

TIMOTHY P. TRUTY

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ABOUT ME

I am an experienced Alzheimer's disease and aging research specialist focused on the use of novel devices and technology to advance research.

PROFESSIONAL EXPERIENCE:

Project Coordinator

Rush Alzheimer's Disease Research Center, January 2017 – Present

- Coordinates research project data acquisition, using novel approaches and devices to facilitate data transfer and analysis
- Designs, develops, and deploys research software applications
- Creates and implements data visualization and data automation techniques
- Creates research solutions using digital systems and devices
- Designs protocols for extracting research device data
- Works with a diverse team of engineers, statisticians, and doctors to develop new methods for acquiring data and digitizing research
- Manipulates and analyzes human mobility and gait motor function data and metrics
- Runs recruitment, consenting, and installation of mesh network smart home research

Research Assistant

Rush Alzheimer's Disease Research Center, June 2011 – January 2017

- Administered cognitive test battery and health questionnaires, code data, facilitated MRI brain scans with diverse aging population in a epidemiological research study
- Entered, processed, and cleaned interview data
- Ran scheduling and consenting of participants in a longitudinal epidemiological research study
- Worked closely with Alzheimer's sufferers, low functioning individuals, and family/caregivers

VOLUNTEER EXPERIENCE:

Volunteer Activity Leader

Oak Park Arms, December 2015 - September 2018

- Presented and taught digital entertainment to senior residents
- Facilitated classes to introduce new technology for senior activities including: video games, exer-games, digital communication, virtual reality
- Taught senior computer literacy classes
- Created and manipulated peripheral gaming devices to ease learning and playing of video games
- Lead, managed, and taught other volunteers

SKILLS

- Digital Systems
- Effectively communicating research finding
- Teaching new technology to aging individuals
- Data Acquisition
- Research devices
- Image Processing
- Data QA/QC

DEVELOPMENT EXPERIENCE

- Python
- JAVA
- SQL
- Arduino/Raspberry Pi Dev
- Unity
- MATLAB
- C#
- Android App Development
- Microsoft Kinect SDK

EDUCATION

Illinois State University, 2006 -2010

Bachelor's of Science in Psychology, Minor in Gerontology

Illinois Institute of Technology, 2018 - Present (Expected 2020)

Master's of ITM, Applied Technology, Focus of Digital Systems and Embedded Technology

OTHER AWARDS & CERTIFICATIONS

- Rush Alzheimer's Disease Center Outstanding Employee 2013