GRADUATE STUDIES

June 2, 2017

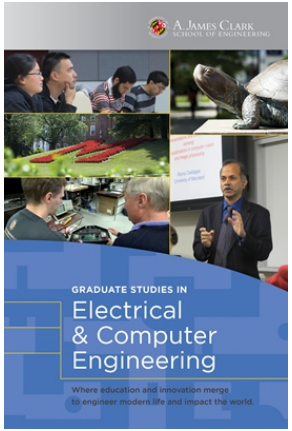
DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

Improving Quality and Quantity of Applicants

Actions Taken

- **Revamped Financial Offers**
- **Adjusted Priority Deadline from Dec. 1 to Dec. 16**
- **Waived Ph.D. Application Fee**
- **Increased Recruitment Efforts**
  - New brochure
  - Virtual emphasis



New ECE Brochure

DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

Open House – Oct. 2016

Hosted at and live streamed via the Seigel Learning Center

- 18 Local RSVPs
- 157 Virtual RSVPs
- 400+ Clicks

Professionally Produced & Recorded:

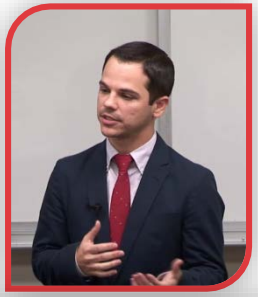
go.umd.edu/ece-open-house16

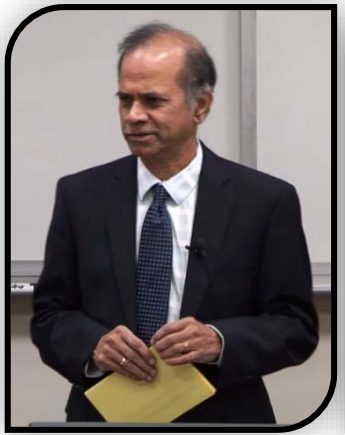
DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

Open House – Oct 2016

Open House Agenda

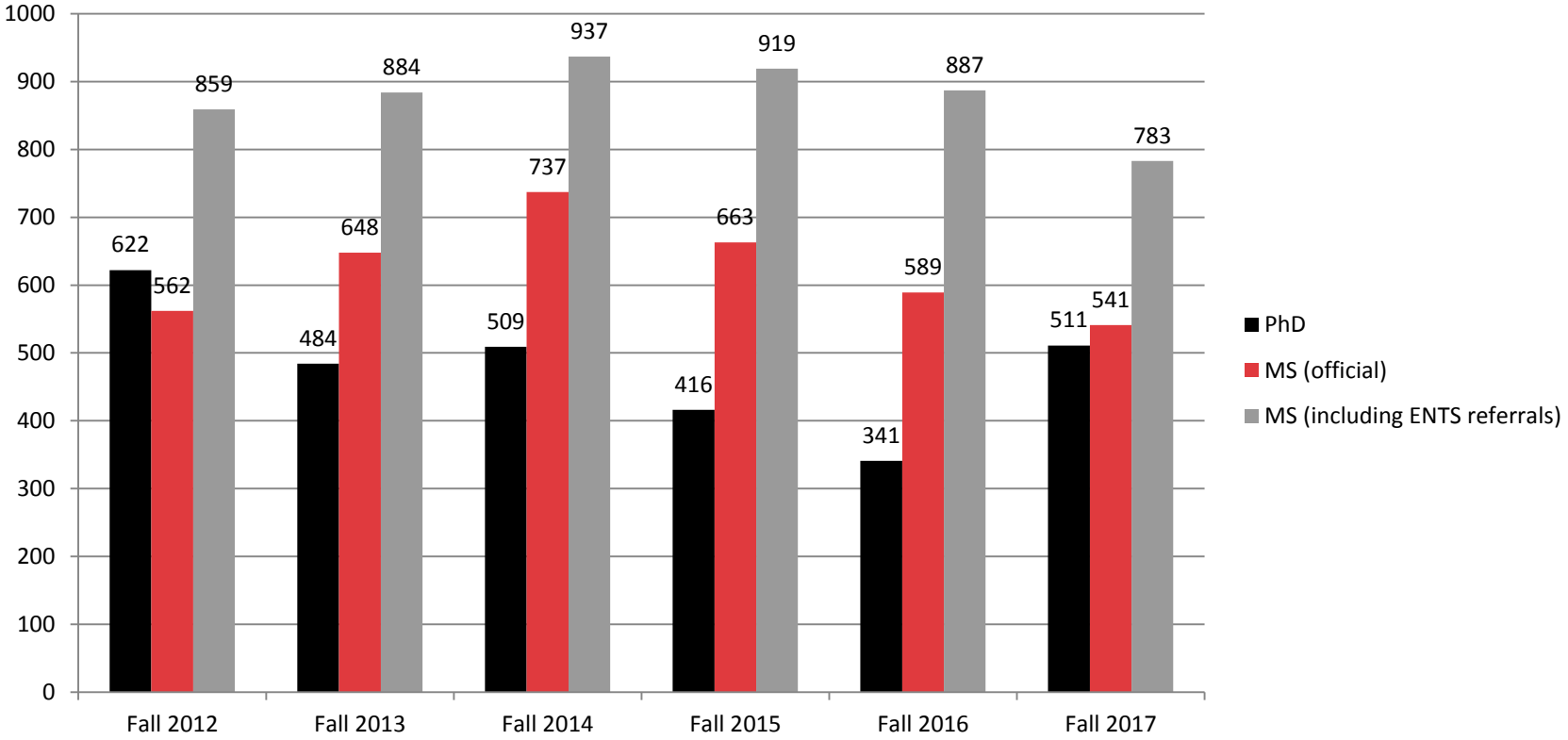
- Welcome & Dept. Overview
- ECE Faculty Panel
- ECE Student Panel
- Submitting a Competitive Application Presentation





DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

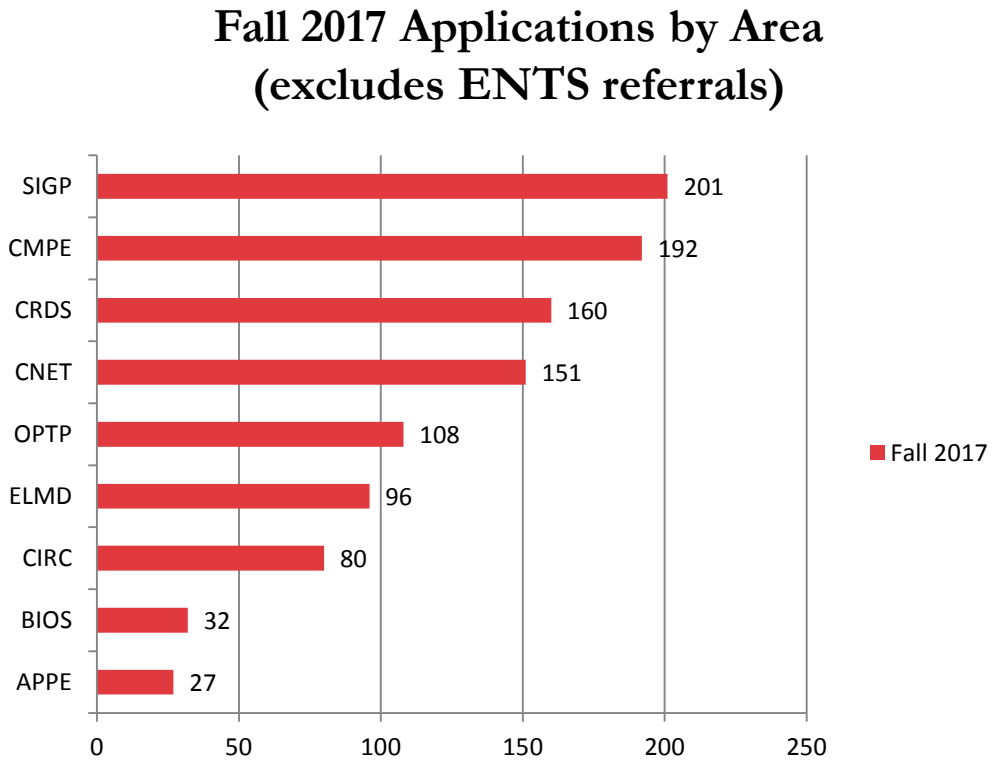
MS, PhD Applications



DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

Fall 2017 Applications

- **PhD Applications: 511**
  - **49.9% increase from 2016**
- **MS Applications: 783**
  - **242 referred to ENTS**



Continue Multi-Year Financial Offers

	GSR
Year 1	Fellow/Half-GRA
Year 2	GRA
Year 3	GRA or GTA
Year 4	GRA or GTA

	GST
Year 1	Fellow/Half-GTA
Year 2	GRA or GTA
Year 3	GRA or GTA

	GTA
