



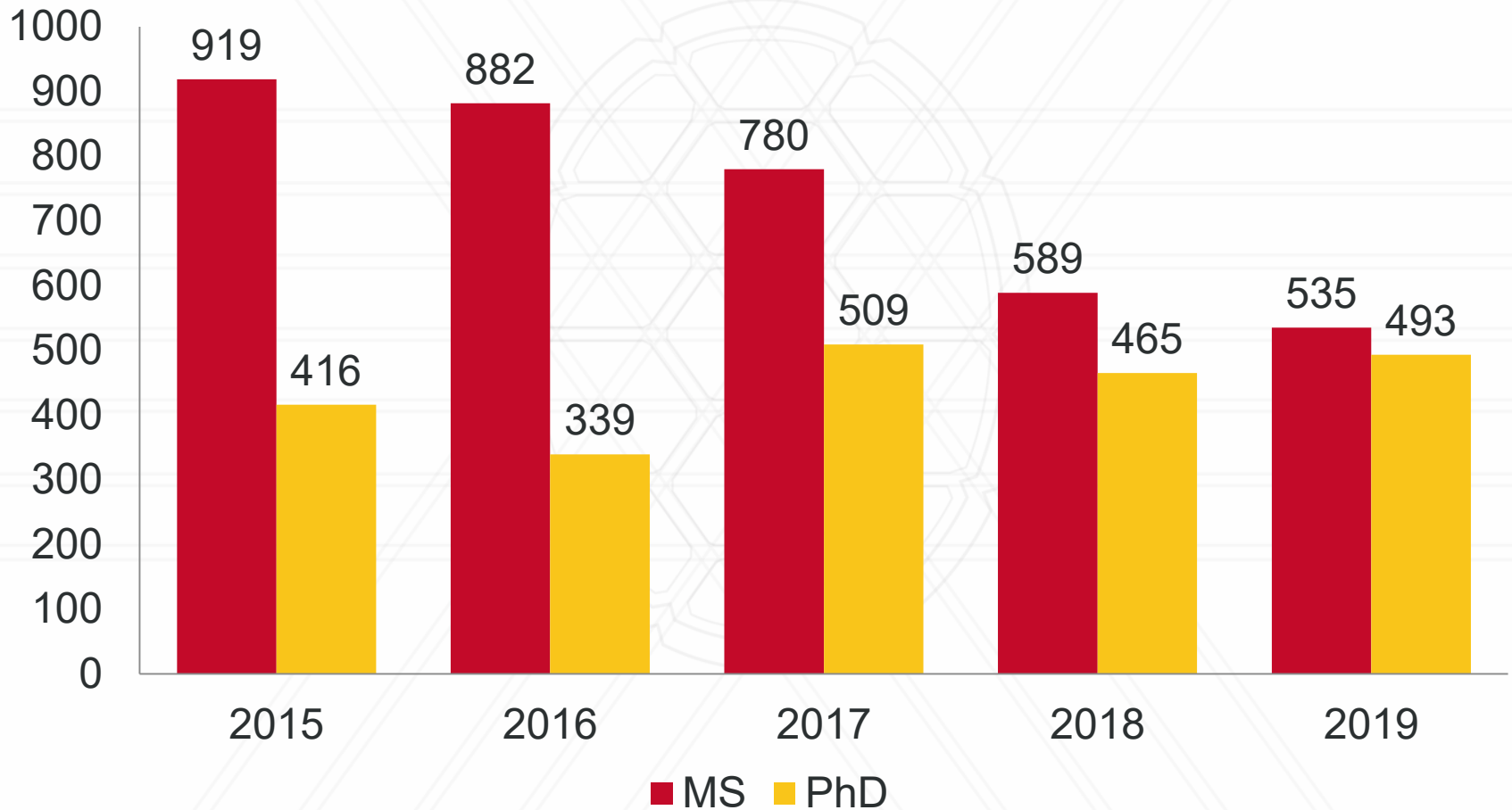
# **ECE Graduate Studies – Fall 2019**

Melanie Prange/ Graduate Studies Office/ Electrical and Computer Engineering

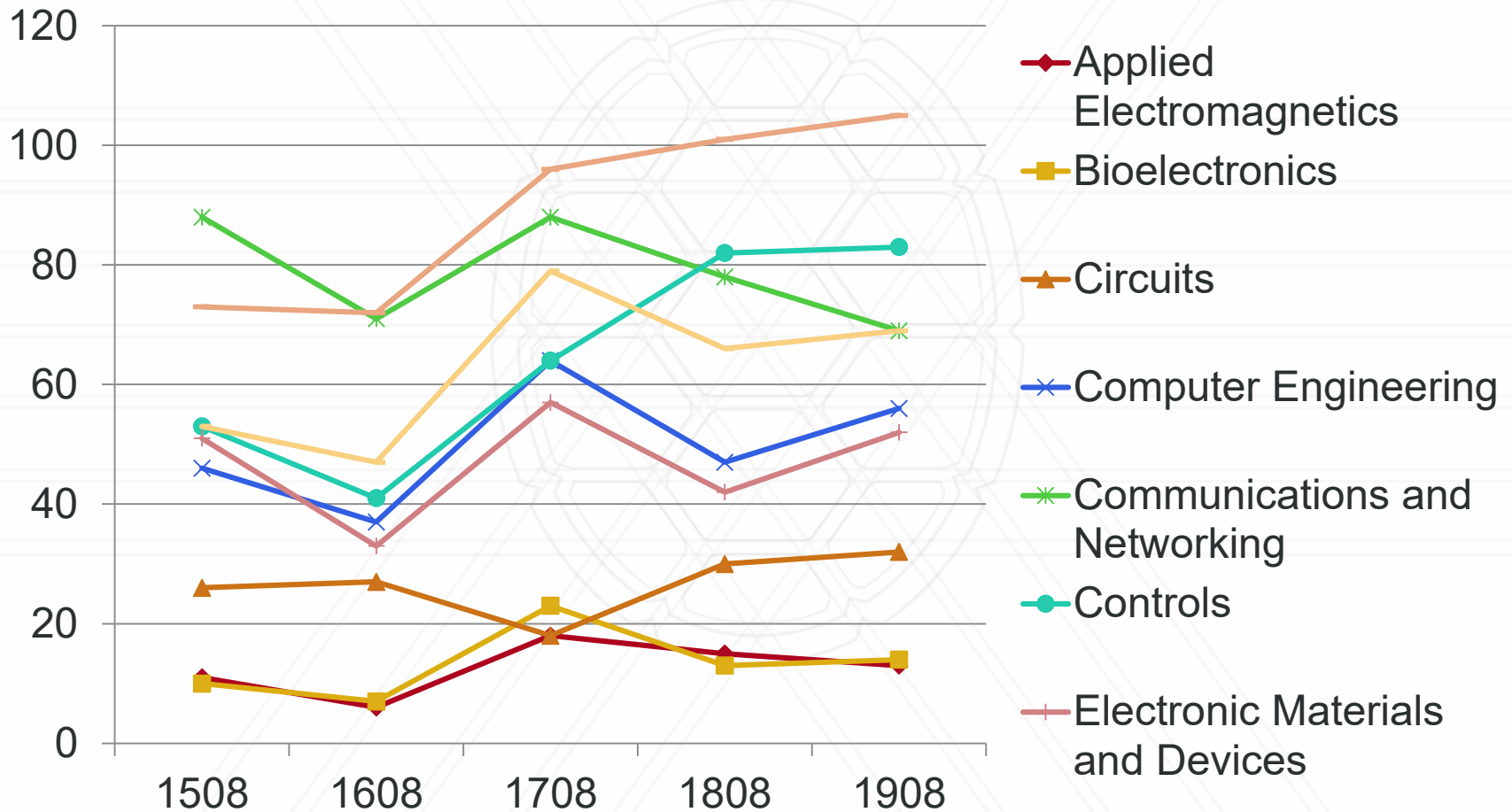


