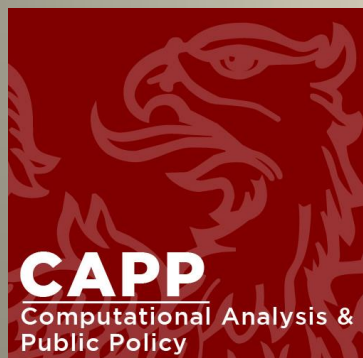


A Master of Science Degree in Computational Analysis and Public Policy

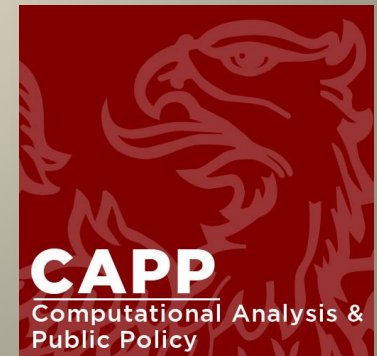
Robert Goerge, Ph.D.
Executive Director, MSCAPP
Harris School of Public Policy Studies
University of Chicago



APPAM Spring Conference
April 12, 2014
Washington, DC

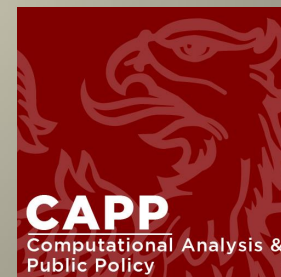
Need for the program

- Demand for individuals with information technology skills in the public sector
 - CIO, CDO, CTO
 - Analysts/Researchers
 - Consultants on IT Projects
 - At the municipal, state and federal level
- Many programs teaching data science
- None that we know of the combine substantive and technical in a two-year degree



Collaboration

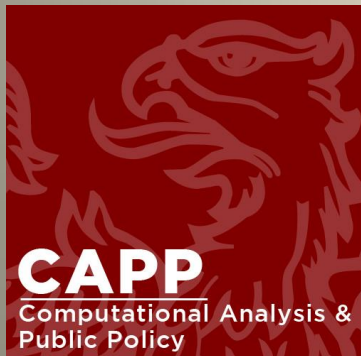
- Approved by University Senate in Spring 2013
- Joint program with the Harris School of Public Policy Studies and the Department of Computer Science (Physical Sciences Division)
- Harris provides administrative support
- Includes participation from the Computation Institute, particularly Urban Center for Computation and Data, which brings together social scientists and computer scientists to conduct research
- Chris Berry, Harris faculty lead and Anne Rogers, CS faculty lead



	Fall	Winter	Spring
Year 1	Statistics I [H]	Statistics II	Introduction to Data Analytics [CS] (new)
	Computer Science with Applications 1 [CS]	Computer Science with Applications 2 [CS]	Computer Science with Applications 3 [CS]
	Microeconomics I [H]	Microeconomics II [H]	Integrative Seminar
Summer	Internship	Internship	Internship
Year 2	Political Economy for Public Policy [H]	Decisions and Organizations [H]	Elective
	Databases [CS}	Elective	Elective
	Curricular path course	Curricular path course	Curricular path course

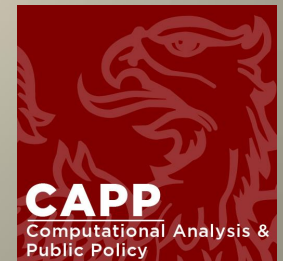
Computer Science

- Programming sequence, the CAPP students will have their own Ph.D. student-TA to address their needs
- An assessment will be made at the beginning of the school year, in case student has extensive programming experience



Specialization

- In the second year, we will encourage students to concentrate in a substantive area of public policy or a methodological area.
 - Energy, Education, Child and Family Policy ...
 - OR
 - Survey methods, Advanced Data Analytics, Information Policy (Privacy)



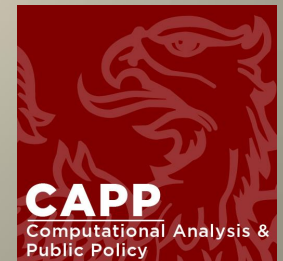
Internship

- One key to integrating learning from the statistics/econometrics and the data analytics classes
- Ability to experience practical challenges
- Range of potential placements:
 - Government (city, county, state, federal)
 - Non-profits
 - Private firms working with public sector



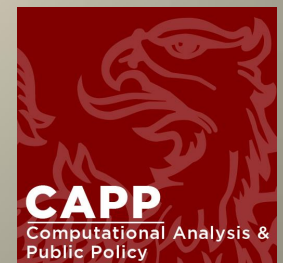
Seminar

- Address the issues of the different cultures/approaches/context/jargon in social sciences and computer science
- Speakers from policy settings
- Faculty utilizing computational methods to address public policy issues



Admissions

- Initially had a target of 5-10 students
- Received 100+ applications and still receiving them
- Accepted 25 students
- High yield



More information

- <http://capp.sites.uchicago.edu/>
- Robert Goerge, Executive Director
bobg@uchicago.edu