Year 1	GTA
Year 2	GRA or GTA

- Fellowship offer with matching support **(GSR)** can be a **three-year** guaranteed offer or **four-year** offer if advisor commits year two GRA support.
- Fellowship offer without matching support **(GST)** is a **three-year** guaranteed offer.
- Teaching assistantship **(GTA)** is a **two-year** guaranteed offer.

Financial Offers

Total PhD Offers

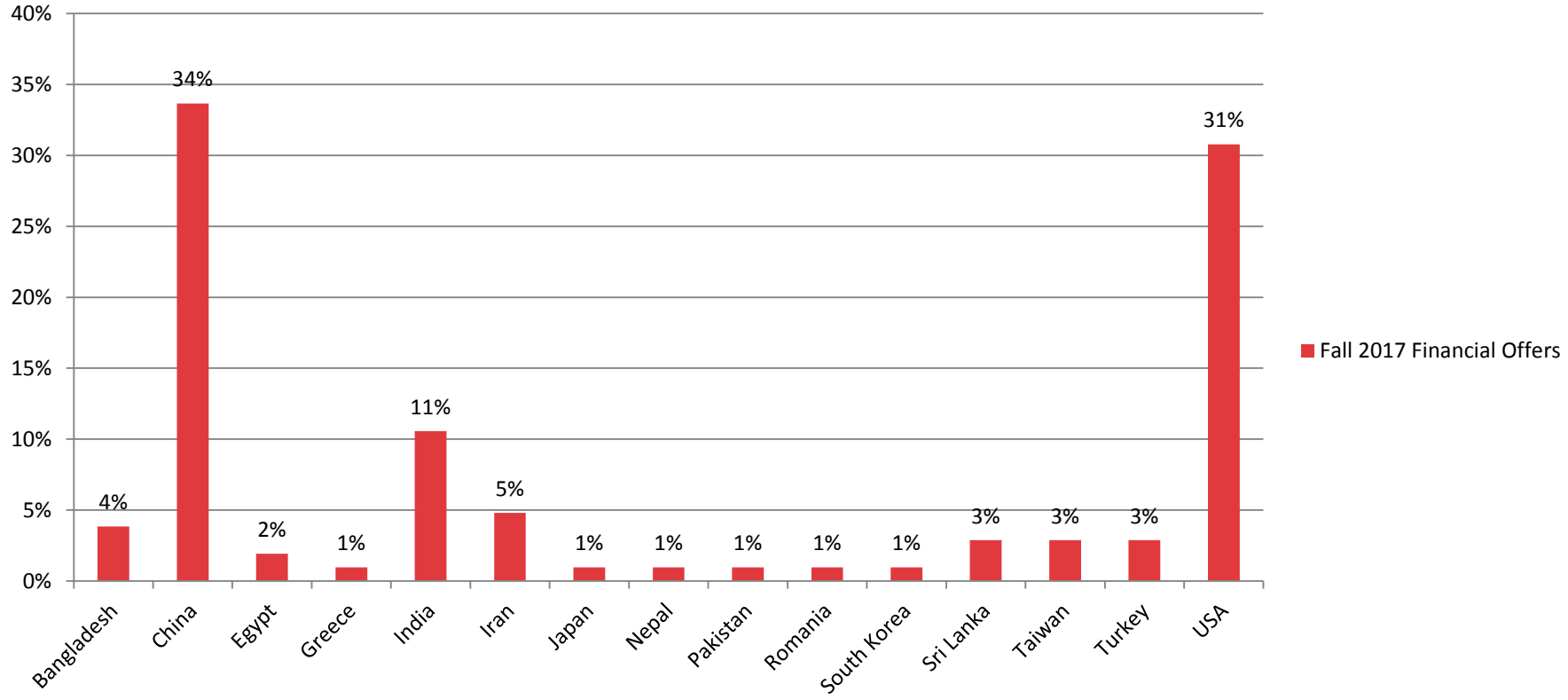
	1508	1608	1708
Offers Made	112	91	104
Accepted	37	35	34
Yield	33%	38%	33%

