



## Increasing students' awareness of diversity, equity, and inclusion through a random signals and noise class

## Dr. Ying Yu, University of Hartford

Dr. Ying Yu received her B.Eng. from Fudan University, Shanghai, China. She received her M.S. and Ph.D. in Electrical Engineering from Brown University, R.I., USA. Currently, she is an associate professor of the Department of Electrical and Computer at University of Hartford.

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Introduction: ABET proposed an optional pilot general criteria regarding curriculum for accrediting engineering programs, requiring all engineering programs to include curriculum content that ensures awareness of diversity, equity, and inclusion for professional practice consistent with the institution's mission.

Darker male

Lighter male

Kairos

Amazon

Lighter female

Example 1: For discussions on topics related to joint and Example 2: For discussions on topics related to marginal probability, and equity issues in Al technology -"Racial Discrimination in Face Recognition Tech"

https://sitn.hms.harvard.edu/flash/2020/racial-discrimination-in-face-recognition-technology/ http://gendershades.org/overview.html

The Gender Shades project evaluates the accuracy of AI powered gender classification products. This evaluation focuses on gender classification as a motivating example to show the need for increased transparency in the performance of any AI products and services that focused on Gender Shades human subjects. Bias in this context is defined as having practical differences in gender classification error rates between groups. Accuracy of Face Recognition Technologies 31.4% 22.5% 20.8% 34.4% 100-Darker female 8

Microsoft

Face++

**IBM** 

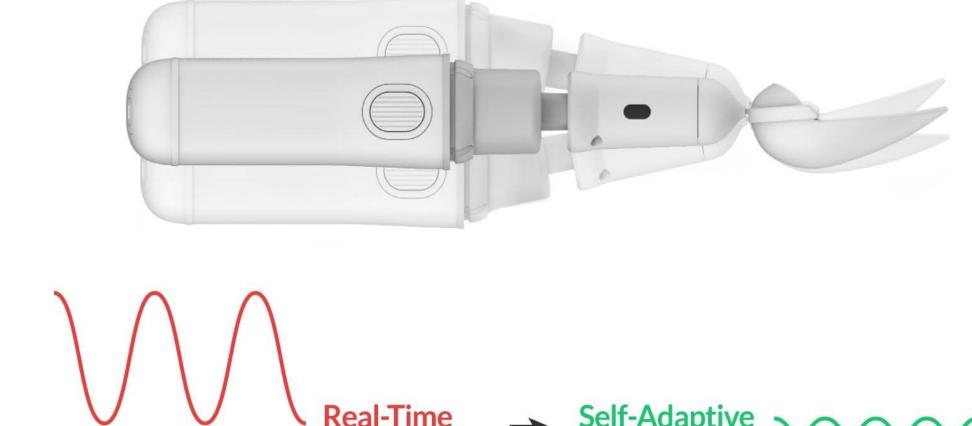
Face Recognition Technology

statistical analysis in digital health and experimental design for better inclusion –"Devices that help people with hand tremor"

