

# Pitt Challenge 2019 COMPETITION BOOKLET

www.pittchallenge.com







UPMC HEALTH PLAN





















### PIL.LAB Producers of Pitt Challenge 2019

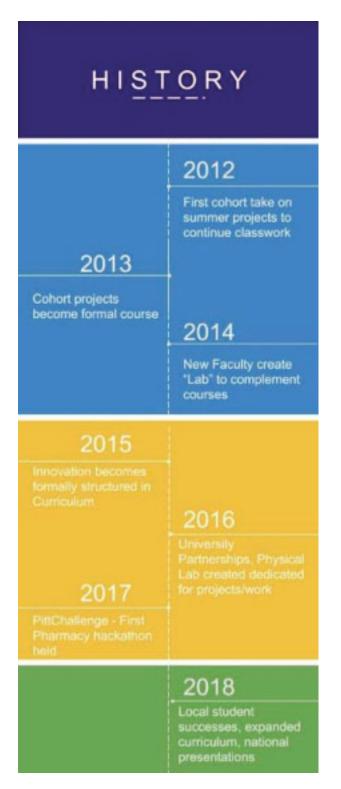


#### Who are we?

We are the Pharmacy Innovation Lab (PIL.LAB), the innovation center of the school of pharmacy. We reimagine healthcare through our students, faculty, and projects - including the Pitt Challenge 2019

### **Our Story**

The Pharmacy Innovation Lab is a think tank solving pharmacy's problems of tomorrow, today. We're re-imagining pharmacy. Originally started as a course, "Contemporary Issues in Pharmacy" evolved from group discussions about current issues, problems, and solutions to a setting where practical application is used to address these topics in the "Pharmacy Innovation Lab" (PIL). Today, the PIL is an association of School of Pharmacy faculty/students, others University of Pittsburgh School students, retail chains, hospitals, longterm care pharmacies, and patients working together to identity problems and innovate solutions.

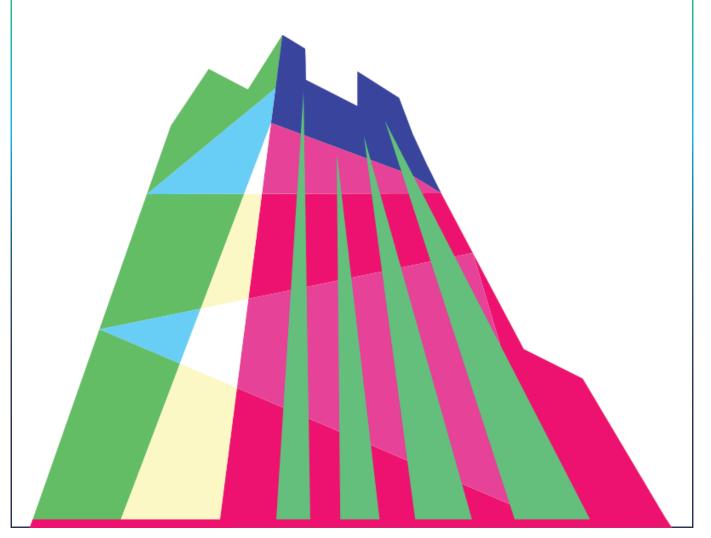


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Our Mission Expedite healthcare innovation through experience and network

Our Vision A world where healthcare is a leading industry in technology innovation



### Why are we passionate about healthcare innovation?

### We believe there are two problems:

#### 1. The "Network Chasm"

It separates innovators and healthcare providers for lack of knowing eachothers' full capabilities.

### 2. The "Complexity Gap"

The challenges we face in healthcare are not as obvious as most people think.

The Pitt Challenge offers students the opportunity to tackle these issues.

Through our 24-hour hackathon, students are creating the next innovations in healthcare and technology.

