USF I-Corps Teams: Fall 2022 Cohort



Augmented Realty Interactive Smart eBook





Mr. Jiaxuan Lyn



Dr. Hong Huang

Founder of two start-up I-tech companies
Editor for Journal of Information and
Learning Sciences
Interdisciplinary backgrounds: specialties
in Biochemistry, Genetics, Computer

Expertise: 3D modeling, Animation,Computer Programming

Roles: Augmented Realty Data modeling

PI: Hong Huang, Ph.D. / College of Arts & Sciences / Tampa

science, Game based learning

EL: Jiaxuan Lyu / USF Student / Tampa

Team 2: Disposable Echem-Nose



Disposable Electrochemical Nose (Echem-Nose)

PI: Arash Takshi, PhD (Associate Professor, EE department)



- # interviews: 12 F2f interviews: 11
- Phone interview: 1

Leader: Mohammad Shakhawat Hossain (PhD student, EE department)



Team 02 University of South Florida

12

- PI: Arash Takshi, Ph.D. / College of Engineering / Tampa
- EL: Mohammad Shakhawat Hossain / USF Graduate Student / Tampa

2022 Fall cohort of USF I-CORPS Fellows

Team #3 – Lone Wolf Wound Control

FINAL PRESENTATION on the topic of: Chitosan based antimicrobial and antiviral hemostatic wound dressings, granules, and powders for emergency wound biomedical needs.

Total Number of Interviews Conducted during the Discovery Process = 21







Dr. Clifford Merz, PI, EL, M

USF College of Marine Science St. Petersburg, Florida 33701 Office: (727) 553-3729/Mobile: (727) 409-0770

November 14, 2022

PI: Clifford Merz, Ph.D. / College of Marine Science / St. Petersburg

Team 4. CampusFolio Assessment System



- Higher Education institutions around the world are required to use an assessment system to collect and analyze candidate assessment data for program improvement and accreditation purposes.
- CampusFolio is an online platform to simplify and automate institutional assessment for accreditation.





- PI: Zafer Unal, Ph.D. / College of Education / St. Petersburg
- EL: Darran Town / College of Education / Tampa
- EL: Andrew Warchol / College of Education / Tampa

Team 5: Probiotic Yogurt Drink

Customer interview:36

TEAM#5 PROBIOTIC YOGURT DRINK



Shalini Jain, PhD **Entrepreneurial Lead** Neurosurgery and Brain Repair **Expertise: Probiotics**



Hariom Yadav, PhD Principal Investigator Center for Microbiome Research Expertise: Microbiome



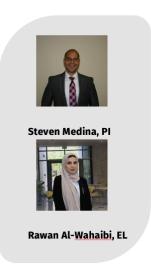
- PI: Hariom Yadav, Ph.D. / Morsani College of Medicine / Tampa
- EL: Shalini Jain, Ph.D. / Morsani College of Medicine / Tampa

RISE©

- Wellbeing intervention **developed specifically for** nurses to address the harmful effects of burnout and stress
- **The goal** is to foster hope and healing, promote selfcare, build social connection, and reduce symptoms of stress/burnout
- Psychoeducational group involves learning, self-reflection, skill development, and peer support
- Focuses on the RISE© themes (Resilience, Insight, Self-Compassion, and Empowerment)
- **RISE**© has been studied in a randomized controlled trial, showing positive results.



RISE©





An evidence-supported stress and burnout intervention for nurses

Total Interviews: 25

- PI: Steven Medina / AdventHealth Research Institute / Community
- EL: Rawan Al-Wahaibi / USF Graduate Student / Tampa

Team 7: Wearable Sensori-Motor Integrator (WSMI)





- PI: Stephanie Carey, Ph.D. / College of Engineering / Tampa
- EL: Ryan Austin / USF Graduate Student / Tampa
- M: David Charlot, Ph.D. / Community





- PI: Nancy Diaz-Elsayed, Ph.D. / College of Engineering / Tampa
- EL: Purvee Bhatia / USF Graduate Student / Tampa