

The Jacobs Institute Newsletter

A Dose of Medical Innovation

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Past Interns: Where Are They Now?

MOVING UP IN INDUSTRY, ACADEMIA, AND THE JI



Karen Meess & Drew Lang

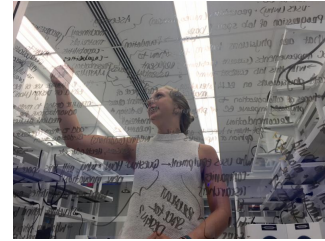
As the JI selects its summer interns for the seventh year of the program, it has much to celebrate: the interns, themselves! Since 2013, the summer internship has evolved from a virtually unknown, aspiring program into a coveted, hands-on project management experience and networking opportunity for rising juniors, seniors, and graduate students. A handful of applicants in the program's early years has burgeoned to more than 40 applicants in 2019, for three slots. JI has hosted over 20 interns since the program's inception.

What happens to a JI intern once the internship is over? They are forever a part of the JI team. The JI works hard to maintain strong relationships with these enthusiastic ambassadors, connecting with them through newsletters and social media. The JI is pleased to share updates on our

past interns.

INTERNS TO EMPLOYEES

Perhaps the greatest benefit of the internship program is seeing an intern's potential for future employment at the JI. Past interns have a deep understanding of the JI's mission and vision, while bringing fresh ideas to the table. Karen Meess (2013), Jill Senko (2016), and Matt Donovan (2017) are currently working at the JI in the engineering department. Both Karen and Jill are concurrently pursuing their master's degrees in biomedical engineering at University at Buffalo (UB). Ryan Hubbell (2015, 2016) graduated UB with his masters in biomedical engineering and was employed at the JI, before moving over to 43North semi-finalist Circuit Clinical in the role of growth lead.



Jill Senko

INTO THE CORPORATE WORLD

Many of our interns have moved on to advance degrees, followed by medical technology industry experience. Erin McConnaghy (2014) graduated from Worcester Polytechnic Institute and received her master's from Cornell University. She joined Biomedical Innovations in Colorado Springs, CO, as design engineer II. Patrick Siaw-Asamoah (2014) graduated from Harvard and is a strategic product management analyst at BlackRock, a global investment management corporation based in New York City.

Drew Lang (2014) graduated from Pennsylvania State University and pursued entrepreneurship. He started his own business, Omega Notes, which is a collegiate learning services company based in State College, PA. Faculty and universities are adopting Omega Notes, so Drew hired a second employee with more hires on the way. Tynan Couture-Rashid (2014) joined us when he was still at St. Anne's School. He is graduating from Brown University this spring and starting as a software engineer at Bloomberg LP in New York City. Tynan aims to return to biotechnology or healthcare technology.

Since her 2015 internship, Emily Ludwig received her undergraduate degree from Case Western University and will graduate in April from the University of Pittsburgh with a dual MBA and master's degree in bioengineering. She accepted an engineering position at Medtronic in the surgical innovations group located in North Haven, CT. Emily previously interned with Medtronic last summer in Minneapolis, MN, with the endoVenous group.



Adam Killeen & Dr. Evan Winograd

Adam Killeen (2016) graduates Purdue University's biomedical engineering program in May, and has accepted a full-time position as biomedical studies engineer on Apple's Health Technologies team in Cupertino, CA. Following his 2016 internship, Jake Caldwell received his undergraduate degree from UB and master's degree in biomedical engineering from Johns Hopkins University. He is currently based in Warsaw, IN, as part of a two-year rotational R&D leadership development program at DePuy-Synthes, the orthopedics division of Johnson & Johnson. The next rotation will move Jake to Cork, Ireland, working on supply chain.

BACK ON THE MEDICAL CAMPUS

Two of our interns made their way back to the Buffalo Niagara Medical Campus. Noah Horan (2016) is in the master's program at Roswell Park Comprehensive Cancer Center (RPCC), and plans to join the PhD program for tumor immunology. Maya Reed McDaniel (2018) leveraged her internship project to continue working with Dr. Tom Furlani for several months at UB's Center for Computational Research, under a grant,

building upon her data analytics project examining publicly available stroke data. She is now at RPCC as a programmer analyst trainee, doing data science, some cloud computing, and web development.