### Statistics Pitt Challenge 2019

- **120** total participants
- **94** computer science students
- 26 healthcare students
- 31 final team submissions
- 16 academic institutions
- 9 states 2 countries

### Production Team Pitt Challenge 2019

#### Pitt Pharmacy Faculty & Staff



Ameer Ali ameer.ali@pitt.edu PharmD Faculty, Director



Ravi Patel ravipatel@pitt.edu PharmD Faculty, Co- Director



Matt Freidhoff mjf49@pitt.edu Staff Operations Mgr

#### **Pharmacy Students**



**Spencer Schlecht** sgs38@pitt.edu Student Lead

Fourth year student pharmacist on the pursuit towards empowering individuals to lead healthy, autonomous lives through tech and creativity



**Dan Shrum** danschrum@pitt.edu Student Co-Lead

Fourth year student pharmacist pursuing a career in critical care and infectious disease blended with leading the field in innovative technologies



Adam Patrick adam.patrick@pitt.edu

Fourth year student pharmacist dedicated to improving patient outcomes through the use of evidence-based medicine in the clinical pharmacy setting



Colin Pfeiffer cmp132@pitt.edu

Third year student pharmacist focusing on digital health technologies and international pharmaceutical



Brooke Kulusich bek69@pitt.edu

Second year student pharmacist interested in pharmacy law, regulatory affairs, and business innovation

#### Computer Science Students



Roisin O'Dowd roisinodowd@pitt.edu Alumna

Software engineer interested in improving medical care and furthering biomedical research through the use of technology



**Justin Kramer** jpk91@pitt.edu Junior

Software engineering student looking to innovate in the healthcare sector and make an impact



**Steven Barash** stevenbarash@pitt.edu Senior

Fourth year Information Science student and software engineer interested in UI/UX, front end, and mobile development



Torrey Trahanovsky tnt29@pitt.edu Junior

Third year Information Science and Business Supply Chain Management double degree student, focused on Innovation Labs in the corporate setting



**Josh Arabia** josh.arabia@pitt.edu Junior

Junior studying computer science with a focus on video game design and production

### Past Participant Highlight Pitt Challenge 2019

Past participant Collin Wolf shares his journey from the 2017 Pitt Challenge where he first sparked the idea for Cassian Case to the success he has seen as a business owner today.

### Then

"From having my first experiences working in specialty pharmacists, the problem of having pharmacists spend a lot of their time on the phone like a telemarketer is ripe for innovation and improvement. Our first prototype involved ripping off the heads of Pez dispensers and making a phone case jammed with altoids to demonstrate the idea."







### Now

"Now we have a functional product used in patient studies for HIV Prophylaxis. We also have a software platform that automates patient data collection and pharmacy workflows which we are commercializing today."

### Award Summary Pitt Challenge 2019

First Place

Second Place

**Third Place** 

Cash prize of \$3000 Cash prize of \$2000 Cash prize of \$1000

#### Interactive Health Kiosks

Amazon Fire Tablets

#### Virtual Medical Simulation

Leap Motion Controller

#### **Medical Education Game**

Classic NES and ega Genesis Game Systems

#### **Big Data**

500GB External SSD

#### **Remote Patient Interaction**

Google Home Hub

#### **Electronic Health Records**

Rocket Notebook

#### **Tech and Mental Health**

One year subscription to Headspace

#### **Improved Dictation**

TT Easy Trans Smart Language Translator

#### **Best UiPath Automation Hack**

UiPath/MLH Backpack

### **Best Use of Google Cloud**

Google Home Minis

#### **Best Domain Registered with Domain.com**

Domain.com Backpack

#### **Best Use of MongoDB Atlas**

Brand MongoDB AirCharge Plus

 $\textbf{To view all project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentations, visit:} \ \texttt{https://drive.google.com/open?} id = 1Q-8A0 jotvOz5ti9NrPX2dzFk9kZUCUjJStiewall project submission presentation project submission proje$ 

### First Place Pitt Challenge 2019



#### **ZeroDK**

**Devpost**: https://devpost.com/software/zerodk **Watch Presentation**: https://drive.google.com/open?id=1yAwQwtNbPVt7aV3aX-526Vo0GTEJ7Xu80

"We're the Progressive Snapshot for dental hygiene and enable insurance providers to quantify real-time individual risk for dental disease while enabling end users insights into to their oral care habits. We did this by creating a toothbrush and dental floss holder. This smart device can track the time and date you used each item and for how long."