Offers with Matching GRA Support

	1508	1608	1708
Offers Made	37	30	30
Accepted	16	13	9
Yield	43%	43%	30%

Country

Fall 2017 Financial Offers



DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

2017 Visit Day

A. JAMES CLARK
SCHOOL OF ENGINEERING

THE DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

10 In-person Participants

39 Live Virtual Views

- Chongxi Bao
  - *Hardware Attacks & Mitigation Techniques*
- Andrew Berkovich
  - *Biologically Inspired Low-Light Vision Systems for Micro-Air Vehicle Applications*
- Vinay Boda
  - *Sampling Rate Distortion*
- Vikram Orre
  - *Optical Time Lens & Implementation*
- Vidya Raju
  - *Control, Robotics & Dynamical Systems*

Streamed Live!

Graduate Visit Day Agenda

Thursday, March 30

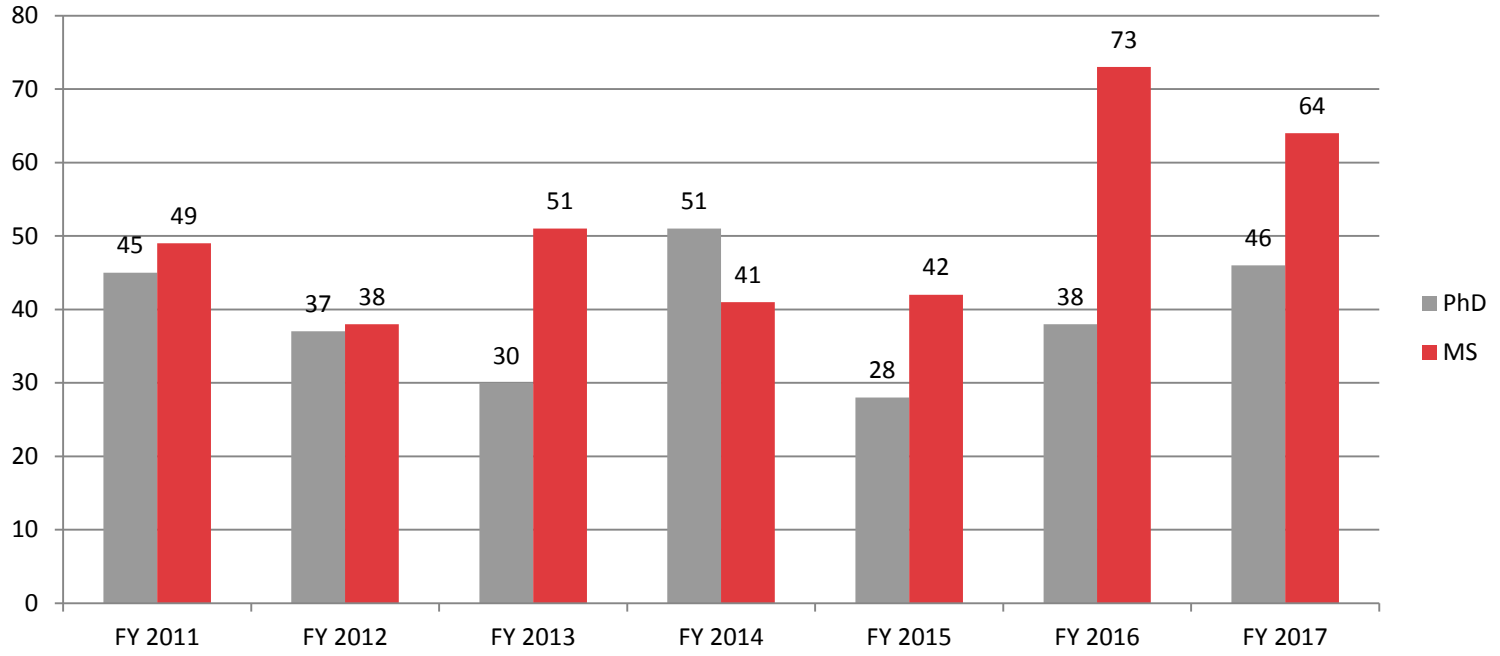
- Welcome
- Student Research Presentations
- Campus Tour
- Faculty Lunch & Poster Session
- Faculty Meetings
- ECEGSA Session
- Graduate Studies Office Q&A
- Lab Tours
- Dinner

