
Computing and Mental Health: Digital Phenotypes

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Current and Future Work

I am a health informatics researcher interested in how brain health affects interactions with technology. My background is in computer science, human-computer interaction and information systems, with specific education applying that expertise to the health field. I examine how changes in everyday mobile technology interaction patterns reflect change in cognition to develop digital phenotypes [1] of Mild Cognitive Impairment using typing patterns and language [2]. I am looking to branch into mental health monitoring using passive and active data from mobile device interactions. Data might include typing as well as pressure, gaze, and accelerometer characteristics, just to name a few. I would love to connect with anyone with similar interests or research. I am a fairly new investigator looking for collaborators and welcome others' insights. I am also recruiting mental health providers for a short interview study about apps. Find me if you or a colleague might be interested!

1. Thomas R. Insel. 2017. Digital Phenotyping: Technology for a New Science of Behavior. *JAMA* 318, 13: 1215-1216. <http://dx.doi.org/10.1001/jama.2017.11295>.
2. Lisa M. Vizer, Andrew Sears. 2015. Classifying Text-Based Computer Interactions for Health Monitoring. *IEEE Pervasive Comput.* 14, 4: 64-71. <http://dx.doi.org/10.1109/MPRV.2015.85>.