Liam Christie & Maya McDaniel



ACADEMIC PURSUITS

Several of the interns are completing degrees or entering new academic ventures. Jackie Kim (2014) finishes her first year at the UB School of Dental Medicine, planning to become a general dentist upon graduation. Tessa Ooyama (2017) graduated UB and is graduating Cornell University with a master's in biomedical engineering this May. Brett Bosinski (2017) graduated UB and is finishing his first year in the direct PhD program in the Electrical and Computer Engineering Department at Purdue University. He is a National GEM Consortium Associate Fellow and was awarded the Sloan Fellowship.



Brett Bosinski, Matt Donovan & Tessa Ooyama

Kristen Benson (2018) graduates UB with a biomedical engineering degree this May, and is staying to pursue her MBA. Rachel Loecher (2018) is graduating with an MBA in healthcare management from UB this May. David Maher (2018) graduates UB and will attend Johns Hopkins University to pursue a master's degree in bioengineering innovation and design. Tom Mancuso (2018) is finishing his junior year at The Ohio State University, studying biomedical engineering with a focus on biomaterials. Liam Christie (2018) is finishing his junior year at UB and is doing a co-op with Moog Inc. this summer, in the space and defense division. He recently had his research on facial-identification biometrics accepted as a first author paper to the 2019 NanoTech conference.

AN INTERNSHIP PROGRAM UNLIKE ANY OTHER

The JI continues to strongly recruit students for the 9-week summer internship, particularly from UB, reaching out to various academic department heads, posting to UB's career and internship sites, and hosting a booth at UB's annual STEM UP Career Fair.



Kristen

Benson

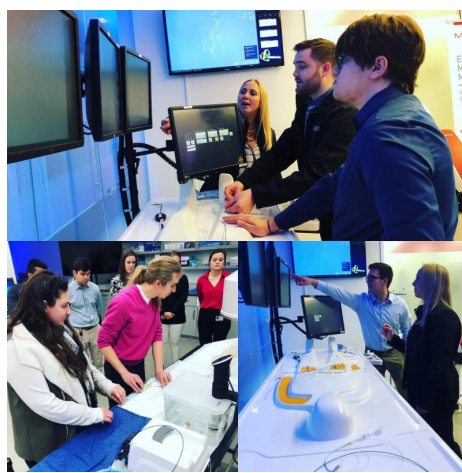
Most of our interns are biomedical engineers, but the JI expanded its internship offerings in 2017 to also include business management, communications, and computer science.

If you are interested in applying for next summer, or know a student interested in applying for next summer 2020, please visit our website at <https://jacobsinstitute.org/programs-services/internships/> to learn more about the summer internship unlike any other.

Hosting UB Jacobs School of Medicine Students

Helping Students Understand Careers in Neurosurgery

Medical students from the Jacobs School of Medicine and Biomedical Sciences, who are aspiring to be neurosurgeons, ventured into the JI in February for an informative and hands-on experience. Twelve students heard from Pam Marcucci, assistant vice president, Corporate Development, Communications & Training, who shared the JI's mission to accelerate the development of vascular medical devices to improve treatment of heart attacks and strokes.



The students also listened to Dr. Matthew McPheeters, a neurosurgical resident, discuss his endowed neuroendovascular fellowship with University at Buffalo Neurosurgery (UBNS). Dr. McPheeters talked about the reasons he had for choosing neurosurgery and the neuroendovascular fellowship.

The medical students then toured the JI and learned more about vascular medical simulation. The JI is home to a Mentice endovascular simulator, designed to provide a safe, computer-based environment to practice performing a vascular procedure without touching a real patient. Students tried to perform a minimally invasive procedure to retrieve a clot from inside a brain blood vessel, which was causing a stroke in the simulated "patient". Next, students tried to use the same kinds of vascular medical devices used in actual procedures inside one of the JI's signature 3D printed models of brain blood vessels. This gave students a hands-on experience using the same tools as a catheterization laboratory.

The JI believes it is important to work with the Jacobs School to inspire and educate the next generation of physicians, particularly in the area of neurosurgery.

The Jacobs Institute mission is to accelerate the development of next-generation technologies in vascular medicine through collisions of physicians, engineers, entrepreneurs, and industry.

Our vision is to improve the treatment of vascular disease in Western New York and the world, while fostering local economic development, and honoring the memory of Lawrence D. Jacobs, MD.

Located in the heart of the Buffalo Niagara Medical Campus (BNMC) in downtown Buffalo, the Jacobs Institute is positioned between University at Buffalo's Clinical and Translational Research Center (CTRC) and Kaleida Health's Gates Vascular Institute (GVI).



The JI is uniquely positioned to foster collaboration of our key partners. We have the right people in the right place at the right time.

Come innovate with us.

Please visit [the JI web site](#)

Sincerely, The Jacobs Institute