Friday, March 31

- Breakfast
- Washington, DC Tour

DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

Degrees Granted



DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

ECE Distinguished Dissertation Award

Abbas Kazemipour
Nonlinear Dynamical Models for Compressive Projection Microscopy: Theory and Practice
Co-advised by Profs. Wu and Babadi

V. Praneeth Boda
Sampling Rate Distortion
Advised by Prof. Narayan

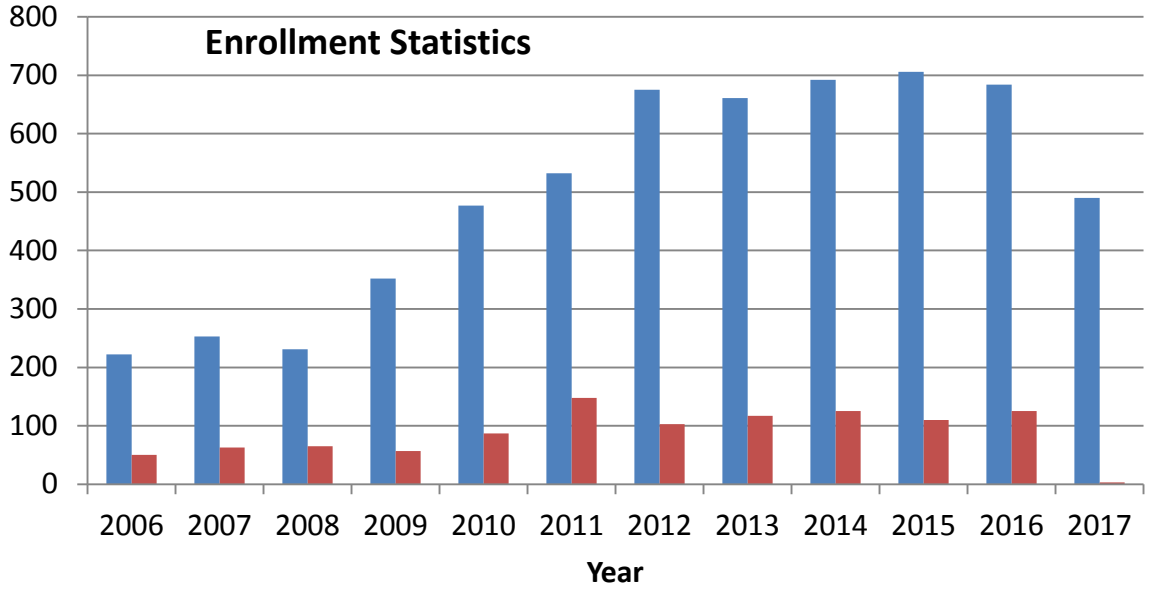
Chongxi Bao
Hardware Attacks and Mitigation Techniques
Advised by Prof. Srivastava