#### First Place Team Member Profiles



**Sohail Rana | 3rd Year Dental, University of Pittsburgh** smr140@pitt.edu

Major: Doctor of Medicine in Dentistry Other skills/languages: Learning Arabic Dream job: Dental Entrepreneur

Favorite hobby: Working on Cars, traveling, and reading



**Maxwell Shaginaw | Senior, Penn State University** mcs5742@psu.edu

Major: Computer Engineering

Other skills/languages: MATLAB, VHDL

Favorite hobby: rock climbing



Tyler St. Amand | Freshman, Penn State University

stamandtyler@gmail.com Major: Software engineering

Other skills/languages: Basic C++, C#, HTML, CSS, JavaScript, Python

Dream job: C# Backend Developer Favorite hobby: Playing a full drum set



### **Muntaser Syed | 2nd Year PhD, Florida Institute of Technology** mysed2011@my.fit.edu

Major: Computer engineering (ML and Wireless sensors)
Other skills: programming, cyber security, IoT, AI, Blockchain

Dream job: Head R&D scientist at Google/Microsoft/Amazon or a national

aboratorv

Favorite hobbies: Music (play guitar and bass), Hackathons



### Andrey Popkov | Graduate Student, University of Pittsburgh aap102@pitt.edu

Major: MS Management Information Systems

Other skills/languages: Startup of products/departments/companies, Project management, Business processes optimization, Budgeting and finance control,

Marketing strategy and tactics, Broad technology knowledge, Russian

Dream job: Complex IT project department director

Favorite hobby: Traveling

### Second Place Pitt Challenge 2019

### Simpl

**Devpost**: https://devpost.com/software/simpl-8bgmzn Watch Presentation: https://drive.google.com/open?id=109YW5g0W9ynT86c132UC8eBsWue-FOoBR

"Using Computer Vision to analyze your motor patterns in real-time, SimpL analyzes your joints in order to gather information about how you move. SimpL gives auditory feedback as perform physical therapy exercises and workouts. Using biometric analysis, SimpL helps diagnose patients with muscular imbalances as well as treat patients when the presence of a healthcare professional is not around."



#### **Team Members**

#### Andy Kong | Sophomore, Carnegie Mellon University

akong@andrew.cmu.edu

Major: Computer Science

Other skills/languages: Chinese, Juggling, Python

Dream job: Technical founder of a wearable device startup

#### Aashai Avandhani | Sophomore, Carnegie Mellon University

aavadhan@andrew.cmu.edu

Major: Statistics and Machine Learning/Software Engineering

Other skills/languages: NLP, Python, Java, Data Science

Dream Job: Using programming/data analysis to better the lives of others

#### Kunal Gandhi | Junior, University of Pittsburgh

kunalgandhi99@gmail.com

Major: Neuroscience and Computer Science Majors

Other skills/languages: English, Mandarin Chinese, Gujarati, Java, Python, R.

Matlab

Dream Job: Finding the intersection between health and technology

### Third Place Pitt Challenge 2019

### SiMMan

**Devpost:** https://devpost.com/software/simman-pbvegm

Watch Presentation: https://drive.google.com/open?id=1Mgq1\_0wOpeCLkLoe1y-i3OUUHZu5G2B 8

"Team siMMan's project is a virtual reality surgery simulator aiming to streamline surgery simulation creation and expansion. The simulation focuses on the ability to import surgery scenarios in a virtual environment for teaching and practice settings. These scenarios can be made extremely accurate by using image processing technology on MRI and CT scans in order to convert them to 3D models for the simulations."