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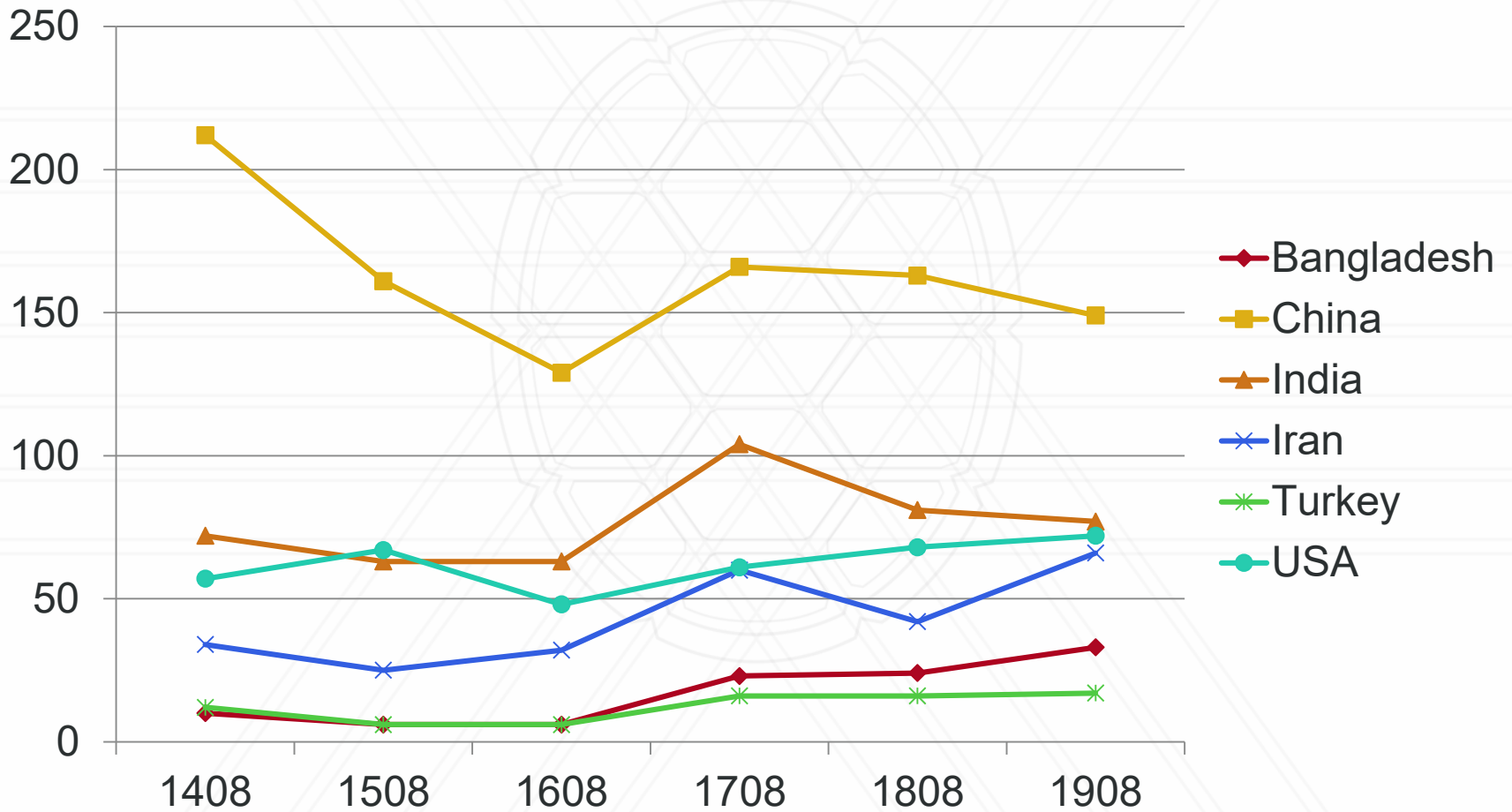
# MS and PhD applications



# PhD Applications by Area



# PhD Applications by Country



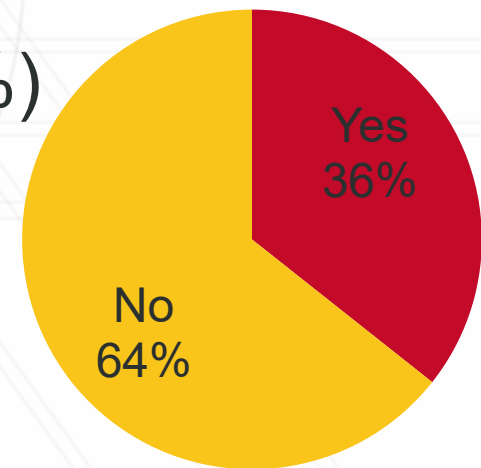
# Fall 2019 Financial Offers

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## 129 total PhD offers, 46 offers accepted

