

CHOT AT PENN STATE NEWSLETTER

JANUARY 2017

NILAM RAM ANNOUNCED AS PENN STATE CHOT CO-PI



Nilam Ram, Associate Professor of Human Development and Psychology has accepted the role as Co-Principal Investigator for Penn State CHOT. The Co-Principal Investigator is recognized as a colleague who is making a significant contribution to CHOT. The Co-PI shares with the PI the responsibility for the conduct of Penn State CHOT research projects.

Ram was the recipient of the 2016 Penn State Graduate Faculty Teaching Award and is director of QuantDev, a core of methodologists and data analysts who bring together a wide range of university talent to develop and support innovations in data collection and analysis in the social sciences at Penn State. This new partnership expands the ways CHOT contributes to advancements in knowledge.

ARRIVAL OF THE PENN STATE CHOT NVIDIA DGX-1 SUPERCOMPUTER

CHOT at Penn State is thrilled to announce the arrival of the NVIDIA DGX-1 Supercomputer. This powerful system will be used for healthcare data analytics, image processing and other computationally-intensive aspects related to CHOT research.



The NVIDIA DGX-1 is the world's first purpose-built system for deep learning, delivering performance equal to 250 conventional servers. Users can immediately shorten data processing time, visualize more data, accelerate deep learning frameworks, and design more sophisticated neural networks. At Penn State CHOT we are excited about the possibilities for more innovative research as a result of this supercomputer's computing capacity.



CHOT COLLABORATOR'S ARTICLE ACCEPTED FOR PUBLICATION

Sunghoon Lim, Phd candidate in industrial engineering and CHOT scholar, and Conrad Tucker, assistant professor of engineering design and industrial engineering, and director of the Penn State site of NSF CHOT, recently had an article accepted for publication. The collaborative work, "An unsupervised machine learning model for discovering latent infectious diseases using social media data" will be published in an upcoming issue of Elsevier's *Journal of Biomedical Informatics*.

Lim and Tucker's work on this research are part of Penn State CHOT's strong history of working collaboratively across multiple units, engaging health care providers as partners in applied research, and working closely with students to address research needs of the relevant industry partners.