

STANFORD BIO-X FELLOWS SYMPOSIUM

OCTOBER 29, 2019
JAMES H. CLARK CENTER
10:00AM-1:00PM



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10:00AM

Introduction

Carla Shatz, Sapp Family Provostial Professor, Professor of Biology and Neurobiology, and David Starr Jordan Director of Stanford Bio-X



CARLA SHATZ

10:10AM

Personal Brand in Science and Industry

Chris Emig, Stanford Bio-X Bowes Fellow, awarded in 2011: current CEO of Augmenta Bioworks, Inc. and scientific advisor to Chimera Bio

Mentor: Steven Quake (Bioengineering and Applied Physics)

Abstract: Who are you? What value do you provide? How do you want to be perceived by the world? And why does it matter?



CHRIS EMIG

10:30AM

Investigating the Behavioral and Neural Features in Parkinson's Patients Experiencing Impaired Walking

Johanna O'Day, Stanford Bio-X Bowes Fellow, awarded in 2017: PhD Candidate in Bioengineering

Mentors: Scott Delp (Bioengineering, Mechanical Engineering) and Helen Bronte-Stewart (Neurology & Neurological Sciences)

Abstract: Working together with the Bronte-Stewart and Delp Labs, Johanna has been investigating the kinematic and neural features that lead to impaired walking experienced by people with Parkinson's disease. People with Parkinson's often experience a range of walking impairments and "freezing behavior", which includes slow walking, shuffling, and arrhythmic walking marked by uneven stepping. Often they will also feel like their feet are stuck to the ground, and they cannot continue forward, which is known as a freezing of gait episode. These impairments lead to falls, injury, and a decreased quality of life. Using wearable inertial sensors that can capture human movement in real time, together with an implanted neurostimulator that can both stimulate and record from the affected brain region, Johanna has been able to record activity from the brain and body during impaired walking. With this information, she hopes to design better therapies for people with Parkinson's disease that alleviate their symptoms and improve their walking.



JOHANNA O'DAY

10:50AM

One-Minute Introductions of Stanford Bio-X Fellows

11:30AM

Poster Session and Lunch Clark Center Courtyard



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PHONE CAMERA FOR
DIGITAL VERSION