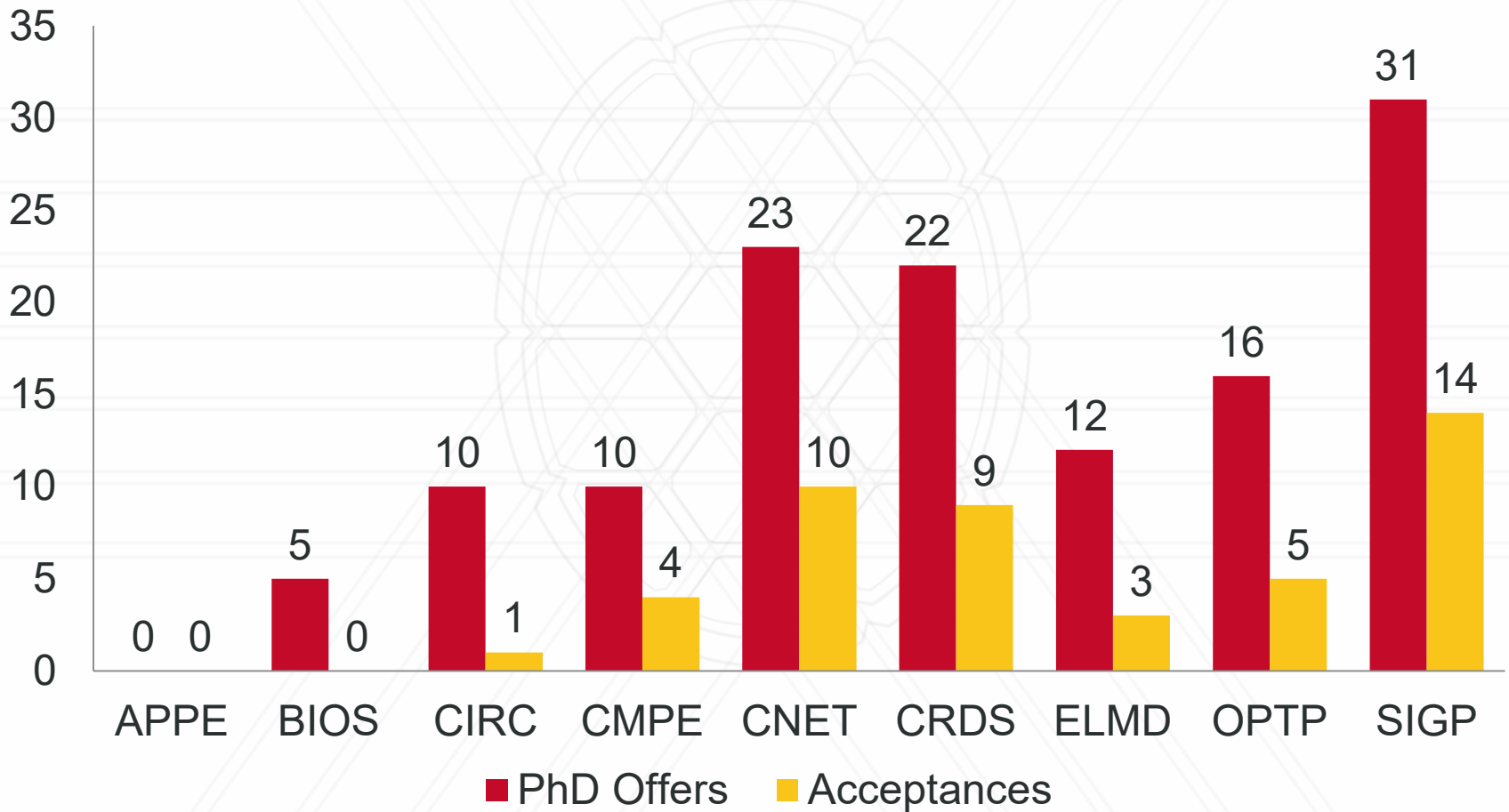
- Clark Doctoral Fellowship: 6/12 accepted (50%)
- GSR: 13/27 accepted (48%)
- GST: 6/28 accepted, (21%)
- GTA: 14.5/54.5 accepted, (27%)
- GRA: 6.5/7.5 accepted, (87%)

Fall 2019 Yield



\*Fall 2018 first round yield: 28%  
Second round yield: 31%

# PhD Offers by Area



# 2019 ECE Graduate Visit Day



## ECE Graduate Visit Day Agenda

Department of Electrical and Computer Engineering, University of Maryland

Monday, March 25, 2019

- 9:00 am** Meet in hotel lobby to walk to campus (hotel guests only)
- 9:30 am** Welcome and breakfast, 2460 A.V. Williams Building  
Professor Joseph Jaja, Department Chair  
Professor Sennur Ulukus, Associate Chair, Distinguished Scholar-Teacher  
Melanie Prange, Director, Graduate Academic & Student Affairs  
Emily Irwin, Program Manager, Graduate Studies  
Guerda Mervilus, Program Coordinator, Graduate Studies  
Maria Hoo, Program Management Specialist
- 10:00 am** Faculty research presentations  
Professor Dana Dachman-Soled (Cybersecurity)  
Professor Kevin Daniels (Microelectronics)  
Professor P.S. Krishnaprasad (Controls and robotics)  
Professor Min Wu (Signal Processing)  
Professor Jeremy Munday (Electrophysics)
- 11:00 am** Campus tour
- 12:00 pm** Lunch with faculty and graduate students
- 1:00 pm** Individual meetings with faculty as scheduled

