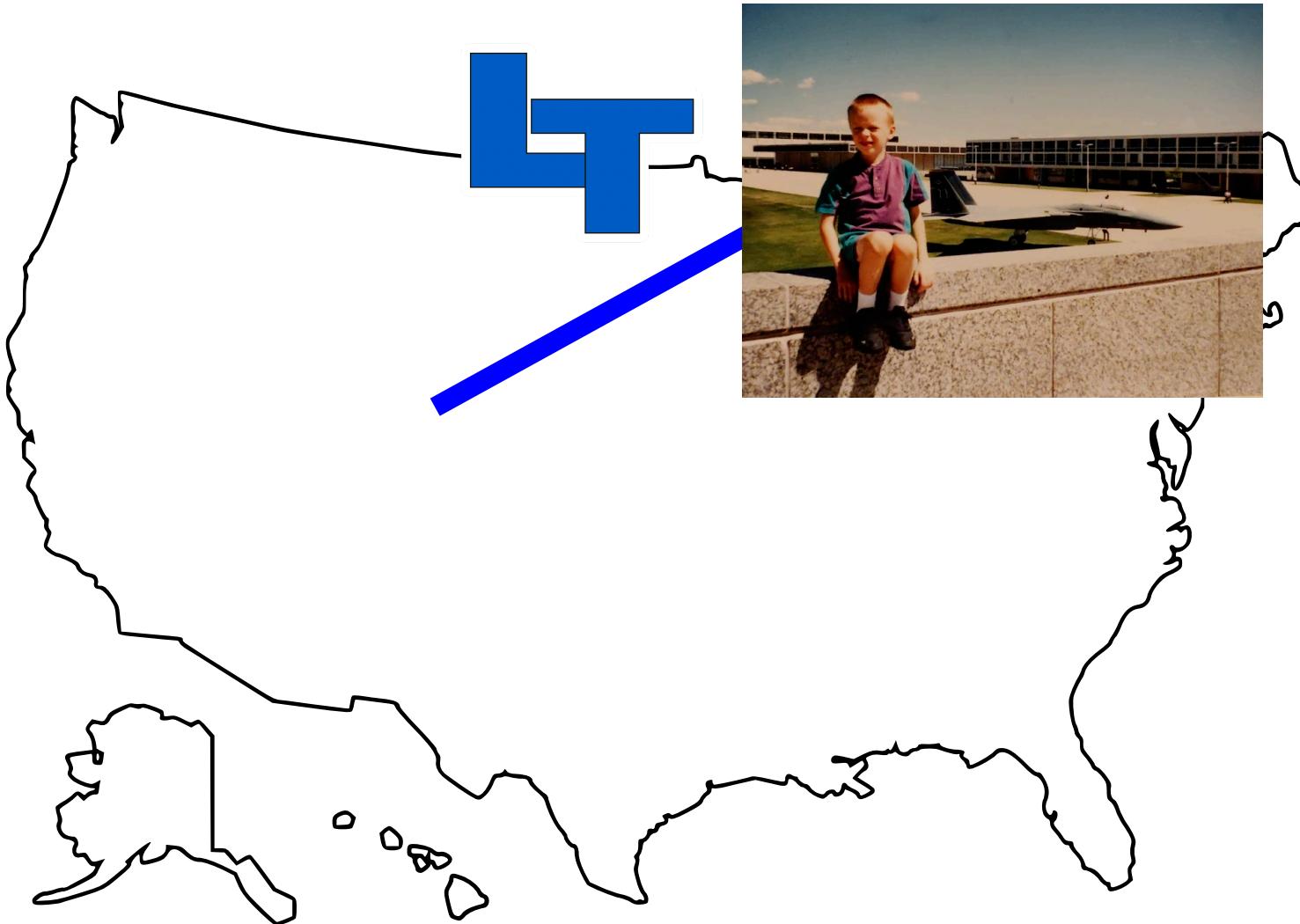
- Syllabus
- Github
- Book
- Edstem
- Homework
- Julia

A bit about me

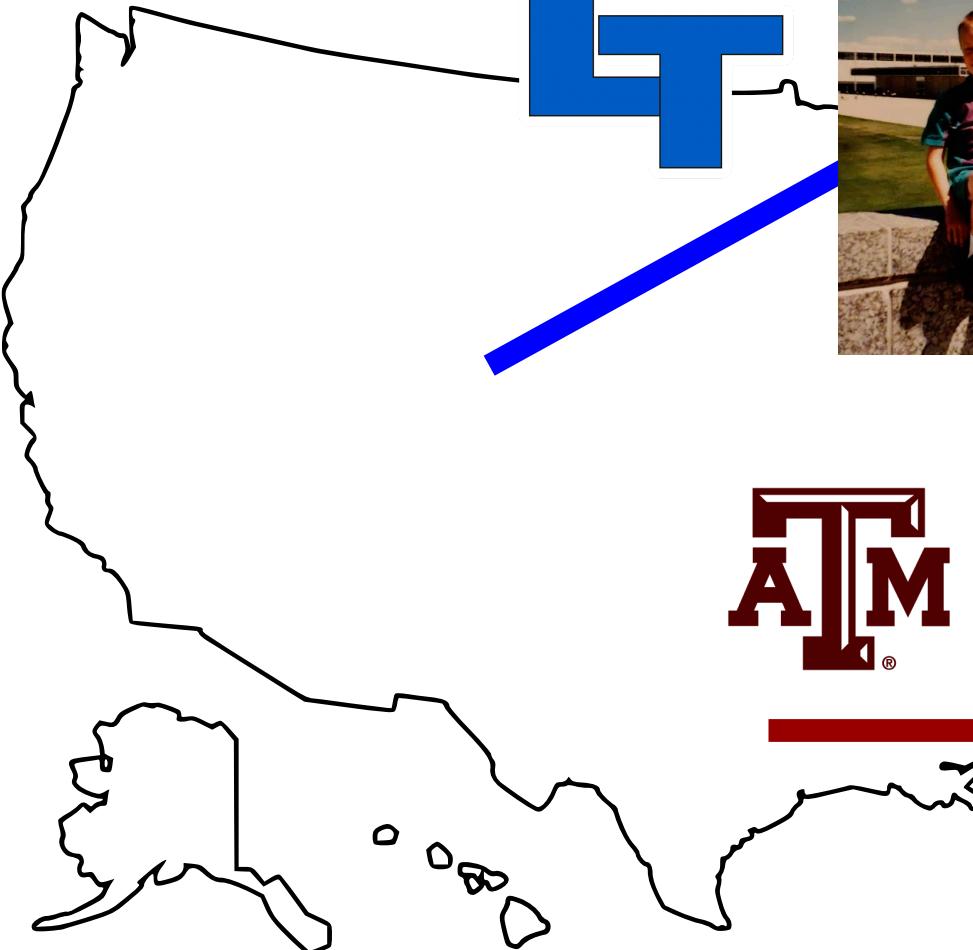
A bit about me



A bit about me



A bit about me



A bit about me



A bit about me



cu-adcl.org

A bit about me



A bit about me

