

## Bioengineering Day

2020

Number of presentations = **19**

**Boldfaced** names represent Bioengineering undergraduate students

*Self-LVAD Patient Doppler Blood Pressure Monitoring Device*

**Nikita Patel, Alexandra Tompkins, Grace Hobayan, and Patrick Iyasele**

*Depth-Perception Module with Direct Feedback for Laparoscopic Skills Training*

**Hannah Liu, Judy Liang, Muyun Zhao, and Nithya Narayanan**

*Inspirometer: Using Bubbles to Improve Pediatric Care Outcome*

**Gordon Bryson, Larissa Fordyce, Natasha Gilbert, Claire Kraft, Valerie O'Loughlin, and Grace Varughese**

*Nurse-Assistive Patient Turning Device to Monitor Bedsores*

**Christine Heisler, Patrick Bohse, Haiden McDonald, Julie Constantinescu, and Jordan Cobb**

*Reinforced Local Anesthetic Needle Sleeve*

**Pegah Zarandi, Pavitra Velan, Jack Hastings, Paul Movizzo, and Richard Brigandi**

*Head-Drop Support Device for ALS Patients*

**Natalie Greenlee, Jocelyn Hawk, Katherine Rohde, Matt Saich, and Danielle Stark**

*Independent Transfer Tool for Wheelchair-Bound Patients*

**Haarika Chalasani, Anish Puligilla, Hannah Schmidt, Yousif Shwetar, McKenzie Sicke, and Will Kranz**

*unIVersal: Improving Patient Mobility Post-Surgery*

**Michael Clancy, Srujan Dadi, Shannon Kudlaweic, Nathan Lingenfelter, Xhoni Pashaj, Vatsal Patel, and Susan Walborn**

*Patient Specific Endovascular Simulator*

**Liam Martin, Elliott Hammersley, Maddie Johnson, Cassie Smith, and Sara Kenes**

*Sharps Disposal Device for Under-Resourced Communities*

Nicole Charache, **Emma Chen, Katherine Dunkelberger, Kristopher Keppel, Maxwell Lohss, and Danesh Thirukumaran**

*Estimating Blood Loss During Surgery Using Optical Probing*

**Zachary Fritts, Conrad Li, Aaron McVaugh, Megha Murthy, and Matthew Rosenblatt**

*Neonatal Warmer for Transportation in Developing Countries*

**Ashley Martier, Vivian Hu, Meredith Lie-Atjam, Jocelyn Baker, and Liang Xue**

*BendRite: Surgical Suction Tube Bender*

**Janet Canady, Lauren Grice, Tingjun Hao, Nishita Muppidi, Jessica Guan, Kaitlin Perugini, and Carl Snyderman**

*DAPHNE: Dynamic & Accessible Postpartum Hemorrhage Education*

**Tyler Bray, Jessica Brown, Marlo Garrison, Madeline Hobbs, Ally McDonald, Jacob Meadows**

*Biaxial Mechanical Testing of Interweaving and Non-Interweaving Fibers*

**Anish Puligilla, Yi Hua, and Ian Sigal**

*Single-User Universal Navigator for Inside-Out Meniscus Repair*

**Rey Ravi, Peter Gibson, Michael Kassabian, Shumeng Yang, and Timothy Snyder**

*Muscle Function as An Index to Measure Peripheral Nerve Regeneration Induced By An Extracellular Matrix Based Hydrogel*

**Valeria Tupac Yupanqui, Tyler Meder, Lucile Marchal, Travis Prest, Clint Skillen, and Bryan Brown**

*Tumor-Derived Exosomes from HCT116 Human Colorectal Cells Contain SQSTM-1 And Promote A Tolerogenic Response In Co-Cultured Dendritic Cells*

**Rosh Bharthi, Carolina Gorgulho, Nils Ludwig, Theresa Whiteside, and Michael Lotze**

*Mechanical Characterization of Silk Derived Vascular Grafts for Human Arterial Implantation*

**Patrick Iyasele, Eoghan Cunnane, Katherine Lorentz, Justin Weinbaum, and David Vorp**