\*\*Return to hotel at your convenience\*\*

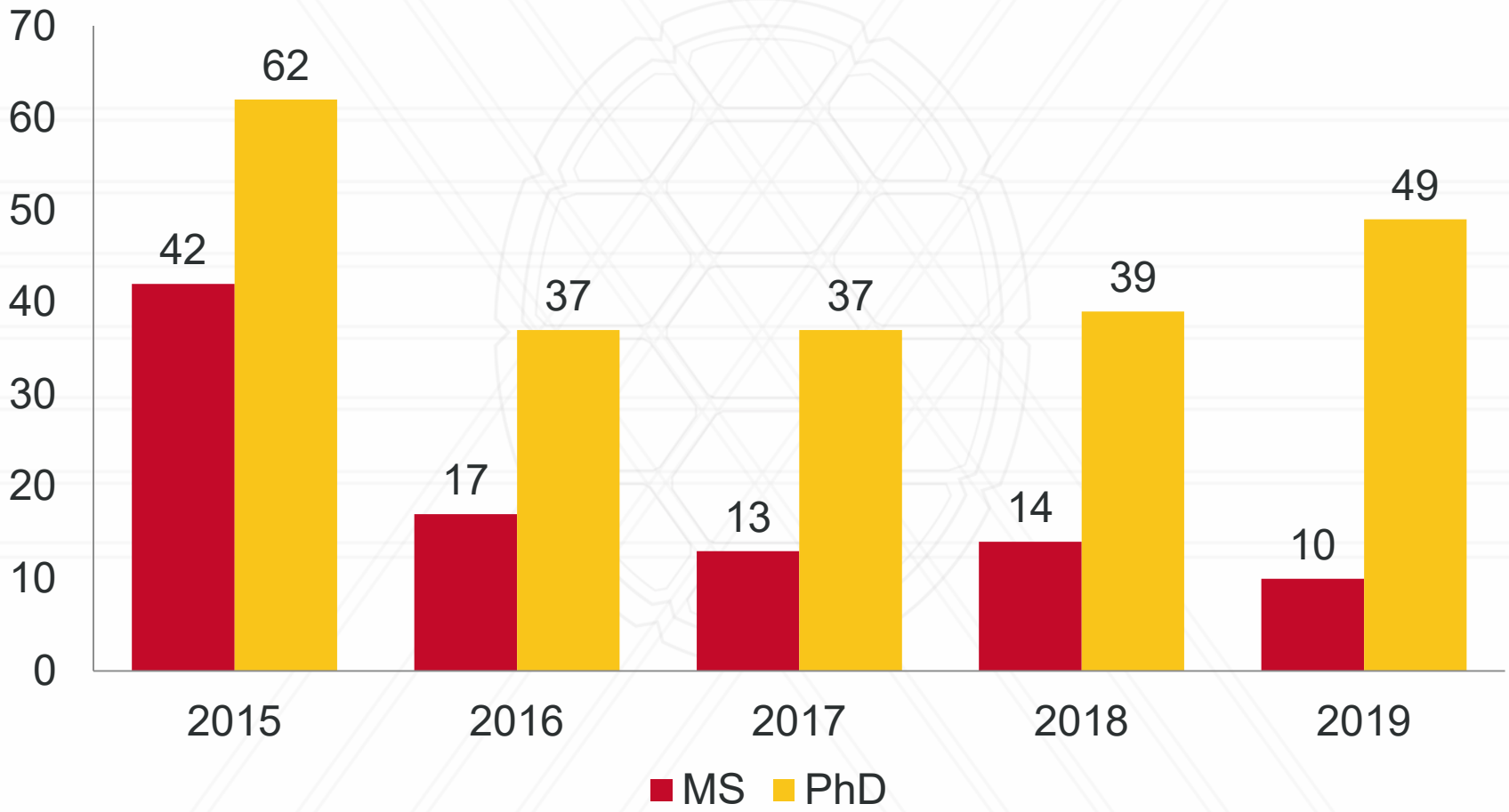
### Visit Day Statistics:

- 47 applicants invited
- 20 attended
- 11 accepted offers

### Faculty Research Presentations:

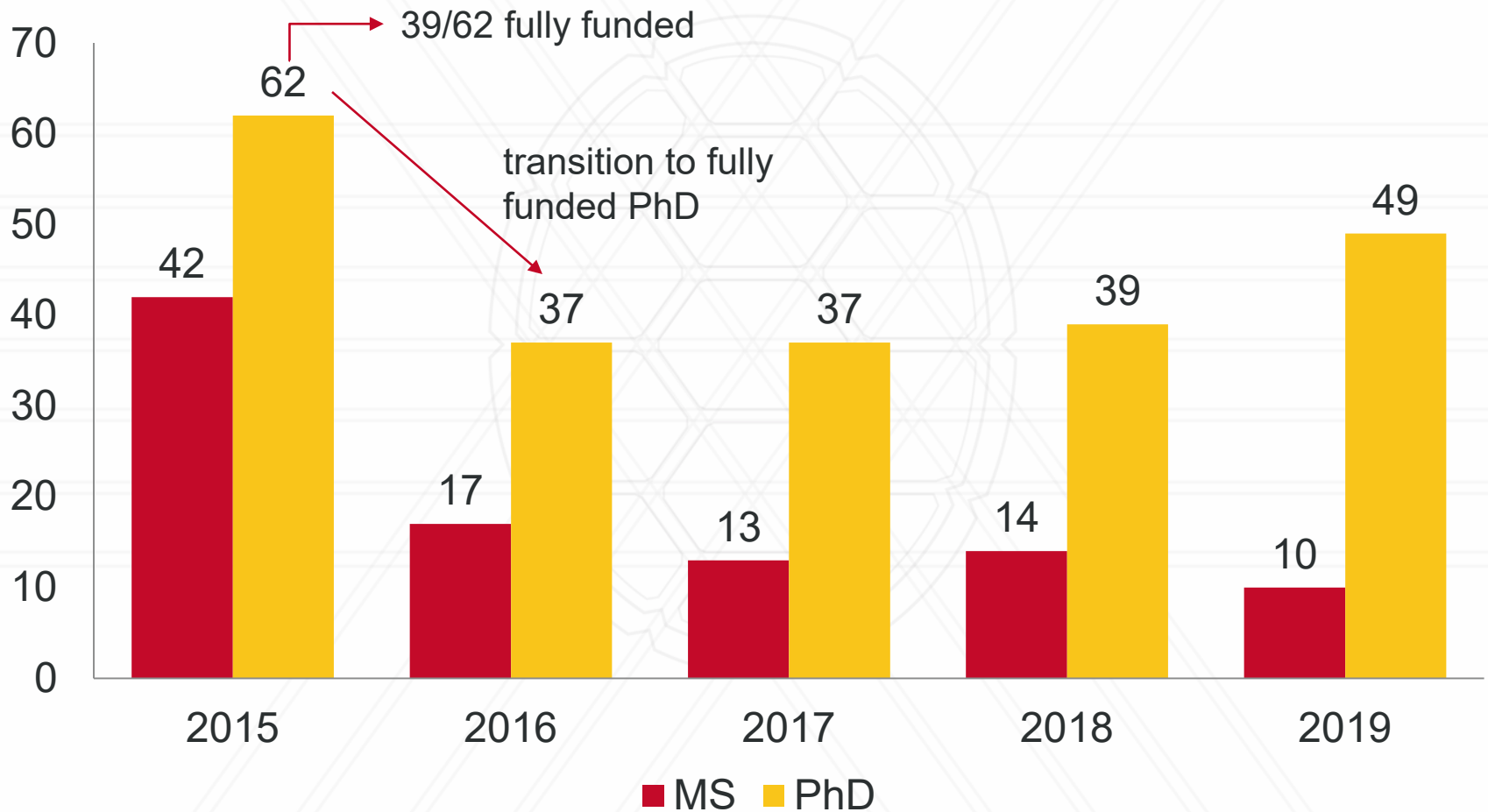
- Professor Dana Dachman-Soled (Computer Engineering)
- Professor Kevin Daniels (Microelectronics)
- Professor P.S. Krishnaprasad (Controls)
- Professor Min Wu (Communications and Signal Processing)
- Professor Jeremy Munday (Electrophysics)