Ahmed Arafa
Energy Harvesting Communication Networks with System Costs
Advised by Prof. Ulukus

Andrew Berkovich
Biologically Inspired Low-Light CMOS Vision Systems
Advised by Prof. Abshire

DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

MS in Telecommunications



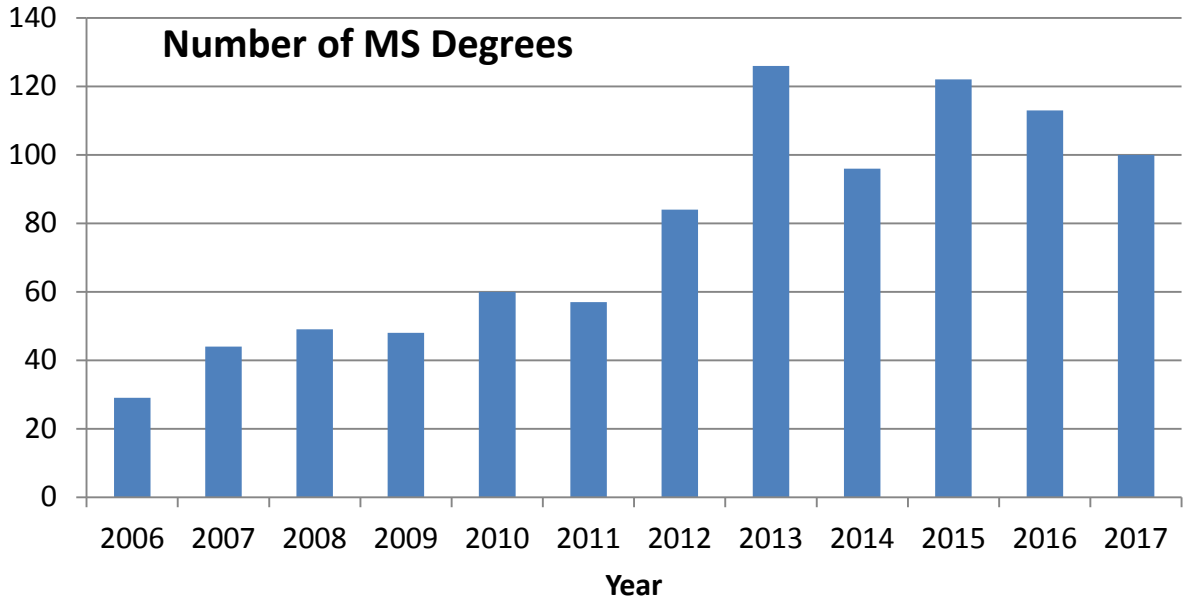
Fall 2017:
231 direct applicants.

Fall 2016:
344 direct applicants.

Note: Fall 2017 enrollment data is not available yet.

DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

Degrees Awarded



Note: Fall 2017 graduation data is not available yet.

Recent graduation stats:

Spring 2016:
- **98** MS degrees awarded

Summer 2016:
- **4** MS degrees awarded

Fall 2016:
- **11** MS degrees awarded

Spring 2017:
- **100** MS degrees awarded

New Initiatives

Elective/special topics courses

- Machine Learning
- Embedded Systems
- Network Protocol Testing Lab
- Software Defined Networking

Certificate Programs

Approval process:

- Approved by UMD Board of Regents:
  - Computer Networking
- Approved by UMD Senate PCC:
  - Computing Systems
  - Networking Software Development
  - Wireless Communications