#### **Team Members**

#### Jacob Puckowitz | Senior, University of Pittsburgh

jsp64@pitt.edu

Major: Mechanical Engineering

Other skills/languages: ANSYS, computer modeling

Dream Job: Design oriented engineering

#### Jacob Shrubb | Senior, University of Pittsburgh

jas558@pitt.edu

Major: Statistics and Machine Learning/Software Engineering

Major: Mechanical Engineering

Other skills/languages: SolidWorks, Fusion360, Blender, Python, Matlab Dream job: Design Electric Vertical TakeOff and Landing (E-VTOL) vehicles

#### Jarod Vickers | Senior, University of Pittsburgh

jav88@pitt.edu

Major: Computer Engineering

Other skills/languages: I once knew Spanish. Now I speak Java.

Dream job: Something in hockey/football management or player recruiting

#### Hervé Nyemeck | Senior, University of Pittsburgh

hervenyemeck@gmail.com

Major: Mechanical Engineering

Other skills/languages: Python, JavaScript, Improv, French

Dream job: Owner of a BnB in Scotland, or coffee shop in the south of France

### Track Winners Pitt Challenge 2019



#### Interactive Health Kiosks

Kare Kiosk | Vincent Occhiogrosso (occhys@farmingdale.edu)

A portable modular health monitoring kiosk that enables the user to update health records

https://devpost.com/software/kare



#### Virtual Medical Simulation

July Affect | Olivia Wininsky (Onw5@pitt.edu)

Roman Kasparian (RVK6@pitt.edu), Collin Abidi (cba15@pitt.edu)

Reduce mortality rates in hospital during training season by training med students to be used to respond to notifications and remember to deliver care https://devpost.com/software/july-effect



#### **Medical Education Game**

Kapow! | Zach Lynn(Zach.lynn10@gmail.com) & Ilana Udler (iyu1@pitt.edu)

An interactive way to log seizure patterns for children

https://devpost.com/software/kapow-8oi0ft



#### **Big Data**

Snack Check | Kenan Rustamov (ker108@pitt.edu), Elijah Kajinic (elk75@pitt.edu)

A new, responsive mobile application that seeks to accommodate a wide array of dietary preferences and restrictions when offering recipes

https://devpost.com/software/medical-tracker



#### Remote Patient Interaction

Meditrace | Abhinav Mamidipaka

An app that logs symptoms as they are experienced in real-time https://devpost.com/software/medical-tracker



#### **Electronic Health Records**

GoHabit | Charlie Yang(haoy2@illinois.edu), Takumi Li (feiyang3@illinois.edu)

The behavioral change platform that boosts employee health and promotes business success

https://devpost.com/software/gohealth-xwyflj



#### Tech and Mental Health

StressOS | Emily Novak (emilynovak@pitt.edu), Anna Shafer (ars216@pitt.edu), Andrew Dant (agd25@pitt.edu), Dan Farquhar (dbf5118@psu.edu)

A biofeedback app to use while performing a deep breathing exercise to combat stress and elevated blood pressure

h https://devpost.com/software/stressos-3m70st



#### **Improved Dictation**

HelpMe | Richard Rosenthal (richard.rosenthal@acd.ccac.edu)

A voice app that offers a more affordable replacement to life alert https://devpost.com/software/alexa-first-aid-kit-3tfscw

### Major League Hacking Awards Hackathon 2019



#### **MongoDB**

Neurocare | Megan Ung (ung.meg@gmail.com), Stephen Price (sprice1@ andrew.cmu.edu), Serano Tannason Ng (stng@andrew.cmu.edu)

A suite of digital biomarkers to measure neurocognitive decline https://devpost.com/software/neurocare

#### Domain.com

Bugs vs Drugs | Neha Hafeez (neh43@pitt.edu74), Vaidehi Patel (vaibhavmishu@gmail.com), Catherine Pressimone (cap128@pitt.edu)

A clinical microbiology teaching game that reframes medical education into an interactive scenario driven game to teach students how to diagnose and treat patients presenting with various infectious diseases

https://devpost.com/software/bugs-vs-drugs-a-clinical-microbiology-teaching-game

#### **Google Cloud**

Ellie | Andrew Gagen (amg285@pitt.edu), Madelyn Frank (mef108@pitt.edu)