# Incoming Graduate Students

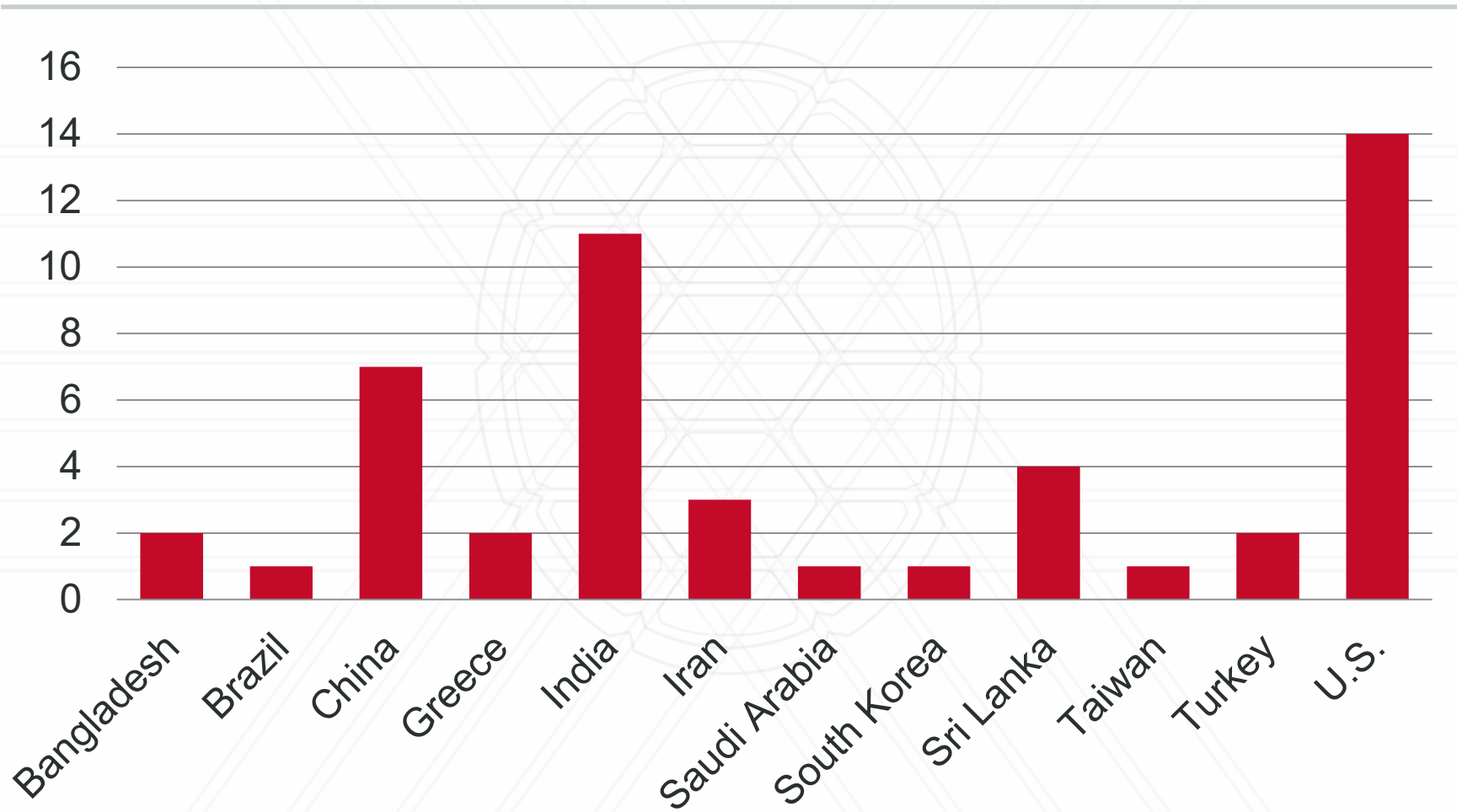




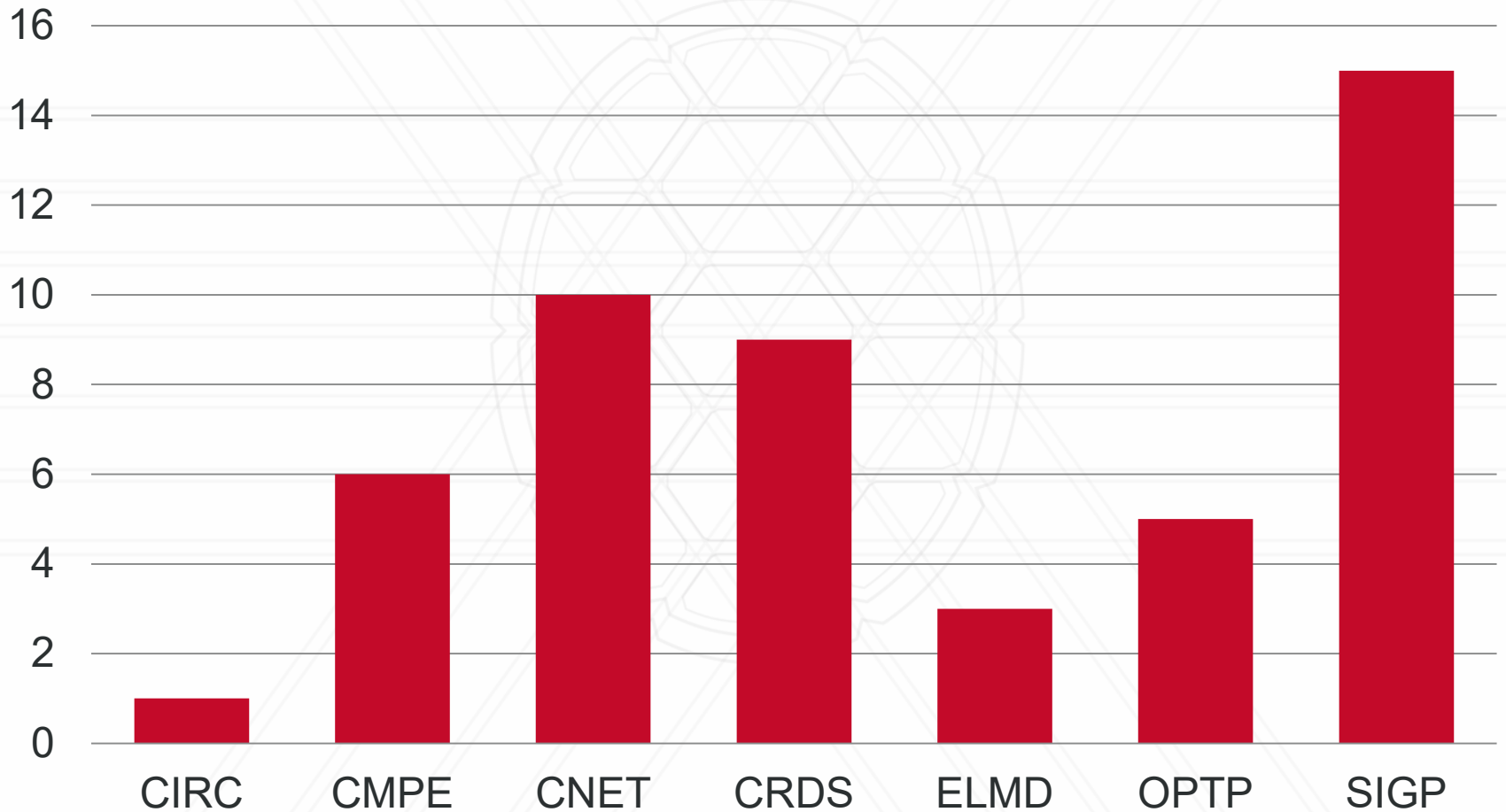
# Incoming Graduate Students



# Fall 2019 New PhD Students (by country)



# Fall 2019 New PhD Students (by area)



# Fall 2020 PhD Application Fee Waiver

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ELECTRICAL & COMPUTER ENGINEERING

## PhD Application Fee Waiver

UNIVERSITY OF MARYLAND



Fall 2020 PhD application fee waived - submit by December 15



ECE graduate programs are ranked #16 nationwide and among the top ten public universities, according to US News and World Report.



Visit [ece.umd.edu](http://ece.umd.edu)  
to learn more and  
apply today!

**APPLY NOW**



A. JAMES CLARK  
SCHOOL OF ENGINEERING

# Fellowship Options for Faculty

With 40 hr/week summer support, student stipend goes up from **\$30,757** to **\$36,530**.

	<b>GSR (40 hr summer)</b>	<b>GSR (30 hr summer)</b>	<b>GSR (20 hr summer)</b>
9-month stipend	\$9,227	\$9,227	\$9,227
Summer stipend	\$12,303	\$9,227	\$6,152
Dean's Fellowship	\$15,000	\$15,000	\$15,000
<b>Total stipend</b>	<b>\$36,530</b>	<b>\$33,454</b>	<b>\$30,379</b>

# Fellowship Models

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## 3-year model:

- Year 1: Fellowship plus half-GRA with 20/40 hr/week summer
- Year 2: GRA or GTA
- Year 2: GRA or GTA

## 4-year model:

- Year 1: Fellowship plus half-GRA with 20/40 hr/week summer
- Year 2: GRA
- Year 3: GRA or GTA
- Year 4: GRA or GTA

## Clark Doctoral Fellowship (U.S. citizens/permanent residents):

- Year 1: Fellowship (from the Clark Foundation)
- Year 2: GRA plus 40 hr/week summer GRA
- Year 3: GRA or GTA plus 40 hr/week summer GRA
- Year 4: GRA or GTA plus 40 hr/week summer GRA

