



# MEDHACKS



JOHNS HOPKINS  
UNIVERSITY

**SEPTEMBER 27 - 29  
2019**

*Bridging the gap between engineers, clinicians,  
healthcare professionals, and entrepreneurs to  
accelerate medical innovation*

# MEDHACKS

Friday, September 27th, 6:30 pm to  
Sunday, September 29th, 3 pm

MedHacks is an unique event where hundreds of students and professionals come together for a weekend at Johns Hopkins University to tackle some of the world's most pressing medical issues. Each team spends 36 hours researching, coding, and presenting its finished projects to a panel of judges who award cash prizes.

## 2018 Project Tracks

### Open Science to Advance Health Equity



*Patients' non-adherence to medication results in adverse health effects and expensive healthcare costs. Teams on this track will ideate and develop new programs and services to solve the adherence challenge and keep patients on their path to better health.*

### Community Health Infrastructure



*Blue Cross Blue Shield believes that social and regional determinants more often than not dictate patients' health as opposed to their genetic codes. Teams on this track will come up with their own solutions addressing the problem of accessing adequate health care.*

### Patient Safety & Quality

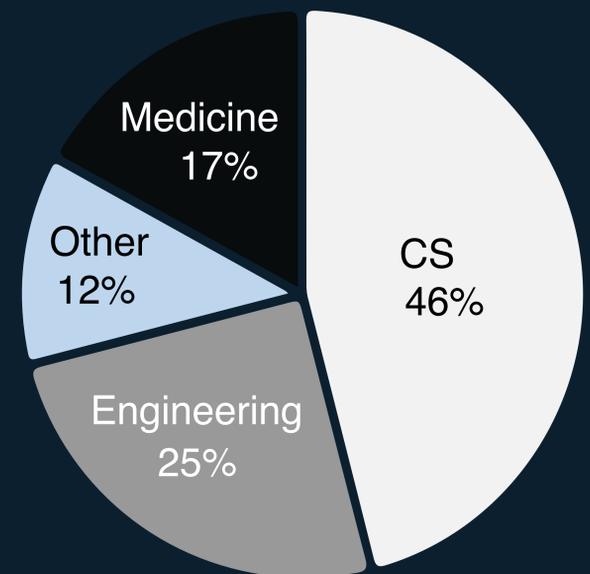
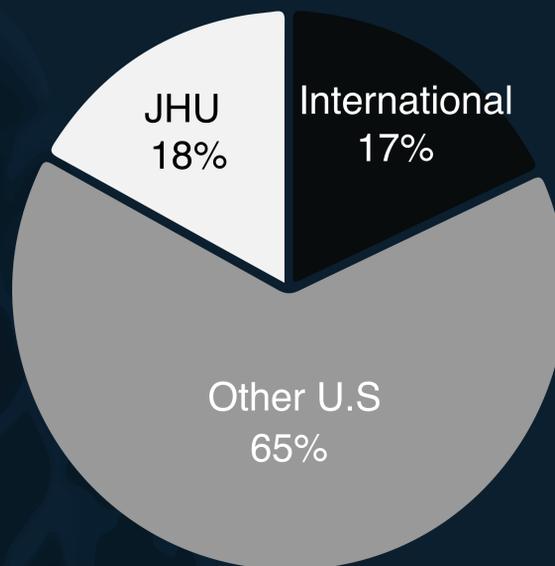
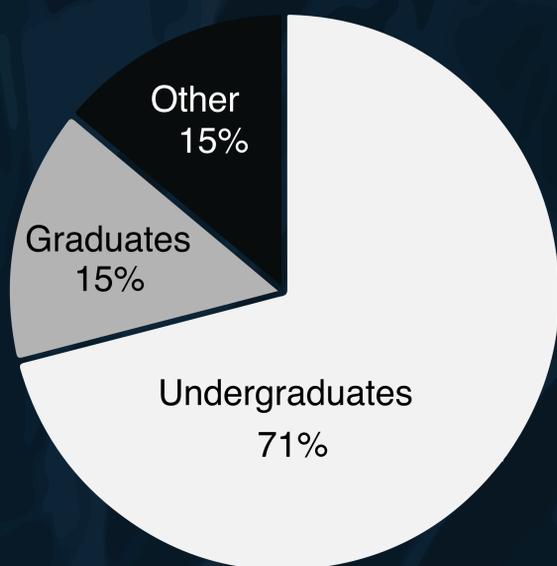


*Teams on this track will come up with solutions to eliminate preventable harm to patients and to achieve the best patient outcomes at the lowest possible cost. There will be three focus areas: enhancing patient experience, improving healthcare productivity, and decreasing healthcare costs.*

# From Last Year...

## Who Attended?

Around 500 students from across the world with varied backgrounds



### Applicant Breakdown

Notable Universities: MIT, UC Berkeley, Carnegie Mellon University, Columbia, Georgia Tech, Duke, University of Pennsylvania, and University of Waterloo

## Best Projects

### Melatonix



Melatonix created a tool that analyses pictures of skin lesions via machine learning and computer vision to calculate the risk of melanoma with a 92.4% identification accuracy.

### Bandwidth



Bandwidth is a sensory band that detects risk factors for deep vein thrombosis in hospitalized patients. Any findings will be relayed to computers in the hospital's nursing station and ultimately improves the early detection of DVT.

### Citizen Scientist



Citizen Scientist is a web app that helps connect patients with clinical trials. Clinical research interests can pay Citizen Scientist to survey users and patient populations using the app, and patients can volunteer on a case-by-case basis.