A mental health chatbot app that reaches out to you and can send your mood data to your therapist

https://devpost.com/software/ellie

#### **Uipath**

#### Meditrace | Abhinav Mamidipaka

An app that logs symptoms as they are experienced in real-time https://devpost.com/software/medical-tracker

#### Other Submissions Hackathon 2019

#### Aware | Robert Kwiat (rek78@pitt.edu), Sridhar Reddy Velagala (Srv28@pitt.edu)

An iOS application that provides instant feedback for whether a skin growth is cancerous, facilitating early detection

### Blossom | Alexis Mingey (aem110@pitt.edu), Annalisa Nguyen (Aln71@pitt.edu), Yu Sun (yusun31tc@gmail.com), Victoria McCrary (Bhero122@gmail.com)

Personalized monthly adherence packaging and delivery service based on scheduled lab values, routine patient reported outcomes, and chronic disease state management tools

# Cool Document Analyzer | Joshua Lane (Jtl56@pitt.edu), Calvin Yu (cay44@pitt.edu), Matthew Wojtowicz (wojtowicz.m@husky.neu.edu), Jason Chukwu (Juc80@pitt.edu) Allow people to more easily understand their medical records

### CPR Hero | Robert Xu (Rox5@pitt.edu), Spencer Miller (sdm74@pitt.edu), Ryan Yang (cxy99@mit.edu)

A simple game that introduces kids to CPR

### Disease Sim | Gabe Balannik (gib24@pitt.edu), Zhixiang Teoh (zht17@pitt.edu), Sean Shmulevich (szs23@pitt.edu)

A single player disease spread simulator

#### HeelHeal | John Ng (ngjohn15@gmail.com), Alan Shen (alshen@unm.edu)

An app that analyzes a user's foot image to determine the healing rate and medical suggestions

### Helpful Bear | Karen Haberbusch (kah277@pitt.edu), Shelby Vanvliet (slv33@pitt.edu), Elizabeth Jones (ebj8@pitt.edu)

Bear is here to help! He wants his friends to stay happy and healthy, so he likes to check up on them every once in a while. This game teaches kids the importance of physical and mental health.

#### Live It | Abilash Subbaraman (asubbara@andrew.cmu.edu), Hariharan Ramasubramanian (hariharr@andrew.cmu.edu), Harshine Visvanathan (hvisvana@andrew.cmu.edu)

An interactive game which guides and educates you towards a healthy you, assigning personalized characters and scenarios

# Mindful Browsing | James Brennan (jtb117@pitt.edu), Allie Walker (anw89@pitt.edu), Ben Rucker (brucker117@gmail.com), Ben Nathanson (hvisvana@andrew.cmu.edu), Zach Grimaldi (zpg6@pitt.edu)

A Chrome extension that empowers users to browse the internet safely by proactively tagging search results known to be toxic, false, or misleading

#### Other Submissions Hackathon 2019

#### ML Stim | Joey Kilgore (joey.a.kilgore@gmail.com), Brian Xiong (Bxiong1000@gmail.com), Adam Savel (Adam.Savel@rockets.utoledo.edu)

Hardware that uses machine learning to optimize electrical stimulation to block pain

#### Pill Identity | Halmon Lui (luih@wit.edu)

Identifying pills from your cabinet for people who have difficulty seeing

#### PittCare | Vaibhav Shrivastava (vaibhavmishu@gmail.com)

Blockchain based system for tracking patients; prescription records

#### Preemptive Disease Screenings through EHRs |

Elexie Munyeneh (emunyene@uncc.edu)

An app that performs batch scanning on EHRs to reduce costs in healthcare and prevent nationwide breakouts or hidden conditions

#### Rx Guardian | Jeffrey Onyeador (jeo39@pitt.edu),

Raia Krishnaswamv (Rithescholar@gmail.com), Philip Matthew (ptm18@pitt.edu)

Reduce preventable adverse drug events by providing a path for simple and accurate communication of medication lists to occur

#### Sched 'It | Carattica Harben (cara.harben@gmail.com).

Heather Dillman (HLD42@pitt.edu), and Jasmin Lizardo (jcl96@pitt.edu)

A medical scheduling tool for the Google Assistant with Google Calendar integration that makes scheduling a doctor's appointment as easy as saying, "Hey Google!"