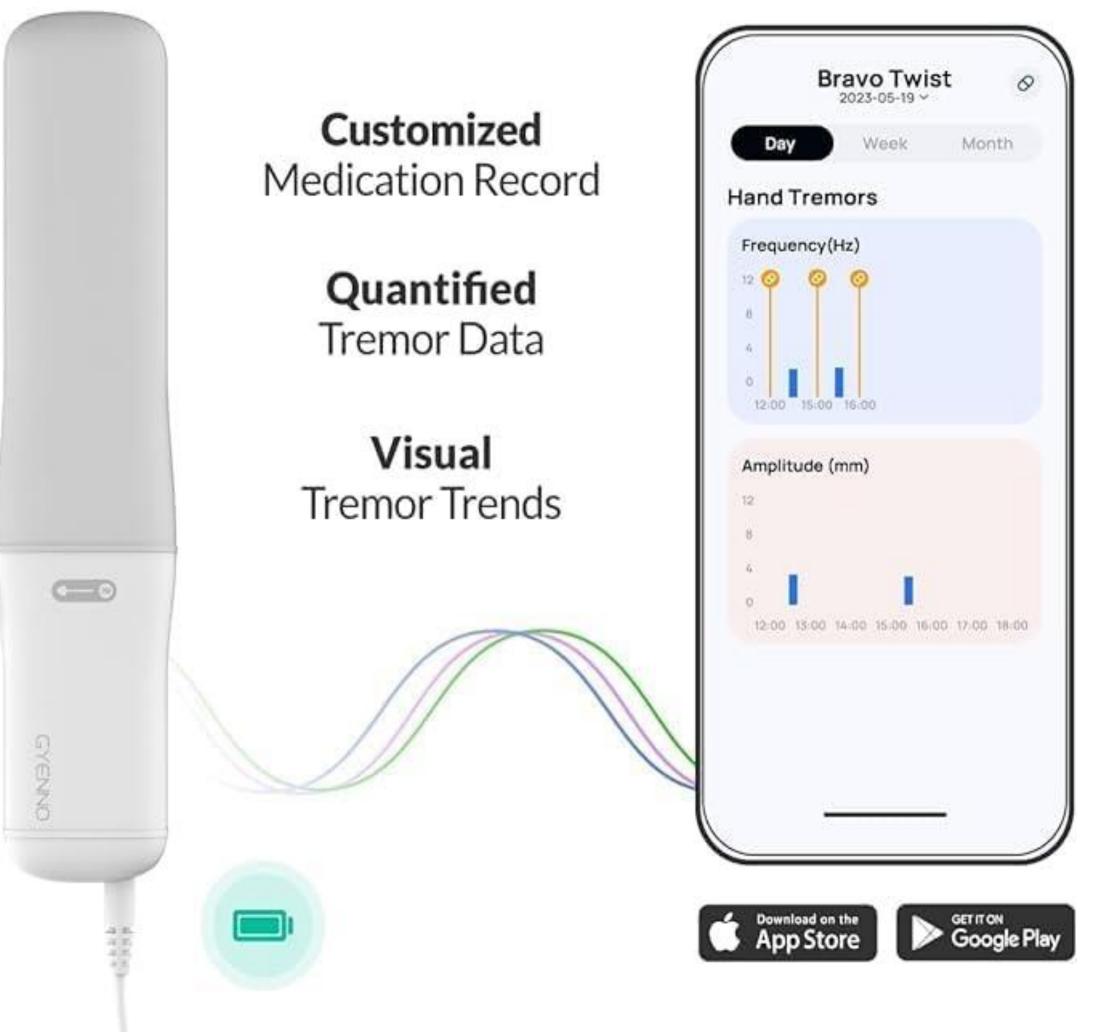
www.gyenno.com

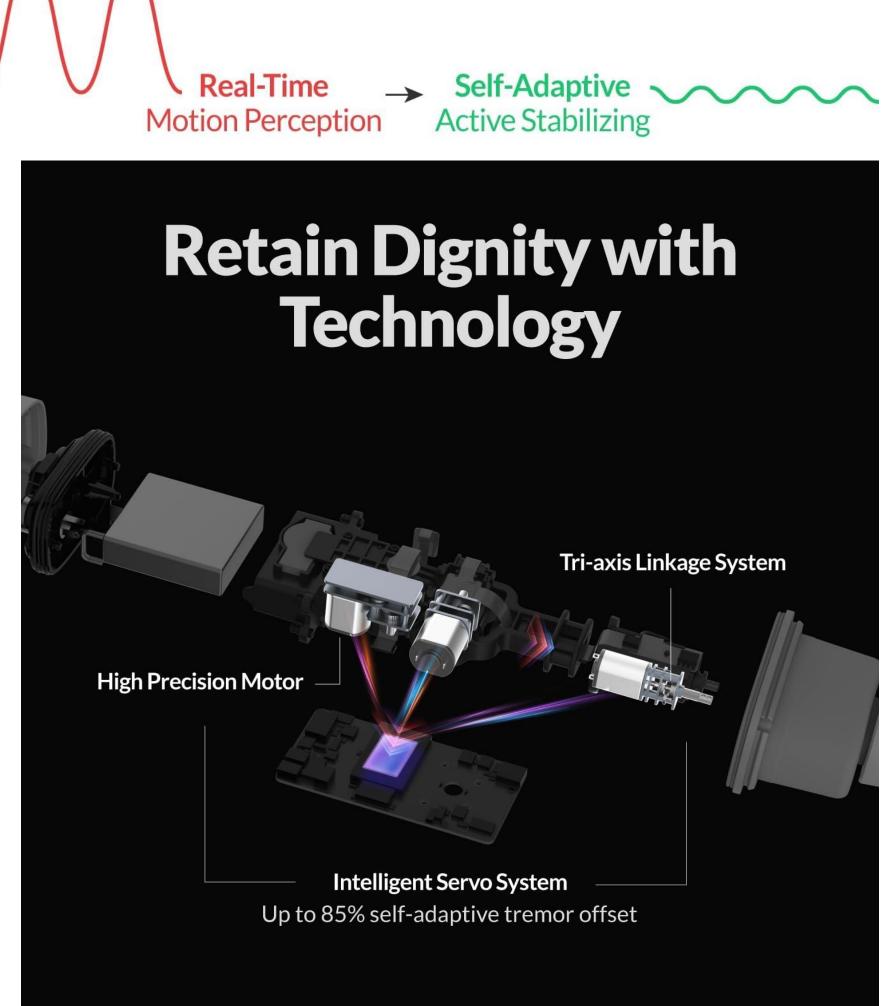
https://www.amazon.com/GYENNO-Parkinson-Spoon-Fork-**Incredible Tremor** 

Set/dp/B0CNP63NJM



Assistance





## **Know You Better** than Yourself