2017 Advisory Board
Gianforte School of Computing

February 17, 2017
Gianforte Naming Gift

- $6M over five years
- $200K of new annual operating funds!
- Note: Our state operating allocation in FY 2017 is ~$1.6M.
AY 2017 Initiatives

- **Curriculum**
  - B.A. (new intro and capstone course)
  - Teaching Minor
- **Office and Conference Room Remodel**
- **Faculty Expansion**
  - One tenure track
  - One non-tenure track
Faculty and Staff Snapshot

- 10 tenure-track faculty
- 2 non-tenure track faculty
- 1 administrative associate
- 1 system administrator
- 1 demand coordinator / advisor
- 1 part-time accountant
New Faculty

- Indika Kahanda (Fall 2016)
- Ph.D. from Colorado State University
- Research: Bioinformatics and computational biology, machine learning, data mining, biomedical natural language
New Faculty

• David Millman (Spring 2017)
• Ph.D. from UNC
• Research: Computational geometry, scientific computing, parallel computing
New Staff

• Suzie Hockel (January 2016)
• Administrative Associate
Faculty and Staff Kudos

- Professor Emeritus: Rocky
- Undergraduate Mentoring: Clem
- Outstanding Advisor: Sharlyn
- Award for Excellence: Mike
- Meritorious Technology: John S.
New Research Funding

- NSF REU $288K – Clem, Brendan
- NSF $156K – Upulee
- Army Corps of Engineers $105K – Clem
- US Fish and Wildlife Service $138K – Mike
- NSF CS10K $1,000K – Qing
- NSF EAGER $180K – Qing and Binhai
- NSF $550K – Clem
- NSF $153K – Brittany
- NSF $30K - Brittany
- TechLink $146K – Clem and John S.
- Zoot Enterprises $50K – Clem and Upulee
Curriculum Initiatives
Computer Science B.A.

• Motivation
  – CS skills are relevant everywhere
  – Serve non-traditional CS students
  – Industry shortage of computer scientists

• Status: Curriculum and Programs Committee
Computer Science B.A.

- 15-credit Humanities Core
  - Modern Language 101 and 102
  - 1 upper division “humanities” course
  - 2 more “humanities” courses
Computer Science B.A.

• Concentration
  – A minor
  – The equivalent of a minor
  – A second major

• Note: Concentrations that require engineering calculus are not allowed
Computer Science B.A.

- Math and Science Requirements
  - Statistics I
  - Business Calculus I (or higher)
  - Statistics II or Business Calculus II
  - Discrete Structures
  - One “science” core course
Computer Science B.A.

- **Capstone**
  - ESOF 423, Software Engineering Applications
  - Teams of four build a semester-long prototype
  - Concentration must be integrated
  - Final report must include reflection on contribution of concentration, as well as possible careers and software ideas
  - Concentration advisor invited to final presentation
Computer Science B.A.

- Advising
  - Faculty advisors will specialize by college
  - Annual survey
Teaching Minor (25 credits)

- CSCI 107, Joy + Beauty of Computing
- CSCI 127, Joy + Beauty of Data
- CSCI 132, Basic Data Structures + Algorithms
- CSCI 232, Data Structures + Algorithms
- CS electives: 3 credits
- EDU 370: Integrating Technology
- EDU 497: Science or Math Methods
- EDU 498: Internship
Joy and Beauty of Data

- Spring 2017
- Bozeman High School
- John Paxton, Kerri Cobb

- Teacher Training: July 17-21, 2017
- MSU Launch: Fall 2017 as CSCI 127
2016-17 Student Trips

• Motivation
  – Build community
  – Attract, retain and graduate more students
2016 ACM Tech Road Trip

- Seattle in March, 11 CS Majors
- Microsoft, Tune, General UI, Google
- Security Innovation, Amazon, Facebook
- Living Computer Museums (MoPOP, too)
2016 Grace Hopper

- Houston in October
- 18 female students + 1 male student
- Bronze Level Sponsor
2016 oSTEM

- Denver in November
- 5 CS students

[Image of a group of people in Denver, November 2016]
2017 Study Abroad

- Technical University Vienna (TU Wien)
- 12 MSU students + TU Wien students
- May 10 – June 25