### Sitting Companion | Wen Guangxue (Guw16@pitt.edu),

Wu Yue (yuewu9512@gmail.com)

An app that monitors incorrect sitting posture and reminds you via a notification

#### Xwait | Joseph Monaco (jcm132@pitt.edu), Shane Seager (sjs193@pitt.edu), Gianna Emmett (GME20@pitt.edu), Darius Ramavarapu (Drr52@pitt.edu)

A platform that shows how long the wait time is during walk-in hours at student health

### Addendum A Judging Criteria Matrix

1. Technical o	complexity ac	hieved - H	ow ambitio	us was the	project and	d how much	did they com	plete?	
	Too ambitio	us		About righ	nt				
Too simple	and failed			for 24 hou		y technically	skilled Weeks		4 hours
1	2	3	4	5	6	7	8	9	10
						Total mult	iplied by 3 =		
2. Was the <b>pr</b>	2. Was the <b>problem</b> clearly defined with a direct link to a user pain (empathy and clarity)?								
			Und	derstands pr	oblem	D	eep knowledge	<u>.</u>	
Confusing				and is clea			of problem	100% c	lear
1	2	3	4	5	6	7	8	9	10
						Total mult	iplied by 2 =		
3. Creativity	- Does the sol	ution atten	npt to solve	e the proble	em in a nov		.pca 2 / _		
							_		
Basic solution		ght modifica n current sta		New N Iution	lew and it ma a lot of sen			tremely now dge and con	
1	2	3	4	5	6	7	8	9	10
4. Simplicity	How practice	al is the sel	ution as it	nortains to	the and us	or?	Total =		
4. Simplicity	- now practice	ai is the soi		Elegant and v		CI :			
Very complicat	ed			easy to ado	•				
1	2	3	4	5					
							Total =		
5. <b>Value</b> - Ho	w large is the	market po	tential and	or human	impact?		Total –		
Low \$ not ma	=	·		or >100M	-				
1	2	3	4	5					
							Total =		
6. How likely	are you to red	commend t	this produc	t to a collea	ague?		i otai –		
1	2	3	4	5	6	7	8	9	10
							Total -		
7. What % of your investable income would you spend on this solution?									
0	10%	25%	50%	75%	100%	-			
1	2	3	4	5	6				
							Total =		
							TOTAL -		
							Grand Total =		
							Jianu 10tal =		

