
SCHOOL OF COMPUTER, MATHEMATICAL AND NATURAL SCIENCES

MORGAN STATE UNIVERSITY

HONGTAO YU
DEAN AND PROFESSOR

One Family, Growing Scientists

Five Departments:

- Biology
- Chemistry
- Computer Science
- Mathematics
- Physics

Nine BS Programs:

- Actuarial Science
- Biology
- Chemistry
- Cloud Computing
- Computer Science
- Engineering Physics
- Mathematics
- Medical Laboratory Science
- Physics

Four Master's Programs

- Advanced Computing
- Bioinformatics
- Mathematics
- Integrated Science

Two Doctoral Programs:

- Bioenvironmental Science
- Industrial & Computational Mathematics

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FRESHMAN RETENTION

Freshman retention rate increased from 70% to 80%

- **Summer programs**
- **Designated Freshman Advisors**
- **Freshman Peer-Mentoring (PeerBear Program)**
- **Synchronized Freshman Classes: Math – Biol – Chem - Phys**
- **Supplemental Instruction (NIH/NSF grants)**
- **Revision of Freshman Courses**
- **Tutoring Lab**
- **Enhanced Honor's Courses**
- **Undergraduate Research/Internships**

GROWING THE GRADUATE PROGRAMS

Nearly tripling PhD program enrollment (2016-2021)

- Redefining graduate program “Directors” – recruiting, managing, advising (release time given, evaluation)
- Removal of “hurdles” for admission process & progression
- Securing funding for graduate assistants from grants & university funds
- Revision of existing programs to meet current needs
- Graduate advisor training
- Graduate Student “Handbook”
- Offering a new degree program in Advanced Computing

FOSTERING A STRONG FACULTY RESEARCH PROGRAM

Quadrupling Research Funding

- Recruit “research-ready” faculty (10 out of 11 new faculty got funding)
- Offering grant writing workshops and one-on-one tutelage
- Bring faculty to federal agencies and bring FEDs to Morgan
- Form nine “Research Clusters” and go after major/center funding
- Establish “Associate Dean” for Research
- Restructure the School’s grant management team
- Develop incentive and rewards for faculty
 - Faculty annual evaluation, Promotion & Tenure, Awards, etc.
- Develop Core Research Facilities



Thank
YOU!