



Guest Lecture

Temiloluwa Prioleau

**Enabling Data-driven Healthcare
with Pervasive Technology:
The Digital SMD Project**

Tuesday, March 17, 2020, 1:30pm - 2:00pm, this lecture is part of
a webinar on Diabetes & Technology Management

www.c4dhi.org/webinar

About Temiloluwa Prioleau

Dr. Prioleau is an assistant professor in computer science at Dartmouth College. She is a co-director of the Augmented Health Lab, DartNets Lab, and an affiliate of the Center for Technology and Behavioral Health (CTBH). Her research interest is on the application of data science to human sensing and health with a focus on ways in which pervasive technology can be leveraged to improve well-being and quality of life. Her current and prior projects involve developing and using mobile, wearable, and digital solutions to understand, monitor, and affect bio-behavioral factors that influence health. She has published several peer-reviewed research papers and serves as a referee at top venues such as ACM Transactions of Computing for Healthcare and ACM Interactive Mobile, Wearable and Ubiquitous Technologies (IMWUT). Before joining Dartmouth, she was a postdoctoral fellow in the Scalable Health Lab at Rice University. She received her bachelor's, master's and Ph.D. all in Electrical Engineering from The University of Texas at Austin and Georgia Institute of Technology, respectively. In her leisure time, she enjoys spending time with her family, she also loves to travel and experience the culture of new places.

For more information, see www.t-prioleau.com.

About the Lecture

The presence of pervasive technology such as mobile and wearable devices makes such platforms an invaluable resource for sensing, understanding, and supporting health. Pervasive technology is useful in many application domains; one of particular interest is diabetes – a prevalent chronic condition associated with impaired glucose metabolism. Diabetes care has significantly benefited from revolutionary wearable medical devices such as continuous glucose monitors and insulin pumps which support real-time tracking and management of blood glucose levels. This talk will present a research project – Digital SMD – focused on developing digital tools for improved self-management of diabetes. Efforts on this project include user-studies to understand needs that data-centric solutions can meet, analysis of patient data to elucidate the effect of behavioral choices on management outcomes, and computational algorithms for knowledge discovery from longitudinal diabetes data. This work is a launchpad to enable data-driven healthcare, for diabetes and other chronic conditions, with pervasive technology.

We invite you to join this guest lecture. Registration is not required.

Prof. Dr. Tobias Kowatsch

Assistant Professor for Digital Health, University of St.Gallen (HSG)
Director, Center for Digital Health Interventions (CDHI), ETH Zürich & HSG

Prof. David Kotz, PhD

International Paper Professor, Dartmouth College
Visiting Professor CDHI, ETH Zürich

Prof. Dr. Elgar Fleisch

Professor of Information Management, ETH Zürich
Professor of Technology Management, HSG

Prof. Dr. Florian von Wangenheim

Professor of Technology Marketing, ETH Zürich