# Fellowships and Awards

## ECE Distinguished Dissertation Award

**Shahriar Aghaeimeibodi**, advised by Prof. Waks  
*Integrated Quantum Photonic Circuits with Quantum Dots*

**Ayan Mallik**, advised by Prof. Khaligh  
*Regulated Transformer Rectifier Unit for More Electric Aircrafts*

**S. Sina Miran**, advised by Prof. Babadi  
*Efficient Solutions to High-Dimensional and Nonlinear Neural Inverse Problems*

## Other Notable Awards

Ann G. Wylie Dissertation Fellowship

- **Yuntao Liu**: *Enhancing IP Security of SoCs using Hardware Obfuscation*
- **Bathiya Senevirathna**: *Development of a Biosensor for Real-time Label-free Monitoring of Cell Viability*
- **Shahriar Aghaeimeibodi**: *Integrated Quantum Photonic Circuits with Quantum Dots*

Kulkarni Summer Research Fellowship

- **Abhishek Chakraborty**

Dean's Research Award (Ph.D.)

- **Ayan Mallik**: *Regulated Transformer Rectifier Unit for More Electric Aircrafts*

Dean's Research Award (M.S.)

- **Nate Ferlic**: *Forward Scattering Meter for Visibility Measurements*

# Master's in Machine Learning

- **New professional MS program proposed by ECE and CS**
  - Similar to the ENTS program.
  - Technical only (no business component).
  - Focus: practical, industry-oriented, with solid foundations.
  - Inspired by similar existing programs at CMU, NYU, Columbia.
  - **Final approval: July 2019**
- **Program Started Winter 2020 term (November 25, 2019)**
  - Approximately 20 students in the first cohort.
  - Three courses being taught by ECE, CS, and Math faculty.
  - Four term program: International students can only start in August; U.S. students can start any term.





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**Melanie L. Prange**

2437 AV Williams Bldg., College Park, MD 20742

301.405.3686 / [mprange@umd.edu](mailto:mprange@umd.edu)