### Addendum B Judges

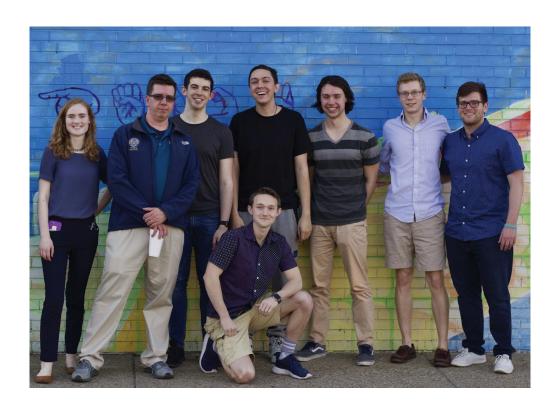
Name	Organization	Title/Expertise		
Al L'Altrelli, PharmD	UPMC	Pharmacy Administrative Director of UPMC Presbyterian-Shadyside, Presbyterian Campus		
Arjun Hattiangadi	UPMC Enterprises	Director, Healthcare Portfolio Development and Management		
Arup Mukherjee	Honeywell Vocollect	Technical Project Lead		
Brian Bobby, PharmD	Novartis	Pharmacy Consultant, MSL		
Daniel Mosse, PhD	University of Pittsburgh	Computer Science Professor and Researcher		
Gregory Shevchenko	UPMC Enterprises	Principal Architect		
Hashim Al Hassan, PhD	Switched Source	Applications Engineer		
Kelly Bobby, PharmD	MaxorPlus, Ltd.	Clinical Pharmacist		
Marc Tata	DePuy Synthes Companies	Spine Sales Consultant		
Marijanel Alilo, PharmD	UPMC	Hospital Pharmacy		
Philip Empey, PharmD PhD	University of Pittsburgh, School of Pharmacy	Associate Director, Institute of Precision Medicine; Pharmacy and Therapeutics		
Prachi Joshi	Clinical Translational Science Institute	Translational Research, Medical Product Development		
Raja Sooriamurthi, PhD	Carnegie Mellon University	Computer Science		
Thomas D. Nolin, PharmD, PhD	University of Pittsburgh, School of Pharmacy	Associate Professor and Researcher		
Tyler Hoffman, PharmD	UPMC	Pharmacy Administrative Fellow of UPMC Presbyterian-Shadyside, Presbyterian Campus		

### Addendum C Mentors

Name	Organization	Title/Expertise
Dave Krebs	PQS	Computer Engineering
Jean Nickleach	UPMC	Dietitian
Jessi Trybus	Sim Coach Games	Chief Games Office
Jill Lavella, PharmD	Value Drug	Retail Pharmacist
John DeJames, PharmD	Value Drug	Pharmacy Strategy Consultant
John Maier, PhD MD	CTSI	Director of Research and Development, Co-Director of Innovation Core for CTSI
John Rice	<b>UPMC</b> Enterprises	Software/Hardware Engineer
Keith Callenberg, PhD	UPMC Enterprises	Director of Machine Learning
Pat Lavella, PharmD	Value Drug	Pharmacy Strategy Consultant
Randall Smith, PharmD	Pitt Pharmacy	Associate Dean, Pitt Pharmacy
Ross Beresford	Pitt SciVelo	Early stage physical medical device and gene therapy development
Tony Kolp	Epic	Software Developer
Tricia Pil, MD	Gateway Health Plan	Pediatrician, Medical Director
Weiyu Zhang	Epic	Software Engineer
Zariel Johnson, PhD	UPMC Enterprises	Program Manager – Early Stage Digital Health Innovation

### Sponsorship Pitt Challenge 2019

## If you are interested in sponsoring the 2020 Pitt Challenge, please contact pittchallenge@pitt.edu



The Pitt Challenge's success is in part due to the large support of our sponsors. A special thank you to: University of Pittsburgh School of Pharmacy, Pitt CTSI, UPMC Health Plan, UPMC Enterprises, Google, Microsoft, Epic, GNC, Thirty/Three Foundation, The Pittsburgh Penguins Foundation, EMBRACE Pittsburgh, CORE, and Value Drug Company.







UPMC HEALTH PLAN











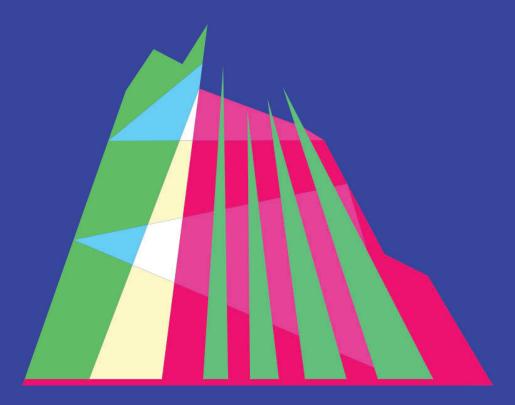












Pitt Challenge 2019

**Our Mission** Expedite healthcare innovation through experience and network

**Our Vision** A world where healthcare is a leading industry in technology innovation

